THE

OFFICIAL DIRECTORY

OF THE

WORLD'S COLUMBIAN EXPOSITION

May 1st to October 30th, 1893.

A REFERENCE BOOK

OF EXHIBITORS AND EXHIBITS;
OF THE OFFICERS AND MEMBERS OF THE WORLD'S
COLUMBIAN COMMISSION, THE WORLD'S COLUMBIAN EXPOSITION
AND THE BOARD OF LADY MANAGERS; A COMPLETE HISTORY OF THE EXPOSITION.
TOGETHER WITH ACCURATE DESCRIPTIONS OF ALL STATE, TERRITORIAL, FOREIGN, DEPARTMENTAL AND OTHER
BUILDINGS AND EXHIBITS, AND

GENERAL INFORMATION CONCERNING THE FAIR.

MOSES P. HANDY,
Chief of the Department of Publicity and Promotion,
EDITOR.

GOPIOUSLY ILLUSTRATED.

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When the United States Government took charge of the World's Columbian Exposition on the occasion of its dedication in October, 1892, a Board of Control was appointed to carry the great enterprise to a successful completion. This Board recognized at once the universal interest which was everywhere manifested in the undertaking and foresaw the necessity for providing a book of reference that would furnish the public with the information they were desirous of obtaining, which it was their right to have and the duty of the Exposition to furnish. Arrangements were accordingly made with that end in view and hence the present work.

The purpose has been to provide such data and information of a general kind as will enable any one to comprehend intelligently and in its fullness the greatest Exposition the world has ever known. Much care has been exercised in the preparation of the matter, so that it might be absolutely accurate, and in this connection the publishers are greatly indebted to the officials of the Exposition, the State Boards, State Commissioners, Lady Managers and Representatives of foreign countries.

Not only have the publishers fulfilled the conditions required by the government in furnishing the data and information required in such a work, but impelled by a sense of patriotism and pride, have gone further and illuminated its pages with the largest number of illustrations, executed in the highest style of art, that have graced the pages of any work of a like character.

It is believed that everybody, interested as they are in the World's Columbian Exposition, will hail The Official Directory with satisfaction and will look upon it as indispensable at this time, and that in years to come it will be referred to with pleasure and profit and will be found a valuable textbook and guide to any nation that in the future may conceive the plan or purpose of holding an exposition of a similar character and scope.

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<td>Otis Brothers &amp; Co., New York, N. Y.</td>
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<td>Horse Blankets. (“Stay-on.”)</td>
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<td>Burlington Blanket Co., Burlington, Wis.</td>
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<td>Horse Shoes.</td>
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<td>Rhode Island Perkins Horse Shoe Co., Providence, R. I.</td>
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<td><strong>Hotels.</strong></td>
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<td>Plankinton House, Milwaukee, Wis.</td>
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<td><strong>I</strong></td>
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<td>Incandescent Dynamos.</td>
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<td>The Ford-Washburn Storelectro Co., Cleveland, O.</td>
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<td><strong>Incandescent Lighting.</strong></td>
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<td>Fort Wayne Electric Co., Fort Wayne, Ind.</td>
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<td><strong>Injectors.</strong></td>
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<td>The Hancock Inspirator Co., Boston, Mass.</td>
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<td>Pemberthy Injector Co.</td>
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<td><strong>Insulated Wire and Cables.</strong></td>
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<td>Safety Insulated Wire and Cable Co., New York, N. Y.</td>
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<td>W. R. Brixey (Day’s Kerite), New York, N. Y.</td>
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<td>The India Rubber Comb Co.</td>
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<td><strong>Interior Decorations.</strong></td>
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<td>Spierling &amp; Linden, Chicago, Ill.</td>
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<td><strong>J</strong></td>
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<td>Jewelry and Jewelers (Manufacturing).</td>
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<tr>
<td>R. F. Simmons &amp; Co., Attleboro Falls, Mass.</td>
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<td>Kent &amp; Stanley Mfg Co., Providence, R. I.</td>
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<td>Foster &amp; Bailey, Providence, R. I.</td>
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<td>Pennsylvania Stock Co., Providence, R. I.</td>
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<td><strong>Jewelers Findings.</strong></td>
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<td>S. Moore &amp; Co., Providence, R. I.</td>
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<td><strong>Jack-Screws.</strong></td>
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<td>The Chapman Jack Co., Cleveland, O.</td>
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<td><strong>K</strong></td>
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<tr>
<td>Kneading and Mixing Machines.</td>
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<td>Werner &amp; Pfeiderer, Cannstall, Ger.</td>
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<td><strong>L</strong></td>
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<td>Lace Leather.</td>
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<td>Chas. A. Schieren &amp; Co., Chicago, Ill.</td>
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Laundry Machinery.
S. H. Sinclair Co., Chicago, Ill. 822
Troy Laundry Machinery Co., Ltd. 1010

Leather Belting.
Chas. A. Schieren & Co., Chicago, Ill. 692
Jewell Belting Co., Hartford, Conn. 469

Ledgers.
Theo. M. Brown, Cazenovia, Minn. 1010

Leggings and Overgaiters.
S. W. Hall, Chicago, Ill. 351

Life Insurance.
Metropolitan Life Insurance Co., New York, N. Y. 1004
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Phoenix Mutual Life Insurance Co., Hartford, Conn. 437
The Mutual Life Insurance Co. of New York, N. Y. 491

Locomotive Castings.
Bass Foundry and Machine Works, Fort-Wayne, Ind. 360-361

Lord's Boiler Compound.
G. W. Lord, Philadelphia, Pa. 5477

Machine Tools.
Beaman & Smith, Providence, R. I. 485
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The Billings & Spencer Co., Hartford, Conn. 469

Machinery (for Covering Electric Wires).
New England Butt Co., Providence, R. I. 680

Machinery (Laundry).
S. H. Sinclair Co., Chicago, Ill. 822
Troy Laundry Machinery Co., Ltd. 822

Machinists' Tools and Supplies.
The Machinists' Supply Co., Chicago, Ill. 485

Malleable Iron Castings.
The National Malleable Casting Co., Chicago, Ill. 775
S. J. Meeker, Newark, N. J. 813

Manufacturing Chemists.
Burroughs Wellcome Co., London, Eng. 682

Manufacturing and Importing Chemists.
The Reoessler & Hasslacher Chemical Co., New York 425

Mantels, Grates and Tiles.
Ehman & Simon M'T'g Co., Chicago. 351

Match and Match Box Machinery.
A. Roller, Machine Works, Berlin, Germany 474

Motors (Manufacturers of).
The Ford-Washburn Storelectro Co., Cleveland, O. 1003

Milk, Butter and Cheese Apparatus, Machinery and Supplies.
D. H. Burrell & Co., Little Falls, N. Y. 770

Mining Machinery.
Rand Drill Co., New York, N. Y. 1003
Union Iron Works, San Francisco, Cal. 778

Mineral Water.
John Morgan, New York, N. Y. 1004

N

Navy and Shipyard Machinery.
J. A. Fay & Egan Co., Cincinnati, O. 1118

Newspapers.
Times Mirror Co., Los Angeles, Calif. 438

O

Opera Chairs and Church Furniture.
Andrews-Demarest Seating Co., New York, N. Y. 821

Organs.
Chicago Cottage Organ Co., Chicago... 364, 873
Estey Organ Co., Brattleboro, Vt. 994

Over-gaiters and Leggings.
S. W. Hall, Chicago, Ill. 351

P

Paper Dealers.
George H. Taylor & Co., Chicago, Ill. 425

Paper Folding Machinery.
Chambers Brothers Co., Philadelphia, Pa. 1105

Paper Manufacturers.
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Photo Engravers.
F. A. Ringler & Co., New York, N. Y. 874

Piano (Manufacturers).
Chicago Cottage Organ Co., Chicago... 364, 873
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Planing Mill Machinery.
J. A. Fay & Egan Co., Cincinnati, O. 1118

Porcelain (Manufacturers).
Haviland & Co., New York, N. Y. 340

Pork and Beef Packers.
North Packing and Provision Co., Boston, Mass. 425

Portraits (Copying and Enlarging).
Acme Copying Co., Chicago, Ill. 871
Printed Cotton Goods.
Berlin Print Works, Philadelphia, Pa. 766
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W. B. Conkey Co., Chicago 222, 440, 687, 999
Printers Ink.
Queen City Printing Ink Co., Cincinnati 352
Printing Presses.
C. B. Cottrell & Sons, Chicago, Ill 773
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Pumping Engines.
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Pumping Machines.
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Pumps.
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R
Railroads.
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Louisville, New Albany & Chicago Ry. 638
New York Central & Hudson R. R. Co. 825
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Bradley Fertilizer Co., Boston Mass. 765
Rubber Goods.
C. J. Bailey & Co., Boston, Mass. 489
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Safes and Vaults.
American Vault, Safe and Lock Co., Chicago, Ill. 679
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Lincoln Park Sanitarium, Chicago 676
Sash, Door and Blind Machinery.
J. A. Fay & Egan Co., Cincinnati, Ohio 1118
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Henry Disston, Philadelphia, Pa. 483
Sheet Metal Workers' Machines and Tools.
Niagara Stamping and Tool Co., Buffalo, N. Y. 489
Saw Mill Machinery.
The Edward P. Allis Co., Milwaukee, Wis 450
Scales.
Fairbanks, Morse & Co., Chicago, Ill. 769
Seeds.
Henry Nungesser, New York, N. Y. 641
Ship and Engine Builders.
Union Iron Works, San Francisco 778
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Silver Plated Ware.
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Skin Rugs, Robes and Coats.
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Spoke and Wheel Machinery.
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Spring Manufacturers.
The Wm. D. Gibson Co., Chicago, Ill. 1006
Steam and Gas Fitters' Supplies.
Crane Co., Chicago, Ill. 486
Steel Manufacturers.
Cast Steel Works of Fried. Krupp, Essen, Germany 344
Straw Board Manufacturers.
American Straw Board Co., Chicago, Ill. 428
Street Cars.
Brownell Car Co., St. Louis, Mo. 777
Storage Batteries (Manufacturers of).
The Ford-Washburn Storelectro Co., Cleveland, Ohio 1003
Street Car Motors (Manufacturers of).
The Ford-Washburn Storelectro Co., Cleveland, Ohio 1003
Subscription Book Publishers.
W. B. Conkey Co., Chicago, Ill. 222, 440, 687, 999
Surface-Coated Papers.
Louis Dejonge & Co., New York, N. Y. 425
Surveyors' Instruments.
W. & L. E. Gurley, Troy, N. Y. 642
T
Technical School and College Machinery.
J. A. Fay & Egan Co., Cincinnati, O. 1118
Threshers.
C. Aultman & Co., Canton, Ohio 430
Toilet Articles and Novelties.
Joy & Seliger Co., Newark, N. J. 351
Toilet Requisites
E. L. Boggs, Charleston, W. Va. 1031

Tools and Supplies.

Type Founders.
Marder, Luse & Co., Chicago, Ill. 643

Typewriters.
Wyckoff, Seamans & Benedict (Remington), New York City 356
The Munson Typewriter Co. 1035

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Cleveland Twist Drill Co., Cleveland, Ohio 433
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U

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Varnish Makers.
The O'Brien Varnish Co., South Bend, Ind. 358

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Western Valve Co., Chicago, Ill. 358

Vehicles.
Elkhart Carriage & Harness Mfg. Co., Elkhart, Ind. 821

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Wall Paper.
Wm. Woolams & Co., London, Eng. 1010

Watch Chains.
Kent & Stanley Company, Providence, R. I. 215

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Waterbury Watch Co., Waterbury, Conn. 341

Windlasses and Capstans.
American Ship Windlass Co., Providence, R. I. 826

Windmills.
Fairbanks, Morse & Co., Chicago, Ill. 769
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Dodge Mfg. Co., Mishawaka, Ind., and Chicago, Ill. 435

Wire and Wire Rope.
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Wire Manufacturers.

Wood Mantels Manufactures.
Ehman & Simon Mfg. Co., Chicago, Ill. 351

Woodworking Machinery.
J. A. Fay & Egan Co., Cincinnati, O. 1118
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6. Alex. B. Andrews, 5th Vice-Pres.
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8. H. P. Platt, Vice-Chairman Executive Com.
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3d Vice-Pres., DAVIDSON B. PENN, of Louisiana.
4th Vice-Pres., GORTON W. ALLEN, of New York.
5th Vice-Pres., ALEXANDER B. ANDREWS, of North Carolina.
Secretary, JOHN T. DICKINSON, of Texas.
Vice-Chairman Executive Committee, H. P. PLATT, of Ohio.

Director-General,
GEORGE R. DAVIS, of Illinois.

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Patrick Walsh, Augusta, Ga.
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Mark L. McDonald, Santa Rosa, Cal.

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H. C. King, San Antonio, Tex.
Thomas Burke, Seattle, Wash.

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COMMISSIONERS.
Albert A. Wilson, Washington.

ALTERNATES.
Dorsey Clagett, Washington.
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Incorporated as a legal body under the laws of the State of Illinois, and one of the agencies provided for in the act of Congress creating the Exposition.

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1st Vice-Pres., FERDINAND W. PECK.
2d Vice-Pres., ROBERT A. WALLER.
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Assistant Secretary, SAMUEL A. CRAWFORD.
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Auditor, WILLIAM K. ACKERMAN.
Assistant Auditor, CHARLES V. BARRINGTON.

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W. K. CARLISLE.
Assistant Attorneys,
GEORGE PACKARD,
CHAS. H. BALDWIN.

Attorney of Ways and Means Committee,
JOSEPH CUMMINS.

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Regular meeting on the second Friday of each month.

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C. K. G. Billings—2 Madison Street.
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Edward B. Butler—Franklin and Congress Sts.
Isaac N. Camp—State and Jackson Streets.
William J. Chalmers—Fulton and Union Sts.
Robert C. Clowry—150 Washington Street.
Charles H. Chappell—Chicago & Alton R. R.
Mark L. Crawford—House of Correction.
George R. Davis—Jackson Park.
Arthur Dixon—299 Fifth Avenue.
James W. Ellsworth—Phenix Building.
Lyman J. Gage—First National Bank.
Carter H. Harrison—Mayor of Chicago.
Charles Henrotin—169 Dearborn Street.
H. N. Higinbotham—Jackson Park.
Charles L. Hutchinson—Corn Exchange Bank.
Elbridge G. Keith—Metropolitan Nat'l Bank.
William D. Kerfoot—85 Washington Street.
William P. Ketcham—Hoyne and Blue Island Avenues.
Milton W. Kirk—Care James S. Kirk & Co.

Edward F. Lawrence—First National Bank.
Thies J. Lefens—Room 1, 80 LaSalle Street.
Andrew McNally—Rand-McNally Building.
Adolph Nathan—Franklin and Jackson Streets.
John J. P. Odell—Union National Bank.
Ferdinand W. Peck—110 Auditorium Bldg.
E. M. Phelps—Phelps, Dodge & Palmer.
Alexander H. Revell—Wabash Avenue and Adams Street.
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George Schneider—115 Dearborn Street.
Charles H. Schwab—Jackson Park.
J. W. Scott—Chicago Herald.
Henry B. Stone—203 Washington Street.
Charles H. Wacker—171 North Desplaines St.
Edwin Walker—616 Rookery Building.
Robert A. Waller—164 LaSalle Street.
John C. Welling—78 Michigan Avenue.
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G. H. Wheeler—2020 State Street.
Charles T. Yerkes—444 North Clark Street.
Otto Young—The Fair.
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4. Harlow N. Higinbotham, President.
5. Howard O. Edmonds, Secretary.
6. Samuel A. Crawford, Assistant Secretary.
7. William K. Ackerman, Auditor.
8. Charles V. Barrington, Assistant Auditor.
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   Second Vice-President.

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   Fourth Vice-President.

6. Mrs. Beriah Wilkins of District of Columbia,
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8. Mrs. Russel B. Harrison of Montana,
   Vice-President-at-Large.

9. Mrs. Virginia C. Meredith of Indiana,
   Vice-Chairman Executive Com.

10. Mrs. Susan Gale Cooke of Tennessee,
    Secretary.

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4th Vice-President, Miss Katherine L. Minor, of Louisiana.
5th Vice-President, Mrs. Beriah Wilkins, of the District of Columbia.
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7th Vice-President, Mrs. Flora Beall Ginty, of Wisconsin.
8th Vice-President, Mrs. Margaret Blaine Salisbury, of Utah.
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Chairman Committee on Awards.
Mrs. Candace Wheeler, of New York,
Director of the Woman’s Building.

NOMINATED BY COMMISSIONERS-AT-LARGE.

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<tr>
<th>LADY MANAGERS</th>
<th>LADY ALTERNATES</th>
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<tr>
<td>Mrs. Mary Cecil Cantrill, Georgetown, Ky.</td>
<td>Mrs. Nancy Huston Banks, Morganfield, Ky.</td>
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<td>Mrs. Mary S. Lockwood, 812 12th St., Washington, D.C.</td>
<td>Mrs. James B. Stone, 137 Vernon St., Worcester, Mass.</td>
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<td>Mrs. John J. Bagley, Detroit, Mich.</td>
<td>Mrs. Schuyler Colfax, South Bend, Ind.</td>
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<td>Miss Ellen A. Ford, 252 Broadway, New York.</td>
<td>Mrs. Helen A. Peck, 3100 Troost Ave., Kansas City, Mo.</td>
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<td>Mrs. Mary S. Harrison, Helena, Montana.</td>
<td>Miss Caroline E. Dennis, Auburn, N. Y</td>
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<td>Mrs. Rosine Ryan, Austin, Texas.</td>
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WORLD'S COLUMBIAN COMMISSION.

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MICHAEL H. DE YOUNG, of California.
THOMAS M. WALLER, of Connecticut.
ELIJAH B. MARTINDALE, of Indiana.
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M. H. LANE, of Michigan.
V. D. GRONER, of Virginia.
P. H. LANNAN, of Utah.
THOMAS SMITH, of New Jersey.
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EUCLID MARTIN, of Nebraska.

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E. P. RIPLEY.
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H. B. STONE.
JOHN J. P. ODELL.

H. O. EDMONDS, Secretary.

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CHARLES H. SCHWAB,
Director World's Columbian Exposition.

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National Commissioner from West Virginia.

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THOMAS B. BRYAN, Vice-President.
LYMAN J. GAGE, Treasurer.
BENJAMIN BUTTERWORTH, Secretary.

C. E. YOUNG.
COMMITTEES
OF THE
WORLD'S COLUMBIAN EXPOSITION
1892-3

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Robert A. Waller, 2d Vice-President.
George R. Davis, Director-General.

Henry B. Stone.
Robert C. Clowry.
Wm. D. Kerfoot.
John J. P. Odell.
Chas. H. Schwab.
John J. P. Odell.
Alexander H. Revell.
Edward B. Butler.
Lyman J. Gage.
Thies J. Lefens.
Charles L. Hutchinson.
Wm. T. Baker.

Regular meeting of the Executive Committee Wednesday of each week at 3 o'clock P. M.

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Elbridge G. Keith.
Lyman J. Gage.
Wm. P. Ketcham.
Henry B. Stone.
Wm. D. Kerfoot.
Chas. H. Schwab.
Charles H. Schwab.
Lyman J. Gage.
Charles L. Hutchinson.

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Robert A. Waller.
Alexander H. Revell.
George R. Davis.

James W. Ellsworth.
Robert C. Clowry.
John J. P. Odell.
Edward B. Butler.
Thies J. Lefens.
Lyman J. Gage.
Wm. T. Baker.

FINES.
Charles L. Hutchinson, Chairman.
James W. Ellsworth.
Charles T. Yerkes.

E. C. Culp, Secretary.

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Chairman.

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Department of State, to represent that department.

FRED A. STOCKS,
To represent the Treasury Department.

MAJOR CLIFTON COMLY,
United States Army, to represent the War Department.

CAPTAIN R. W. MEADE,
United States Navy, to represent the Navy Department.

A. D. HAZEN,
Third Assistant Postmaster-General, to represent the Postoffice Department.

HORACE A. TAYLOR,
Commissioner of Railroads, to represent the Department of the Interior.

ELIJAH C. FOSTER,
General Agent of the Department of Justice, to represent that department.

EDWIN WILLLITS,
Assistant Secretary of Agriculture, to represent the Department of Agriculture.

PROFESSOR G. BROWN GOODE,
Assistant Secretary Smithsonian Institution, to represent that institution and the National Museum.

TARLETON H. BEAN,
United States Fish Commission.

F. T. BICKFORD,
Secretary and Executive-Officer.

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Chairman.

HARLOW N. HIGINBOTHAM.
Ferdinand W. Peck.

H. O. EDMONDS,
Secretary.

HORACE TUCKER,
Superintendent of Admissions.

E. A. FELDER,
Assistant Superintendent.

PAUL BLACKMAR,
Superintendent of Collections.

WILLIAM E. CASH,
Assistant Superintendent of Collections.

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Chairman.

E. B. BUTLER.

W. MARSH KASSON,
Chief of Bureau.

HENRY S. TUTHILL,
Superintendent of Hotel and Rooming Department.
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Director-General,
GEORGE R. DAVIS.

Chiefs of Departments.

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Horticulture
Fish, Fisheries, Fish Products, etc.
Miners, Mining and Metallurgy
Machinery
Transportation Exhibits, (Railways, Vessels and Vehicles)
Manufactures
Electricity and Electrical Appliances
Fine Arts
Liberal Arts
Ethnology
Publicity and Promotion
Foreign Affairs

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J. M. Samuels
J. W. Collins
Fred. J. V. Skiff
L. W. Robinson
Willard A. Smith
James Allison
J. P. Barrett
Halsey C. Ives
Selim H. Peabody
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Walker Fearn

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THOMAS B. BRYAN.

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D. N. BERTOLETTE, Surgeon, U. S. N.
ROGER WELLES, Ensign, U. S. N.
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Pre-Historical.

What may be termed the ante-Columbus, or pre-historical, age of the western half of the globe was when the "oldest inhabitant"—the Mastodon and Mammoth—roved this country. In the skeletons of these huge animals, which have ceased to exist for so many thousand years, there are found flint arrow-heads, which must have been made by men who lived in that time, and by which these wild and terrible creatures were slain. Besides the many animals which belonged entirely to that age, and which there is nothing like now, there were many then upon this continent which we read of now only in foreign countries. The monkey was here, in what we call the United States, and the camel and rhinoceros. What the character was of the people who lived at that time it is impossible to guess.

The first race which has left any distinct traces of itself was the Mound-builders, and it hardly seems as if they could have lived at the time of the Mastodon, for they made pictures of all the things about them, and among those pictures there is nothing which resembles these huge animals. This race of men was not savage, in one sense of the word; they worked hard, a thing which the savage seldom does. They had skill and loved the beautiful. They are called Mound-builders because they have left behind them thousands of immense mounds; some curved, some square, some in the shape of a snake. Sometimes these earth-works have from fourteen to sixteen miles of embankment. Some look as if they may have been the dwelling places of their kings; others seem as if they may have protected temples or altars where they worshiped. This people understood the smelting of ores and mining. Their pottery was far from rude and their implements of warfare very serviceable. They buried their great men under huge pyramids of dirt; but the common people, to judge from the great stack of bones which have been found in parts of the country, were doubtless thrown together and left in the open air. At the time they lived this country must have been thickly populated. It must have taken millions of men to do what they did. No one can guess what became of them, or why they left the possessions upon which they had spent so much time and labor. They disappeared many years before the American Indians roamed through our forests.

The American Indians, as Columbus and his fellow Europeans found them, were not the race that we know. They were said to be well formed, winning, gentle and trustful. They were gracious in their speech and friendly in their manner, with soft brown bodies and delicate movements. Here they lived free as birds, without need of much work, with no cares, until the civilized warriors drove them west and ever west.
TRADITIONAL.

It is hard to tell which of the nations first found men courageous enough to cross these unknown waters. There are traditions that the Chinese did so, and that these Buddhists wandered down to the California shore and went deep into the country that we now know as Mexico. There are traditions, too, that the Breton fishermen cast their lines upon the Newfoundland coast. It is certainly true that North American Indians have been met with whose languages were mixed with French. The Welshmen also claim that a number of their countrymen came to North America and settled. The traditions concerning this are peculiarly romantic. Two brothers, David and Medoc, quarreled for the throne of Wales. The younger gave up his right, and fitting out a ship sailed west. The next year he returned and said that he had found a fruitful country. He called upon his friends to follow him and filled ten ships with men, women and children. They sailed away and were never heard of again. Reference has been made to them in American writings, wherein they are described as a race of white Indians using many Welsh words and having a manuscript copy of the Bible, in the Welsh language, with them. One reference to them speaks of their living among the upper courses of the Missouri.

But the journeys of the Norsemen to America are well known. These Norsemen were splendid seamen and splendid fighters. They had been all over the known world. They had frightened even the great emperor, Charlemagne, in France, and had put their horses in his palace. Wherever they went they seemed to conquer, until at last they were driven from Scotland. Then, on the melancholy island of Iceland, they made their republic. Two-thirds of the year they lived in twilight. Books were their consolation, the sea their playground. It was no wonder they went this way and that, whenever their fancy prompted and wherever they felt they could fight with weaker men. They discovered Greenland and settled a village there; then in strange, strong, if not fleet ships, went coasting further south. It was Bjarne Herjulfsen with his crew who first coasted—driven by adverse winds—along Narragansett Bay, Newfoundland and Nova Scotia. He went back to Iceland with the tales of what he had seen. "What," cried Erik the Red, a wild Norseman who had been banished from his native country for murder, "you saw a new country like that, with green trees and fields, and never put a foot on it?" He talked so much and so long and loud on the subject that his son, Leif Erikson, made up his mind to find out what kind of lands these were which were so much talked about. He bought Bjarne's ship from him, took thirty-five good seamen and went far away to the southwest. They landed in Newfoundland, which they called Helluland, and in Nova Scotia, which they termed Markland. They looked about these countries a little, gave them names, sailed away and were two days at sea before they saw land again. They sailed into a sound, and the grass looked beautiful to these men from a barren country. They found luscious grapes growing wild, grapes from which wine could be made with ease, and a German among them named it Vinland. We have changed the name very little. We call it Martha's Vinyard now. This was in the year 1000. When Leif Erikson reached home, his brother made the complaint that he had brought home much too little news. "You may go in my ship, brother, to Vinland, if you like," said Leif; and thus Thorbald, in the year 1002, went to Vinland and stayed
there three years. It is thought that the skeleton, in armor found near Fall River, Mass., in 1831, was that of Thorbald, who was killed by a poisoned arrow from Indians. In 1005, the last son of Erik the Red started to Vinland to recover the body of his brother Thorbald. His ship was blown out of its course and he never reached his destination. Then came Thorfinn Karlsfenn, with his wife, Gudrid, and with them 151 men and seven women. For three years they lived at Vinland and perhaps built the tower that still stands in Newport, and wrote the inscriptions on the blocks near the Taunton river. On account of constant fights with Indians they went back to Iceland. There are stories of other journeys by the Norsemen in the years 1011 and 1121, and accounts of their going as far south on the Atlantic coast as Florida. The tower which stands at Newport, the only substantial monument that the Norsemen left of their visit, is low and round. It has two windows and a fire-place; the cement with which the stones are put together is still strong, and but for the fact that the roof is gone it could hardly be called a ruin. It is covered with ivy now, and serves the purpose of amusing the chance tourist.

According to Moses F. Sweetser, in his "Hand Book of the United States," the name America comes from *amalric*, or *emmerich*, an old German word spread through Europe by the Goths, and softened in Latin to Americus, and in Italian to Amerigo. It was first applied to Brazil. Americus Vespucius, the son of a wealthy Florentine notary, made several voyages to the New World, a few years later than Columbus, and gave spirited accounts of his discoveries. About the year 1507 Hylacomylus, of the college of St. Dié, in the Vosges mountains, brought out a book on cosmography, in which he said: "Now, truly, as these regions are more widely explored, and another fourth part is discovered by Americus Vespucius, I see no reason why it should not be justly called Amerigen; that is, the land of Americus, or America, from Americus, its discoverer, a man of subtle intellect." Hylacomylus invented the name America, and, as there was no other title for the New World, this came gradually into use. It does not appear that Vespucius was a party to this almost accidental transaction, which has made him a monument of a hemisphere.

These are firmly established facts which prove that Christopher Columbus was not the first discoverer of the New World, yet his claim to the honors of true discovery are practically allowed by all the civilized world. The additional fact that some four centuries intervened from the time of the short sojourn of the Norsemen until Columbus did discover this land, is sufficient as the basis for according the credit to the Genoese.
The Life of Columbus.

Ages unborn shall bless the happy day,
When thy bold steamers steer'd the trackless way;
O'er these delightful realms thy sons shall tread,
And following millions trace the path you led.

—Barlow.

Christopher Columbus, the true discoverer of this land of the free and home of the brave, was born at Genoa in 1435. He was the eldest son of Dominico Colombo and Suzanna Fontanarossa. His father was a wool-comber and continued in that business in Genoa and Savona with varying success until his means were such as to enable him to send Christopher to the University of Pavia. Christopher devoted himself to the sciences, particularly nautical astronomy, under the instruction of Stefeno di Faenza and Antonio da Terzago. After a course at the university he worked for awhile at his father's trade, and at the age of fifteen he became a sailor. According to the crude chapters of his biography written by Hernando, his son, his early life is dubious and conjectural, and little is known of his apprenticeship at sea. These unknown years, however, were certainly stormy and eventful. "Wherever ship has sailed," he has written, "there have I journeyed." Among other places he visited England, "Ultima Thule" (Iceland), the Guinea Coast and the Greek Isles. For some time he was in the service of René of Provence, for whom he intercepted and seized a Venetian galley with much bravery and audacity. Afterward he sailed with Colombo el Mozó, a bold privateer, and a sea fight under command of this sea-captain was the means of bringing him ashore in Portugal. During these years before the mast and in the rigging his mind was not given to the dross of booty so common to the semi-piratical sailor of those days, but instead, he was fired with an ambition of high achievements by reading and meditating on the works of Ptolemy and Marinus, the cosmographia of Cardinal Aliaco, the writings of Pliny and Nearchus and the travels of Marco Polo and Mandeville. He mastered nautical sciences, learned to draw charts and construct spheres, and thus fitted himself to become a practical seaman and navigator. Like Lincoln, he arose from the humblest surroundings and circumstances to the very highest pinnacle of fame, honor and usefulness, by his own indomitable spirit, pluck and God-given qualities, and no fitter illustration of what the youth of this grand and glorious country can gradually attain to under the broad protection of the Stars and Stripes can be found than in the lives of the illustrious names mentioned. What an inspiration to "dare and do" is found in the life of Christopher Columbus! Particularly admirable is his course as a youth and young man. Unaided by wealth or rank, he forced his way to an uncommon position among his associates as apprenticed sailor while yet a mere striplling, and thenceforth he "built above the clouds" by a close application to the solid and substantial studies best adapted to aid him in reaching the goal of a worthy ambition. After being wrecked in a sea-fight, that began off Cape St. Vincent, and escaping to land on a plank, he arrived at Lisbon. In 1470 he married Felipa Moniz de Perestrello, daughter of Bartolomeu Perestrello, a captain in the service of Prince Henry, called the Navigator, one of the early colonists and the first governor of Porto Santo, an island off Madeira. Columbus visited the island
and employed his time in making maps and charts for a livelihood, while he pored over the logs and papers of his deceased father-in-law and talked with old seamen of their voyages and of the mystery of the Western seas. About this time he arrived at the conclusion that much of the world remained undiscovered and step by step to have conceived the design of reaching Asia by sailing west, which resulted in the discovery of America. It was to this train of thought, which finally came to fruition, that the New World is the grand outcome and that the whole world has congregated amid the arts, sciences and splendor of modern civilization to do homage to the Genoese, and to celebrate, by an exhibition of the handiwork of all mankind, an event second in importance only to the Beginning, when God said: “Let there be light and there was light.”

In 1474 we find Columbus expounding his views to Paolo Toscanelli, the Florentine physician and cosmographer, and receiving the heartiest encouragement. His view of reaching Asia by sailing west he supported with three different arguments derived from natural reasons, from the theories of geographers, and from the reports and traditions of mariners. From the colonists on the Azores Columbus heard of two men being washed up at Flores, “very broad-faced and differing in aspect from Christians.” The transport of all these objects was attributed to the west winds and not to the gulf stream, the existence of which was then totally unsuspected. In his northern journey some vague and formless traditions may have reached his ear of the voyages of Bjarn and Leaf, and of the pleasant coasts of Helluland, Markland and Vinland, that lay toward the setting sun. All were hints to bid the bold mariner sail westward, and this he at length determined to do.

The co-operation and concurrence of some state or sovereign, however, was necessary for the success of his designs. The senate of Genoa had the honor to receive the first offer and the responsibility of refusing it. Rejected by his native city the projector turned next to John II., of Portugal. This King had already an open field for discovery and enterprise along the African coast; but he listened to Columbus and referred him to the Committee of Council for Geographical Affairs. The council’s report was adverse; but the King, who was yet inclined to favor the theory of the Genoese, assented to the suggestion of the Bishop of Ceuta that the plan should be carried out in secret, and without Columbus’ knowledge, by means of a caravel or light frigate. The caravel was dispatched, but it returned after a brief absence, the sailors having lost heart and having refused to venture farther. Upon discovering this dishonorable transaction, Columbus felt so outraged and indignant that he sent his brother Bartholomew to England with letters for Henry VII, to whom he had communicated his ideas. He himself left Lisbon for Spain (1484), taking with him his son Diego, the only issue of his marriage with Felipa Moniz. He departed secretly, presumably to give the slip to King John. In one of his letters Columbus wrote: “When I came from such a great distance to serve these princes, I abandoned a wife and children, whom, for this cause, I never saw again.”

The first traces of Columbus at the court of Spain are on May 5, 1487, when an entry in some accounts reads: “Given to-day 3,000 maravedis (about $18) to Cristobal Colon, a stranger.” March 20, 1488, a letter was sent by the King to “Christopher Colon, our especial friend,” inviting him to return to Portugal and assuring him against arrest and proceedings of any kind, but it was then too late.

Columbus then betook himself to the south of Spain and proposed his plan first to the Duke of Medina Sidonia (who was at once attracted by it, but finally threw it up as visionary and impracticable), and next to the Duke of Medina Celi. The latter gave him great encouragement, entertained him for two years and even determined to furnish him with the three or four caravels. Finally, however, being deterred by the consideration that the enterprise was too vast a subject, he turned his guest from the determination he had come to—of making instant application to the court of France—by writing on his behalf to Queen Isabella, and Columbus repaired to the court at Cordova at her bidding. It was
an ill moment for his fortune. Castille and Leon were in the thick of that struggle which resulted in the final defeat of the Moors, and neither Ferdinand nor Isabella had time to listen; but Columbus was kindly received and was handed over to the care of Alonzo de Quintanilla, whom he speedily converted into an enthusiastic supporter of his theory. He made many other friends and here met with Beatrix Enriquez the mother of his second son, Hernando, who was born August 15, 1488.

From Cordova Columbus followed the court to Salamanca, where he was introduced to the notice of Cardinal Pedro Gonzales de Mendoza, dubbed by some historians, "the third King of Spain." The cardinal, while approving the project, thought strongly that it savored of heterodoxy, but an interview with the projector won him over, and through his influence Columbus at last got an audience of the King. The matter was finally referred, however, to Fernando de Talavara, who, in 1487, summoned a junta of astronomers and cosmographers to confer with Columbus and examine his design and the arguments by which he supported it. The Dominicans of San Esteban in Salamanca entertained Columbus during the conference. The jurors, who were most of them ecclesiastics, were by no means unprejudiced, nor were they disposed to abandon their pretensions to knowledge, contrary to the navigator's views, without a struggle. Columbus argued his point, but was overwhelmed with Biblical texts, with quotations from the great divines, with theological objections, and in a short time the junta was adjourned. Senor Rodriguez Panilla, the learned Salamantine writer, holds that the first refusal of Columbus' project was made in the official council at Cordova. In 1489, Columbus, who had been following the court from place to place (billeted in towns as an officer of the King and gratified from time to time with sums of money toward his expenses), was present at the siege of Malaga. In 1490 the junta decided that his project was vain and impracticable, and that it did not become their highnesses to have anything to do with it, and this was confirmed, with some reservation by their highnesses themselves at Seville.

Columbus was now in despair. So reduced in circumstances was he that (according to the eminent Spanish statesman Emilio Castelar) he was jocularly and universally termed "the stranger with the threadbare coat." He at once betook himself to Huelva, where his brother-in-law resided, with the intention of taking ship to France. He halted, however, at Palos, a little maritime town in Andalusia. At the monastery of Santa Maria de la Rábida he knocked and asked for bread and water for his boy Diego, and presently got into conversation with Fray Juan Perez de Marchena, the prior, who invited him to take up his quarters in the monastery, and introduced him to Garci Fernandez, a physician and a student of geography. To these men Columbus propounded his theory and explained his plan. Juan Perez had been the Queen's confessor; he wrote to her and was summoned to her presence, and money was sent to Columbus to bring him once more to the court. He reached Grenada in time to witness the surrender of the city by the Moors, and negotiations were resumed. Columbus believed in his mission and stood out for high terms; he asked the rank of Admiral at once, the vice-royalty of all he should discover, and a tenth of all the gain, by conquest or by trade. These conditions were rejected and the negotiations were again interrupted. An interview with Mendoza followed, but nothing came of it, and in January, 1492, Columbus actually set out for France. At length, however, on the entreaty of Luis de Santangel, receiver of the ecclesiastical revenues of the crown of Aragon, Isabella was induced to determine on the expedition. A messenger was sent after Columbus and overtook him at the bridge of Piños, about two leagues from Granada. He returned to the camp at Santa Fé, and on April 17, 1492, the agreement between him and their Catholic majesties was signed and sealed. This agreement is familiarly known in Spanish history as "The Capitulations of Santa Fé."

His aims were nothing less than the discovery of the marvelous province of Cipango and the conversion to Christianity of the Grand Kahn, to whom he
received a royal and curious blank letter of introduction. The town of Palos was, by forced levy, as a punishment for former rebellion, ordered to find him three caravels, and these were soon placed at his disposal. But no crews could he get together, Columbus even offering to throw open the jails and take all criminals and broken men who would serve on the expedition; and had not Juan Perez succeeded in interesting Martin Alonzo Pinzon and Vicente Yanez Pinzon in the cause, Columbus' departure had been long delayed. At last, however, men, ships and stores were ready. The expedition consisted of the Gallega, rechristened the Santa Maria, a decked ship, with a crew of fifty men, commanded by the Admiral in person; and of two caravels—the Pinta, with thirty men, under Martin Pinzon, and the Niña, with twenty-four men, under his brother, Vicente Yanez Pinzon, afterward (1499) the first to cross the line in the American Atlantic. The adventurers numbered 120 souls, and on Friday, August 3, 1492, at eight in the morning, the little fleet weighed anchor and stood out for the Canary Islands, sailing as it were "into a world unknown—the cornerstone of a nation."

After a momentous voyage land was sighted Friday, October 12, 1492, and it proved to be the New World. The land sighted was called by the Indians Guanahani, and named by Columbus San Salvador.

The same morning Columbus landed, richly clad, and bearing the royal banner of Spain. He was accompanied by the brothers Pinzon, bearing banners of the Green Cross, a device of his own, and by a part of the crew. When they had all "given thanks to God, kneeling down upon the shore, and kissed the ground with tears of joy for the great mercy received," the Admiral named the island, and took solemn possession of it for their Catholic majesties of Castille and Leon. Had Columbus kept the course he laid on leaving Ferrol, says Castelar, his landfall would have been in the Florida of to-day, that is, upon the main continent; but owing to the deflection it was his hap to strike an island, very fair to look upon, but small and insignificant when compared with the vast island-world in whose waters he was already sailing.
GROUP OF WORLD'S COLUMBIAN COMMISSION MEMBERS AND ALTERNATES OF THE BOARD OF REFERENCE AND CONTROL.

1. Thos. W. Palmer, Michigan
2. H. P. Platt, Ohio
3. Geo. V. Masset, Delaware
4. R. L. Saunders, Mississippi
5. Michael H. DeYoeng, California
7. Elijah B. Martindale, Indiana
8. J. W. St. Clair, West Virginia
9. M. H. Lane, Michigan
10. V. D. Gronek, Virginia
11. O. V. Tocsley, Minnesota
12. Euclid Martin, Nebraska
13. Jno. T. Dickinson, Texas, Secretary
GROUP OF WORLD'S COLUMBIAN EXPOSITION MEMBERS OF THE BOARD OF REFERENCE AND CONTROL.

1. H. N. Higginbotham, Chicago.
2. R. A. Waller, Chicago.
4. E. P. Ripley, Chicago.
5. Ferdinand W. Peck, Chicago.
6. L. J. Gage, Chicago.
8. H. O. Edmonds, Secretary, Chicago.
HISTORY OF THE EXPOSITION.

At least two persons claim to have originated the idea of holding a World's Columbian Exposition in 1892 (postponed to 1893). Mr. Alexander D. Anderson, Secretary of the Board of Trade at Washington, D.C., has a number of friends who stoutly defend the claim that he first foreshadowed the project in an interview in the New York Herald in 1884. According to the Washington Post of December 30, 1891, Mr. Anderson "spent four years' time and $33,000" in promoting the movement. That journal states that Mr. Anderson presented the question in detail to the citizens of Washington at a public meeting held on the 25th of February, 1886, when committees were appointed, headquarters opened, and an active and vigorous campaign inaugurated. In April, 1886, the memorial of the committee was presented to the United States Senate by Mr. Gorman, of Maryland, and published in full in the Congressional Record, diagrams and all. The next step was the transformation of the local board into a national board of promotion. In response to notices of appointment sent out Mr. Anderson received formal letters of acceptance from the governors of forty states and territories, the mayors of fifty-five leading cities, 176 presidents and secretaries of boards of trade throughout the country, and the officers of thirty state and territorial granges, approving of the movement and pledging their co-operation. In addition to this the leading national conventions held during 1886, 1887 and 1888, such as the National Board of Trade, National Grange, American Bankers' Association, International Medical Congress, etc., adopted strong resolutions in support of the project. On the 16th of June, 1888, Hon. Perry Belmont, of New York, then chairman of the Foreign Affairs Committee, submitted to the House of Representatives, in behalf of the committee, a unanimous report in favor of the project, and designating Washington as the place. This report (No. 2601, Fiftieth Congress, first session) was an elaborate document of fifty-seven pages in print, and contains the correspondence above mentioned with governors, mayors, etc., together with the arguments before the committee. When the Exposition bill came up for debate in the House and Senate, due credit was publicly given in each body for the leading part the city of Washington had played in this patriotic work. In the House on February 21, 1890, Hon. Charles E. Hooker, of Mississippi, said in the course of his remarks (quoted from the Congressional Record):

"It is but just to say of these non-represented people of the District of Columbia that it was the people of this District who, long before any place was designated for the site of this Exposition, established a board of promotion and for four years have been earnest advocates of holding this great Fair at the Capital of the Nation. [Applause."

In the debate in the Senate, on the 21st of April, 1890, Mr. Gorman, of Maryland, said:

"I introduced the bill in 1886, at the request of gentlemen in this city and the boards of trade of the city of Baltimore and elsewhere. The whole project, however, it is due to say, was gotten up and urged by a gentleman who is now a resident of the city of Washington—Mr. A. D. Anderson."

Dr. Charles W. Zaremba, of Chicago, claims that while attending the Centennial Exposition at Philadelphia, on the 9th of September, 1876, he conceived the idea of celebrating the four centenary of America's dis
covery by Columbus by a World's Fair, about which he talked to many of his friends. In June, 1884, he issued a circular, he says, inviting the foreign ministers at Washington to confer about this event in proper form. Many and most flattering were the replies received by Dr. Zaremba, especially from Hussein Tewfik, the Turkish Minister; Dr. Matias Romero, the Mexican Minister; Señor Amaral Valente, Chargé d' Affairs of Brazil; Señor Joaquín Godoy, the Chilian Minister, and others. The same year he had an audience with General Porfirio Diaz, President of Mexico, and his ministers, all expressing their gratitude to Dr. Zaremba for originating the idea and making it known to the representatives of the world. Dr. Zaremba was born July 29, 1842, at Koenigsburg, Prussia, where his father was a petty officer in the Third Regiment of Cuirassiers, and afterward an internal revenue officer at the city of Memel, where Zaremba attended the primary school until 1854, when in October of that year he entered the military school at Potsdam. In 1857, being transferred to the Military Academy, he studied the higher branches in connection with military education and tactics, becoming at the same time personally acquainted with the late Emperor Frederick of Germany. In 1859, he entered the service of the Royal Guard Artillery at Berlin, and within ten months was transferred to the staff of Prince Wilhelrn of Baden, who took special interest in him, and secured a special permit for Zaremba to attend the lectures of the Berlin University. In 1862, he went to Moscow, Russia, and while finishing his studies in medicine and philosophy he wrote a manual of military gymnastics for the Russian army. In September, 1865, Zaremba coming with his mother to Chicago went to St. Joseph, Mich. He soon returned to Chicago, however, and practiced his profession as a physician until the great fire. In 1871, he became one of the founders of the Chicago Athenæum. Dr. Zaremba was one of the prime movers in the Interstate and Industrial Exposition in 1872 and 1873. In November, 1878, when the International Commercial Convention assembled at Farwell Hall, Dr. Zaremba was appointed a city delegate by Mayor Heath. In January, 1879, he started with the first Industrial Excursion from Chicago to Mexico, which formed the entering wedge for American trade in that country.

Dr. A. W. Harlan, a dentist of Chicago, first proposed Chicago in print as the location of a Columbian World's Fair. His letter to this effect was printed in the Chicago Times, February 16, 1882, and he presented cogent reasons in favor of the plan and location he advocated. This and several succeeding suggestions of a like character slumbered or were really abandoned for lack of support. Later on Mr. Edwin L. Brown made a proposition in the form of a resolution to hold a World's Fair in Chicago, which was adopted by the local Exposition Company. In 1885 Judge Henry M. Shephard instituted a similar movement. The greatest of all Expositions up to that date was then being arranged for in Paris, France, and much interest was manifested in this Exposition by the people of the United States. The success of the Paris Exposition caused a revival of the half-forgotten project of a great Columbian Exposition. The press throughout the United States discussed the propriety of holding such an Exposition. Chicago's public-spirited citizens gave a welcome to the idea, and at once took steps to realize it. The pluck of Chicago's "I Will" at once stamped success on the movement. Prior, however, to the holding of the Paris Exposition, Judge Shephard's activity in formulating plans for a World's Columbian Exposition took shape, and he signed a call for a joint meeting of the Iroquois, Union League, Commercial, University, Illinois, Kenwood and Standard Clubs, to be held in the rooms of the Iroquois Club, July 6, 1888, "to discuss the advisability of holding a World's Fair in Chicago in 1892 (postponed to 1893) and the best means to employ to carry such a project into execution."

At this meeting the following resolution was adopted:

Resolved: That the representatives of the clubs of Chicago assembled in this meeting form an organization in order to hold a World's Fair in the City of Chicago to commemorate the discovery of America by Columbus four hundred years ago.
CARTER H. HARRISON

MAYOR OF CHICAGO.
DE WITT C. CREGIER,
EX-MAYOR OF CHICAGO.

HEMPSTEAD WASHBURN,
EX-MAYOR OF CHICAGO.
A second meeting was held July 13, and a committee was appointed with full power to formulate a detailed plan for such an Exposition; but this movement also proved fruitless. The scheme languished and many of the most enthusiastic lost heart. The proposed organization of the clubs was never formed, and for a year no actual progress was made. Meantime the Paris Fair was in the height of its success, and that triumph no doubt stimulated Chicago to renewed efforts for the accomplishment of a project in which its public-spirited citizens would find a crown to the marvelous work that they had done in transforming in a few years prairies, marshes and huts into the Garden City—a city now universally recognized as one of the greatest in the world, and which has arisen from dire disaster of the most destructive conflagration ever known to the proud position of second city in the United States in point of population, and, unquestionably, to the very front rank in point of pluck, energy, enterprise and success; a city, the possibilities of which, being in a comparative stage of infancy, bids fair to outstrip in the near future, not only the other grand and marvelous cities of the New World, but the very European capitals themselves, in the onward march of progress. Famed for its commerce and manufactures; its shipping; its law and order; its bright, intelligent and hospitable citizens; its churches, schools and university; its progress in the arts and sciences; its health; its bracing and cool summer climate; its grand and marvelous buildings; its railroad facilities; its parks, drives and boulevards; its excellent, economical and extensive hotel, restaurant, café and boarding and lodging accommodations; its handsome temples of amusement; its inviting and remunerative field for capital and labor—all conspired to intensify the feeling that, aside from the patriotic motive of a fitting celebration of the discovery of America, the whole world should have an opportunity of seeing for themselves what Chicago really is, and to make of it the Mecca of civilization at least for this period. Soon every citizen from the highest to the humblest had become an advocate of the enterprise. So strong did this popular movement become that the Mayor of the city and the Common Council gave it formal organization.

July 22, 1889, Mayor Dewitt C. Cregier read the following message to the Council in regular session:

_Gentlemen of the Council:_ It is the desire of the City of Chicago to hold a World’s Fair in 1893, and the City Government will do all in its power to realize it. Without any prejudice, it can safely be said that Chicago, of all other cities, is the best place in which to hold a great international Fair and make it a brilliant success. Chicago, indeed, is the city most truly manifesting American life, American ideas and American enterprise. In regard to its location, its railroad and hotel facilities, she has no rival. There is sufficient space inside the city limits for the Exposition. The proverbial enterprise and magnanimity of the citizens of Chicago and their unlimited hospitality, showing itself on every occasion, are a sure guarantee of success. Labor, time or money will not be spared. In the face of the organized efforts of other cities, I suggest that an organization, representing all classes of citizens, be formed to secure this great undertaking for this city.

DeWITT C. CREGIER, Mayor.

The Mayor was authorized to appoint a committee of one hundred citizens to outline the preliminary work necessary to secure the Exposition for Chicago. At a subsequent meeting of the Council the Mayor was given discretion as to the size and composition of the committee, in response to a suggestion by him that the committee be increased to two hundred. He thereupon appointed the following:

Adams, Geo. E. Ballard, Addison
Adams, J. McG. Barnum, William H.
Aldrich, J. F. Bartlett, A. C.
Allerton, S. W. Beck, A. R.
Allsworth, J. Berriorabat, F.
Allgeld, John P. Best, William
Anderson, J. Billings, A. M.
Anthony, Elliott Birkhoff, George
Armour, P. D. Bissell, George F.
Baynott, Paul Black, John C.
Baker, Frank Blackstone, T. B.
Baker, William T. Blair, Chauncey
Blair, William
Blake, E. N.
Blatchford, E. W.
Blodgett, H. W.
Boerlin, Louis
Boldenweck, William
Booth, A.
Boyesen, I. K.
Bradley, J. Harley
Brand, Rudolph
Bruwaert, F. E.
Bryan, Thomas B.
Buchler, John
Burley, A. G.
Cable, R. R.
Cameron, D. R.
Carpenter, A. A.
Carson, John B.
Cary, Eugene
Caton, J. D.
Chase, C. H.
Chase, Benjamin F.
Chetlain, A. L.
Clark, J. B.
Clark, John E.
Claussenius, H.
Clifford, Richard W.
Collins, Lorin C.
Colvin, H. D.
Corbin, H. C.
Corkery, Daniel
Counselman, C.
Cragin, E. F.
Crane, R. T.
Crawford, Mark
Crerar, John
Cron, Frank E.
Crook, General John, U. S. A.
Cudahy, Michael
Cummins, A.
Cummins, C. R.
Davis, George R.
Dennehy, Charles
Dexter, Wirt
Doane, J. W.
Donnersberger, J.
Drake, John B.
Drayer, Emil
Dreyer, E. S.
Ducat, A. C.
Dunham, R. W.
Dunlap, Geo. L.
Eames, Henry F.
Egan, Wiley M.
English, William S.
Evens, Clinton B.
Ewing, William G.
Fairbank, N. K.
Fargo, Charles
Farlin, Henry J.
Farwell, J. V.
Farwell, Senator Charles B.
Feehan, Archbishop Patrick A.
Field, Marshall
Fitz Simons, Charles
Fuller, Mellville W.
Furber, H. J.
Gage, Lyman J.
Garnett, Gwynne
Gary, Joseph E.
Gerrard, Victor
Glenn, T. H.
Glessner, J. J.
Goudy, W. C.
Grammes, J. B.
Grannis, W. C. D.
Gregory, S. S.
Gresham, Walter Q.
Grinell, Julius S.
Gross, S. E.
Halle, E. G.
Ham, Charles H.
Hamilton, John M.
Hankson, Joseph
Harrison, Carter H.
Hart, Henry
Harvey, T. W.
Hawes, Kirk
Healy, James T.
Heath, Monroe
Henrotin, C.
Henrotin, C. N.
Hesing, Washington
Higgins, Van H.
Hughitt, Marvin
Hill, D. K.
Holmes, C. B.
Hooley, R. M.
Horton, O. H.
Hoyne, F. G.
Hudson, P. S.
Hurlbut, Dr. V. L.
Hurlburt, H. A.
Hutchinson, C. L.
Jackson, H. W.
Jameson, Egbert
Jeffrey, E. T.
Jones, N. S.
Jones, J. Russell
Judd, S. Corning
Keith, E. G.
Kent, Sidney
Kerfoot, Wm. D.
Kern, Charles
Kimball, C. P.
Kimball, W.
King, Henry W.
King, John A.
Kinsley, H. M.
Kilbasa, Peter
Kirk, James A.
Knickerbocker, Joshua
Koch, C. R. E.
Kohlsaat, H. H.
Kohn, H. A.
Kraus, Adolph
Laflin, Lycergus
Laflin, Matthew
Lawler, Frank
Lawson, Victor F.
Lehman, E. J.
Leiter, Levi Z.
Leland, Warren
Lester, John T.
Libby, A. A.
Lieb, Herman
Lincoln, Robert T.
Lindblom, Robert
Longenecker, J. M.
Lowenthal, Bernhard L.
Mandel, S.
Marshall, L. A.
Mason, Roswell B.
Mason, William E.
Matejka, U. V.
Matson, C. R.
Mayo, John B.
McCavoy, John H.
McCagg, E. B.
McCleary, A. C.
McConnell, S. P.
McFarland, H. J.
McLaren, Bishop Wm. E.
McMullen, J. C.
McNally, Andrew
McNulta, John T.
McVeagh, F.
McVicker, James H.
Medill, Joseph
Michaelis, R.
Moran, Thomas A.
Morris, Edward N.
Moses, Adolph
Munger, A. A.
Nelson, Murray
Nettlehorst, L.
Newberry, Walter C.
Newell, John
Nickerson, S. M.
Nixon, Wm. Penn
Nordinfing, F. V.
O'Neal, John
Palmer, Potter
Parmelee, Frank
Patterson, R. W.
Pearce, J. Irving
Peck, Fred W.
Phelps, E. M.
Pike, Eugene S.
Porter, H. H.
Potter, O. W.
Franklin, Richard
Prentice, J. H.
Pulman, George M.
Purinton, D. V.
Quan, W. J.
Raster, Herman
Rawleigh, J. T.
Revell, Alexander H.
Reynolds, J. P.
Riddle, Francis A.
Roche, John A.
Roesing, B.
Rumsey, J. P.
Russell, Martin J.
Ryerson, M., Jr.
Sadler, J. H.
Scammon, J. Y.
Schneider, George
Schroeder, P. H.
Schwab, Chas. H.
Schwartz, Charles
Scott, Jas. W.
Scott, Robert
Seavers, Geo. A.
Seeberger, Anthony F.
Seipp, W. C.
Sene, H. C.
Sexton, J. A.
Sheppard, Henry M.
Sherman, John B.
Shorey, Daniel A.
Shufeldt, H. H.
Smith, Byron L.
Smith, John C.
Smith, R. J.
Spaulding, Jesse
Sprague, A. A.
Stensland, Paul
Stewart, Graeme
Stockton, J.
Stone, R. G.
Stone, Henry B.
Storey, A. C.
Strong, W. R.
Studebaker, C.
Sturges, George
Sullivan, W. K.
With the announcement of this committee enthusiasm for the undertaking increased day by day. Within three days after the committee had been appointed there assembled August 1, 1889, in the Council chamber one of the most representative bodies of citizens ever got together. Mayor Cregier was elected chairman and Thomas O'Neill recording secretary. The Mayor read communications from all parts of the West declaring preference for Chicago as the site for the Fair.

Resolutions were presented by Hon. Thos. B. Bryan, who supported them in a brief address. Mr. Bryan's enthusiasm seemed to be contagious, for the grand undertaking thrived from that moment. To him, perhaps, more than to any one else is the credit of the magnitude of the Exposition due. When other gentlemen lagged in their efforts he spurred them on, when a paltry million or two was suggested as a plethora purser for carrying out the plans, he it was who, with his keen perception and ripe experience, foresaw the possibilities of an Exposition since realized, and advocated that sextuple such a sum should be raised. No pent up Utica restricted his ideas of an Exposition in keeping with the grandeur of the civilized world, particularly of America and Chicago. Some wise business men and able financiers thought then that his ideas were Utopian, but the culmination has borne him out as correct. The Bryan resolutions were the first official announcement of the Fair telegraphed over the country. The resolutions were as follows:

Resolved, That whereas the recent Centennial celebration in New York received—properly and with Chicago's hearty concurrence—the distinct recognition of Congress and of the chief officers of the government, imparting to it a national character, and a like recognition and substantial aid having been extended to the World's Fair at Philadelphia (also with Chicago's hearty co-operation in and out of Congress), therefore, the West feels justified in insisting upon its turn now, and upon the location of the next great Fair in its commercial metropolis.

Among the reasons in support of that claim, the following are presented:
1. Chicago's Refrigerator, the lake, renders her summer climate more comfortable than that of any other great city for an exhibition at that season.
2. Her exceptional railroad and hotel accommodations insure the comfort and convenience of visitors, however numerous.
3. A limitless supply of water and the immense area of the city are adequate to all the demands of an exposition.
4. Chicago citizens have the money, and the public spirit to advance it freely in a good cause.
5. Whilst New York is nearer to England than to our Pacific coast, Chicago is so centrally located, with her thirty-eight railroads, pointing out in all directions, as to be accessible alike to exhibitors and visitors from every quarter of the globe, and especially to millions in the West, who would be debarred visiting the Fair if held at the seaboard.
6. Foreigners, and, indeed, many of our countrymen at the East, should have the opportunity presented them of seeing for themselves the growing cities of the West, that they may better realize that the discovery of Columbus embraced not merely a narrow strip of territory along one seaboard, but a mighty empire of almost limitless expanse and destiny.
7. What more eligible location can be desired than Chicago, from the fact alone that her marvelous growth, within the memory of the natives, from the frontier camp to the active city of over a million souls, with a corresponding advance in commercial, industrial and intellectual activities, can best typify the giant young nation whose discovery the projected Fair is to commemorate.
8. Men who helped build Chicago want the Fair, and having a just and well sustained claim, they intend to have it.

These resolutions were unanimously adopted and the meeting proceeded to the election of an Executive Committee, of which Mayor Cregier was made chairman. The committee was as follows:

A sub-committee of the Executive Committee, consisting of William Penn Nixon, Chairman; E. F. Cragin, Secretary; E. T. Jeffrey, Robert Lindblom, General J. B. Carson, Andrew McNally, Thomas B. Bryan, W. J. Onahan and Charles H. Schwab, was appointed to name the sub-committees necessary to do the preliminary work. This committee met on Saturday, August 3, when it was decided that ten sub-committees would be needed to attend to the work. They were on Finance; on Preliminary Expenses; on Congressional Action; on National Cooperation; on Press; on Addresses and Local Agitation; on Addresses, Information and National Agitation; on Railroads and Transportation; on Hotels and Accommodations. Lyman J. Gage was made chairman of the Committee of Finance, with Charles L. Hutchinson, James W. Scott, Jesse Spaulding, J. Irving Pearce, W. C. Seipp and John B. Carson as the members.

Chairman Gage in looking about for a suitable man to take general charge of the two hundred committees or more that were created to solicit subscriptions from the various trades and branches of business, appointed D. H. Lamberson Superintendent of the Stock Subscriptions, and he was requested to call upon the Finance Committee for such assistance as he might require in the discharge of his duties.

The Finance Committee was thus organized with authority to collect a fund which should be sufficient to cover all expenses and increase the fund whenever necessary, in order that the right of a corporation under the laws of the State might be acquired, and to assume the title, “The World's Exposition of 1893” (subsequently changed by the incorporated title, “The World's Columbian Exposition”). A guarantee fund was subscribed and the Finance Committee organized as a corporation with full power to act.

On September 19, 1889, at a meeting of the chairman of the sub-committees reports were submitted which showed as subscribed and pledged the sum of $2,541,810. Early in October a special Sub-Finance Committee was appointed with Mr. Otto Young as chairman thereof, to specially push, in connection with the bureau presided over by Mr. Lamberson, the work of subscriptions. Early in April, 1890, when by the joint efforts of all parties concerned, the subscriptions to the capital stock had realized the magnificent sum of $5,000,000. Mr. Lyman J. Gage, Chairman of the Finance Committee, wrote to Superintendent Lamberson, expressing his satisfaction with the work Mr. Lamberson had performed in connection therewith.

The committee was materially assisted by numerous committees among every class of citizens, who formed for the purpose of raising funds for the Exposition. Merchants, capitalists, mechanics and workingmen willingly gave time and money to aid in the work all doing their share to promote the claim of Chicago as the site of the Exposition, a claim which soon became known to the world. Offices were rented in the building of the Adams Express Company, and the Committee on Organization went to work with energy. At a meeting held August 9, 1889, Attorneys Burnham & Gookin submitted a detailed plan for a "World's Fair" to be held in Chicago on the Lake Front. Thomas B. Bryan, Chairman of the Agitation Committee, called attention to the
DIRECTORS WORLD'S COLUMBIAN EXPOSITION.

1. Lyman J. Gage.
2. Harlow N. Higinbotham.
3. Frederick S. Winston.
4. Ferdinand W. Peck.
5. George R. Davis.
7. Thomas B. Bryan.
11. George Schneider.
13. Robert A. Waller.
15. Edwin Walker.
August 16th a request was published in the local newspapers asking all women who wished to help Chicago attain its object to attend a meeting at the office of Dr. Fanny Dickinson, at No. 70 Lake street. A number of prominent ladies met and formed an organization called the "Queen Isabella Association." Further action was taken at a meeting October 25th, at Central Music Hall, at which it was resolved that Chicago must obtain the World's Fair. From this time on all classes of citizens acted throughout as if the prize were already within her grasp. Mr. E. T. Jeffrey was sent as a representative to Paris to collect material from the Paris Exhibition. On his return he published a detailed account of the Paris Exhibition, its organization, and a history of World's Fairs held in the past. The ambition was thus inspired to hold an Exposition that would surpass the one held in Paris.

About this time there was much competition among several cities of the United States for the prize which Congress would bestow in naming the location of the Exposition. New York was the first outside city to take definite steps to capture the much coveted prize. July 17, 1889, the mayor of that city issued invitations to five hundred prominent citizens, requesting their attendance at a meeting to determine the popular sentiment of that city as to the advisability of holding an Exposition to commemorate the four hundredth anniversary of the discovery of America by Columbus, and the availability of New York as a proper site of such an Exposition. The New York Chamber of Commerce took up the matter in a spirit which seemed to bode ill for the prospects of Chicago. The press of New York ridiculed the idea that such an Exposition could be held any where else, and least of all in a city a thousand miles inland. For a time the candidacy of St. Louis was pushed with considerable energy. Upon the invitation of the mayor a large number of business and professional men assembled August 11, 1889, and unanimously decided to compete for the prize, and this committee performed its work faithfully up to the day Congress rendered its decision. Washington was also a dangerous rival of Chicago. On September 30th, an open letter appeared in the daily press of that city in which the writer openly declared that Washington would be able to take the prize from Chicago with ease. It was expected that in the event of a contest between the other cities all would "agree upon the capital as a compromise. St. Paul entered the fight October 1, 1889, the Board of Trade assuming charge of the city's interests, while her sister city, Minneapolis, pursued a similar course. Meantime numerous bills relative to the Exposition had been introduced in the House of Representatives of Congress. On December 19, 1889, Senator Cullom of Illinois introduced a bill entitled "An Act to provide for the holding of a World's Exposition of the arts and industries in commemoration of the four hundredth anniversary of the discovery of America." The bill provided that thirty days after its adoption the President should appoint exposition commissioners nominated by the governors of the different States and Territories; that the governor of the State chosen as the site of the Exposition, should, with the assistance of the mayor of the city, nominate one hundred commissioners from among the subscribers to the stock of the Exposition company, to be formed for the purpose of promoting the Exposition project, upon the express condition that the State raise a reserve fund of $5,000,000 in cash or equivalent bonds; that the President should also appoint eight commissioners-at-large as representatives of the Federal government, and one from the District of Columbia; that the Commission so formed should be officially entitled "The United States Columbian Commission," and that the body should meet in the capital city on call of the Secretary of State, and receive subscriptions to the reserve fund to the amount of fifteen million dollars, each share to be limited to $10. It was further provided that so soon as the bill should have received the executive sanction, the President should make proclamation of the location selected for holding the Exposition, and inviting the nations of the world to participate. A similar bill was brought in the House of Representatives.
GROUP DIRECTORS WORLD'S COLUMBIAN EXPOSITION.

1. Victor Lawson.
2. Andrew McNally.
3. Otto Young.
4. C. L. Hutchinson.
5. J. W. Scott.
6. Chas. T. Yerkes.
7. G. H. Wheeler.
On the 21st of December Senator Vest offered an amendment to the Senate bill, directing that the Exposition be held in the city of St. Louis. At this stage of proceedings the entire subject was referred to an appropriate committee, and pending the final action of Congress determining the site, the rival cities occupied themselves in pressing their claims upon the senators and members of the House. During the month of January, 1893, the Senate committee on the Exposition heard arguments from delegates representing the contestants. At the first meeting of the committee were present: Senators Hiscock, Chairman; Sherman, Hawley, Wilson, of Iowa; Stanford, Eustis, Farwell, Kenna and Gray. It was decided to hear the advocates of Chicago on January 9th; of Washington City on the 10th; of New York on the 11th; and to require counter arguments to be submitted in writing only.

Governor Francis, of Missouri, opened the discussion in favor of St. Louis, and was followed by Hon. Charles H. Jones, of the St. Louis Republic, in an eloquent address which forcibly presented the advantages offered by that city. Ex-Governor Stannard also spoke in the same behalf. At the close of the evening the committee resolved to pass Washington for the present, and to devote an entire session to an audience of the delegations from Chicago and New York. Meanwhile, contrary to all expectation, the House Committee on Foreign Affairs decided to proceed without delay to consideration of the several bills concerning the Exposition. This action was regarded as favorable to the hopes of Chicago, and the advocates of other locations united in a strenuous effort to overcome this advantage. Mr. Flower, a representative, now Governor of New York, solicited the Speaker of the House to call together the Committee on Rules in order that a special committee might be appointed to take charge of the disputed subject; but his efforts at this time were futile.

On the 10th of January New York appeared on the scene with a formidable array of talent and influence, gathered from every class and profession, party and sect of her population. Headed by Mayor Grant came a long procession of names famous in the field and on the forum, in finance and in commerce. William C. Whitney, arm-in-arm with Ex-Senator Warner Miller, Burke Cochran and Elliott F. Shephard, Huntington and Inman, all fired with the common purpose of achieving honor for their great metropolis. On the same day the entire delegation from Chicago arrived in Washington, a goodly representation, led by Mayor Cregier and Senator Farwell; and Greece met Greek before the Senate committee on the morning of January 11th, the citizens of Washington having urged the fitness of the National Capital on the preceding day. The discussion was opened by Chauncey M. Depew, and his cause was pleaded with all those arts of oratory for which he is justly famous. Winning the assent of all auditors to his delarations that for the glory of the country this Exposition must be made to excel any ever attempted, Mr. Depew passed easily to the point in controversy. "As," he said "the proper location for a World's Fair in France was Paris, in Italy, Rome, London in England, Berlin in Germany, so the only site to which the United States could appropriately invite a Congress of the Nations was the American metropolis, the center of trade and capital, and the gateway of commerce." The speaker also dwelt upon the immense sum of money that would be requisite to guarantee the success of so great an enterprise, and insisted that New York alone possessed the wealth to furnish it. "Washington," said he "has the finest thoroughfares and most magnificent public buildings in the world; St. Louis the privilege of age and an unrivaled situation in the Valley of the Mississippi; Chicago could boast a development not equaled in the pages of ancient or modern history; but New York remained supreme and unquestioned the represenative city of America." Appeals of a like nature were felicitously made by Messrs. Cochran and Miller.

Present on behalf of Chicago in addition to the gentlemen already named, were George R. Davis, Thomas B. Bryan, Adlai E. Stevenson, E. F. Cragin, Walter C. Newberry, John C. Black, E. T. Jeffrey, Frederick S. Winston and
others of like character and standing. Upon Mayor Cregier devolved the duty of opening the case for Chicago, and it was impressively and vigorously discharged. "We are here," he said "as citizens of our common country to represent a great city of the West. Its inhabitants are impressed with the opinion that the Exposition projected in honor of that intrepid voyager, Christopher Columbus, should be held in that section. I represent to a certain extent the people of Chicago, who, while ardently desiring that the World's Fair should be held in their city, share the wish and determination of other communities, and of all true American citizens, that, wherever the wisdom of Congress shall locate the Exposition, nothing shall be omitted to make the occasion worthy of the strength, the wealth, the culture, and the patriotism of this great government. In any case Chicago will contribute her full share that this country may appear before the nations in a manner to sustain and increase her renown. I am here to reciprocate the expressions of genuine brotherhood which it has been our pleasure to hear this morning. There is no rivalry but that of friendship between New York, the capital of America, and Chicago, the metropolis of the great West. In New York my eyes first opened upon the light of the world. It is the brilliant star of this continent, the flower of our civilization. Ever since we became a people New York has been the gate through which we sought communication with the outside world. But now there exists a new country on the other side of the Alleghenies, where powerful commonwealths have arisen, where population has multiplied, where the ground gives forth its increase a hundredfold; and of that bountiful domain, Chicago is the Queen" His Honor proceeded by statistics and illustration to demonstrate how capable Chicago was to meet every requirement to be imposed upon the site of the Exposition, and closed amid the plaudits of friends and opponents alike. Hon. Thomas B. Bryan then offered a most practical and cogent argument from Chicago's point of view, and was succeeded by Mr. E. T. Jeffrey, who was also happy and effective in his line of remark. Here, for the present, the case before the Senate tribunal rested.

On January 16th the Committee on Rules reported to the House of Representatives a resolution requiring the speaker to appoint a committee of thirteen, to which should be referred all bills and resolutions concerning the Exposition, and which should report to the House a plan for selecting a site. Mr. Cannon, of Illinois, moved that the choice of location be lodged with the Committee on Foreign Affairs, and that the committee be instructed to first determine whether the Exposition should be held east or west of the Alleghany mountains before agreeing upon any city as the site. Mr. Hite, of Illinois, supported this motion. He said the Committee on Foreign Affairs, of which he was chairman, ought not to be slighted in the manner proposed by the Committee on Rules; that it already had charge of the bills referred to and had given the subject careful consideration. Other members participated in the debate, but no conclusion was arrived at. On the following day, January 17th, the House, by a majority of five votes, adopted a resolution authorizing the speaker to constitute a committee of nine "to have charge of all bills in relation to a celebration of the four hundredth anniversary of the discovery of America." The following were appointed: Messrs. Candler, of Massachusetts, Chairman; Hite and Springer, of Illinois; Belden and Flower, of New York; Frank and Hatch, of Missouri; Bowden, of Virginia, and Wilson, of West Virginia. This committee held its first session on January 21st, and after a spirited discussion, on motion of Mr. Frank, a subcommittee was appointed, consisting of Messrs. Candler, Hite and Flower to report on the following Thursday on the question of site. The committee also decided not to hear any argument concerning the location of the Exposition. With little delay the preliminary skirmishes in committee were concluded, and the battle royal began with Mr. Candler's call for the order of the day, on a bright morning when the floor and galleries were crowded. To follow the debate would consume more space than can be allotted to this branch of the record. But it is necessary to recall that there was a firm, though ineffectual opposition,
led by Mr. Mills, of Texas, to the project of holding an Exposition. However, on the 23d day of February, Mr. Candler concluded the discussion, and an agreement had been reached that the vote should be taken on the ensuing day. The House was packed to suffocation with the eager champions for the competing cities, and the passages to the halls were blocked with persons anxious for early news of the result of the long struggle. The question being on filling the blank in the bill with the name of the city in which the Exposition should be held, the House had agreed that a majority of all the votes cast would be required to determine the victor.

On the first roll call (Mr. Candler not voting), the number of votes was announced as 305, making 153 necessary to a choice. Of these Chicago secured 115; New York, 70; St. Louis, 61; Washington, 58; Cumberland Gap, 1. No choice, and it was evident that the situation would narrow down to a trial of strength between Chicago and New York. The excitement grew intense as the ballots proceeded as follows:

Second—Chicago, 121; New York, 83; St. Louis, 59; Washington, 46. Total, 309. Necessary to a choice, 155.


Fifth—Chicago, 140; New York, 110; St. Louis, 38; Washington, 4. Total, 312. Necessary to a choice, 157.

At this stage there was some anxiety among the Chicago members as to the result of the next roll call; for New York on the last had gained 15 votes, while her own forces had been increased by six. These fears were groundless, however, as the sixth ballot carried their total up 149, while New York only received 116. The managers for the latter city now sought to gain time to strengthen their lines, and moved an adjournment. The answer was a chorus of derisive cheers from the Westerners, who now had victory in open sight. The motion was defeated, yeas, 138; nays, 174, a test which plainly indicated the coming event. Nor did the New Yorkers interpose any further attempt at delay, and the clerk proceeded for the seventh time to call the roll, and still no election, though Mr. Reayburn, of Pennsylvania, left New York to swell the Chicago column, and she lacked now only two votes to consummate the triumph. Then amid breathless attention the last vote was taken.


The long agony was over, and the crown of selection had fallen upon the brow of Chicago.

The week succeeding the action of Congress fixing the location of the World's Fair was one of universal rejoicing in Chicago, upon which the eyes of the whole world seemed suddenly turned. Congratulations poured in from all directions. Even St. Louis and New York joined cordially the ranks of Chicago's well-wishers. The newspapers of these two cities found ready explanations of the result. The Globe-Democrat declared that bad management had ruined the chances of St. Louis, while the Herald placed the blame for New York's disappointment on the shoulders of Senator Platt, and assured him that it would find an opportunity to "get even." The reception given the Chicago delegates on their return from Washington amply repaid them for the wear and tear of the contest. They were met at South Chicago by a special train carrying a load of welcoming citizens, headed by the mayor and aldermen, and escorted to the city in triumph. At the depot the delegation and their escort were met by a multitude of cheering citizens, who joined in the procession that wound through the crowded streets past the newspaper offices to the Council Chamber in the City Hall, where the delegates were to receive official public recognition of their services and their success. The hall was crowded to its doors. The welcome address delivered by
James W. Scott, who presided, was followed by such loud and persistent cries for "Cregier," that the mayor arose and briefly recounted the difficulties which the delegates had met and overcome. Senator Farwell, Thomas B. Bryan and others spoke of what the citizens of Chicago were undertaking in accepting the responsibility so valiantly striven for. A discussion followed, which resulted in the appointment of Messrs. Gage, Young, Walker and Bryan as members of a committee charged with the duty of protecting Chicago's interests before the special committee in charge of the World's Fair Bill.

On March 6th this committee was granted a hearing, Mr. Candler, chairman of the special committee, presiding. Mr. Gage and his colleagues were able to convince the committee that the $5,250,000 already subscribed by the people of Chicago, was the equivalent of cash, and the amount could be readily doubled if the exigencies of the case were found to require it. And having submitted an amendment to the bill in accordance with their instructions, the committee returned to Chicago.

March 19th Mr. Candler, on behalf of the special committee, read to the House a report, of which the substance is given here:

"By order of Congress the city of Chicago has been chosen for the location of the World's Fair, and your committee has accordingly inserted in the body of the bill the name of that city. The bill as presented differs in many essential particulars from that first reported and referred back to the committee. Two commissioners are assigned to the Territories instead of one, and eight additional representatives from the country at large are provided for. The national body so formed has been given the title of 'The World's Exposition Commission.'

It is also provided that this commission shall accept the World's Fair buildings, if they conform to the objects and uses had in view. The original bill contained a provision that a minimum of five millions of dollars must be subscribed by persons in good financial standing, and at least 10 per centum of that amount be paid in, before the commission shall be authorized to perform any official function. The bill, as now worded, is even more cautiously worded, and demands that the Exposition company shall at any time, when necessary for the completion of the work, provide that sum. The committee has carefully examined the subscription list sent in by the Chicago Committee on Finance, and concludes that the subscriptions have been made by reliable and competent persons, and will be paid. * * * The committee therefore deems it a duty to recommend that the World's Fair be held in Chicago. ** The sixth chapter does not appear in the original bill. It defines the duties and powers of the commission, and empowers it to assign space to exhibitors, to select the judges for the distribution of awards, and their assistants, and conduct all negotiations with representatives of foreign nations. The second chapter empowers the Exposition company of 1892 to change or modify the plans, with the consent of the commission, to fix the fee for entrance, and to formulate rules regarding the rights and interests of exhibitors and the public. The eighth chapter provides for the dedication of the buildings of the World's Columbian Exposition on April 30, 1892. In regard to the time of the celebration of the Fair there was a difference of opinion, each member of the committee reserving the right to cast his vote for such date as may seem advisable after mature deliberation. Chapter nine provides that the President shall have ample proof of the contribution of ten millions of dollars to the stock of the company before he shall issue his proclamation of invitation to foreign countries. Chapter sixteen limits the expenditure of government buildings at the World's Fair to $400,000. Chapter seventeen restricts all expenditures of public moneys in this connection to $1,500,000. Chapter eighteen appropriates money for maintenance of the National Commissioners while on duty, and for the payment of salaries and other administration expenses, subject to the approval of the Secretary of the Treasury."

Mr. Hatch, of Missouri, offered a minority report, calling for better evidence than had been furnished that a sufficiency of money had been subscribed by Chi-
COMMISSIONERS-AT-LARGE, WORLD'S COLUMBIAN COMMISSION.

1. A. G. Bullock, Massachusetts.
5. R. W. Furnas, Nebraska.
6. Patrick Walsh, Georgia.
8. Mars L. McDonald, California.
cutive Committee which had prepared in advance a ticket of forty directors to be
voted for. About noon the assemblage was called to order by Mayor Cregier,
who, on motion of Mr. James W. Scott, was made permanent chairman. Mr.
Scott was elected secretary on motion of Mr. Robert Lindblom. The chairman in
an opening address, said that the proposed list of directors had been made out in
order to facilitate proceedings, and not to forestall the wishes of the subscribers;
that the candidates submitted were men of approved capacity and character,
worthy to be organizers and managers of the great undertaking now in hand;
however, that every share-holder was at liberty to vote for the person of his
choice, whether his name was included on the submitted list or not. Mr. A. F.
Hatch, attorney for the incorporators, explained the usual parliamentary method
of procedure by such bodies. Mr. Carter Harrison offered a resolution, on
which he spoke at length, providing for an increase in the number of Directors
from forty to seventy-five, in order to afford adequate representation to the
West Side, constituting more than one-half of Chicago's population. It was not
necessary, he said, to exclude any of the persons already nominated, but thirty
more could be added in order to appease the dissatisfaction of the smaller stock-
holders, and to equalize representation from all sections of the city. Mr. Hesing
warmly indorsed this motion, and urged that the proposed manner of conduct-
ing the election was unjust and impolitic. The enterprise was one in which the
honor and interests of the entire community were involved, and to support which
every class of the population was to be taxed. It was not right that an insignifi-
cant number of subscribers, representing a capital of four millions of dollars,
should dictate a plan of operation to twenty-eight thousand other stock-holders.
Chicago, continued the speaker, is a cosmopolitan city, made up of the people of
all known nationalities, representing all pursuits and every station of life. In
the conduct of the Exposition, which was a public enterprise and could only be
successful by being popularized, all the varied interests at risk could not be
properly protected by the forty gentlemen so carefully selected by one element
of the meeting. He pointed out that in the ticket as formulated the South Side
had twenty-six candidates, the West Side with its preponderance of population,
ten only, while the North Side was granted four; that the four hundred thousand
German citizens were recognized by the selection of but two of their number, the
numerous Irishmen were given but one, while the Scandinavians, Bohemians,
French, Poles, Italians, had been neglected entirely. And yet, he said, all those
had struggled earnestly for the location of the Fair in Chicago, and had aided
the fund by their contributions. Mr. Hesing insisted on this view of the case
with frequent manifestations of approval from the audience, and he was sup-
ported by Messrs. Voeke, Mitchell and others. Mr. Harrison also indulged in a
spirited protest against the programme as announced. Mr. Thomas B. Bryan
restored temporary harmony to the meeting, which had grown tumultuous, by
exclaiming, "Let us have peace," and by observing that "only the enemies of
Chicago could derive any satisfaction from strife between the stock-holders." But
he sustained the view that a majority of the stock must determine all con-
tested questions. It was proper that the men who had furnished the great
bulk of the money should have the controlling voice in its disbursements. No
one had ever heard of the affairs of a corporation being conducted on any other
theory. At the conclusion of Mr. Bryan's remarks, Mr. Hesing assented to a re-
quest by Mr. Harrison, and withdrew his appeal to the assembly. A vote was
taken on the original proposition of Mr. Lawson that forty-five directors should
be chosen. The total votes cast were 300,789 shares; of which 246,444 favored
that plan of organization, and 64,385 favored an increase of representation.
Attempts were now made to postpone the election, and to submit one hun-
dred and fifty names to the stockholders, from which the selection of forty should
be made—but all were voted down. Nominations were declared in order, and
were made to the number of one hundred and fifty. Among the names prop-
osed were those of Charles Henrotin, Washington Hesing, Warren Leland, C.
HON. LYMAN J. GAGE,
FIRST PRESIDENT WORLD'S COLUMBIAN EXPOSITION.
T. Yerkes; but they declined to be candidates. The roll call was ordered to proceed, and while the vote was being taken, various routine business was transacted, and a telegram was ordered to be sent to the United States Senate urging prompt action on the Exposition bill. At 4:15 p.m. the voting came to an end, but it was midnight before the tellers and judges completed the count, and announced the composition of the directory as subjoined:


April 10th Mr. Hatch, attorney for the incorporators, obtained from the Secretary of State a certificate of charter of the Exposition company, and this document was registered in the office of the recorder in Chicago. The paper, containing the names of twenty-eight thousand stockholders, was one of the most voluminous ever filed in that office, and the fee for registration amounted to $195.00.

April 12th the first meeting of the Board of Directors was held at the Sherman House, and a temporary organization was affected by the election of Mr. Edward Walker as chairman. On the 20th steps were taken by the board to inaugurate efforts for increasing the capital stock to ten millions of dollars, a necessity which had already become manifest. By this time the intelligence was communicated from Washington that President Harrison had signed the Exposition bill as passed by both houses of Congress; and on April 28th the Provisional Committee, having completed the great preliminary work entrusted to their execution, held their last meeting, and prepared to give an account of their stewardship. Treasurer Onahan submitted his balance sheet, and Messrs. Creigier, R. A. Keyes and L. J. Gage were directed to report to the Directors of the Exposition and transfer to their body the papers and other property of the committee together with all moneys on hand; the directory to assume all outstanding indebtedness of the retiring authorities, and the latter to be relieved of all further obligation as to the two and a-half per cent. which had been raised on the original subscriptions. So terminated a chapter in the history of the Fair, which reflected credit on all who were concerned in it.

On April 30th the directors met and proceeded to the election of permanent officers. Mr. Lyman J. Gage was by acclamation chosen to be president.

[Lyman J. Gage, who was president of the World's Columbian Exposition in its formation period, has a national reputation as a banker and financier. Immediately on the organization of the company all eyes turned to Mr. Gage as the man of all others to create public confidence and to give guarantee of the good faith and strength of resolution with which the people of Chicago had pledged themselves to capitalize and maintain the Exposition. His name was a tower of strength in attracting financial aid to the scheme, and the results of his labors are notably apparent in the preliminary steps which made the Exposition possible. His will, energy, and indeed his presence, seemed to be everywhere in the early days of the enterprise, whether in enlisting the support of capitalists, in satisfying the skepticism of the timid, in overcoming the opposition of rival cities, in meeting the objections raised by Congress, in composing the local jealousies, in exhorting the State Legislature and City Council to a liberality worthy of the occasion, in procurement of suitable grounds for exhibition purposes, or in creating a broad, generous and comprehensive plan for the reception and entertainment of the nations. When he laid down the responsibilities of the office, it is no disparagement to his successors to say that during his administration the foundations of success were laid deep and broad, and that the Exposition owes an immeasurable debt to its first president. Born in 1830, Mr. Gage has had an opportunity to witness the various events and calamities of the nation, and he has been a resident of Chicago since 1855; he is familiar with the financial growth and history of this far-famed city, at the same time he has been one of the recognized leaders in the profession of banking. Before he was elected president of the First National Bank, his present position, he served eleven years as cashier in the Merchants' Loan and Trust Company's bank.]

WORLD'S COLUMBIAN EXPOSITION.

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This long experience, together with his natural talent, has eminently fitted him for the management of the second largest banking institution in the world. When Mr. Gage resigned his position as president of the World’s Fair Directory, he was presented with a book designed especially for him. It is illuminated throughout in the style of the ancient prayer-books. It has fine hand-paintings of the Exposition buildings, and allegorical representations of the different industries. The motto opposite his portrait is:

"Honor and fame from no conditions rise;
Act well thy part, there all the honor lies."

The title page is announced as follows: “Testimonial and resolutions unanimously adopted by the Board of Directors of the World’s Columbian Exposition on the retirement of its president, Lyman J. Gage.”

With like unanimity Messrs. Thomas B. Bryan and Potter Palmer were elected first and second vice-presidents respectively. President Gage accepted the presidency in appropriate language, pointing out the magnitude of the task before the board, pledging his every effort to the enterprise, and urging harmony and co-operation upon his colleagues. On motion of Mr. Schwab a committee, consisting of Messrs. Palmer, Medill and Strong, was ordered to report at the next meeting on the question of salaries and other details.

May 7, 1890, the work of organization was mapped out. The books of the temporary treasurer, W. J. Onahan, were reported to be correct, and a resolution of thanks was tendered him. Mr. Palmer’s committee reported and its recommendations were sustained. A. F. Seeberger was chosen treasurer, and W. H. Ackerman, auditor. On motion of Mayor Cregier a call was authorized of $1.80 upon each share of stock, payable on the 1st Monday in July. Mr. Bryan secured the adoption of a resolution providing for a general meeting of the stockholders on July 12, 1890, to consider the following proposals and recommendations of the directory.

1. To increase the capital stock to ten millions of dollars.
2. To change the name of the company to the World’s Columbian Exposition.
3. To adopt by-laws and approve the intermediate action of the directors.

After providing for a Committee on Ways and Means, to consist of thirteen members, and instructing the secretary to offer at the next meeting a design for the Corporate Seal, the standing committees were announced.

The Executive Committee was to be composed of the president, the two vice-presidents and the chairman of each committee.

At this juncture the advisability of securing the co-operation of the State of Illinois became apparent; in fact certain legislation was essential to the provision of a suitable site. On May 23d the directory adopted resolutions submitted by the Finance Committee as follows:

To request Governor Fifer to call a special session of the General Assembly of the State of Illinois previous to July, 1890, to decide the following questions:

1. To bring in a bill for the taking of a popular vote upon a proposition so to amend the Constitution of the State as to allow the City of Chicago to emit bonds to the amount of five millions of dollars, to be used for the purpose of the World’s Fair.
2. To adopt a law authorizing the use for Exposition purposes of either of the public places under control of South, West or North Boards of Park Commissioners in Chicago, and empowering said Boards to issue bonds to cover the expense of beautifying said parks, respectively—this enactment to contain also such regulations as might be deemed necessary concerning the use of the Lake Front.
3. To take the necessary measures and grant the necessary means for a State exhibit at the Exposition.

June 9th, the city council, in response to an urgent appeal from Mayor Cregier, supplemented the above by the subjoined preamble and enactment:

WHEREAS, The City of Chicago has pledged itself, by her citizens, to the Congress of the United States to take care of the holding of an International Exposition; and whereas it is appropriate that the city (in its corporate capacity) should aid in this grand enterprise financially and otherwise, and insure its success; and whereas the city possesses now no fund applicable to the object in view, therefore,

Resolved, That the bonded debt of the city must be increased in order to provide the necessary aid for this project; and be it further.
COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. Patrick H. Lannan, Utah.
5. Albert A. Wilson, District Columbia.
8. Thos. E. Garvin, Indiana.
10. Walter Aiken, New Hampshire.
12. Lyman B. Goff, Rhode Island.
14. Phillip Allen, Jr., Wisconsin.
COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. Frederick G. Bromberg, Alabama.
2. Oscar R. Hendley, Alabama.
3. Michael H. de Young, California.
4. Wm. Foerster, California.
5. C. F. A. Biely, Florida.
12. Wm. F. King, Iowa.
13. Davidson B. Penn, Louisiana.
15. Augustus R. Bixby, Maine.
Resolved, That this Council respectfully requests the Governor of the State of Illinois to convene an extra session of the Legislature, and to set forth in his message as the main object of such session an amendment to the constitution granting to the city of Chicago authority to increase the bonded debt by the sum of five millions of dollars for the purpose set forth above.

On the 10th of June a delegation of directors proceeded to Springfield under leadership of Vice-President Bryan, to confer with the governor, and received prompt and cordial assurance of his co-operation to the ends desired. Accordingly, on the 13th, that official gave out the proclamation and call. The document covered the ground suggested by the directors and the city council in their resolutions, and fixed Wednesday, July 23d, as the date of the special session.

The governor's proclamation was in exact accordance with the resolutions given above, and he gave the full weight of his official influence to the measures proposed; but the Legislature did not at once pass the enabling acts, requiring further information on many of the subjects involved, particularly as to the status of the Lake Front.

Up to the meeting of the stockholders held at Battery "D" in 1890, the entire structure rested on the charter from the State of Illinois, in which Hon. DeWitt C. Cregier, Messrs. Ferd. W. Peck, George Schneider, Anthony F. Seeberger, William C. Seipp, John R. Walsh and Nelson Blake were named as the incorporators. The enterprise then attracted recognition by the Federal Government.

On the 26th of May, 1890, President Harrison, in obedience to the Act of Congress, appointed members of the National Commission on nominations made by the Governors of the several States and Territories, and the commissioners-at-large authorized by law. On the 5th of June, Hon. James G. Blaine, Secretary of State, issued a circular letter, convening the first session of the Commission at the Grand Pacific Hotel in Chicago, on the 25th of the same month.

On the 26th of June, Commissioner A. T. Ewing of Illinois, took the seat reserved for the presiding officer in the parlor of the Grand Pacific Hotel and rapped for silence with a stroke of the gavel. Mr. Ewing said:

Gentlemen of the Commission: I am directed by the Department of State to call this meeting to order, which I now do in the name of the United States. I bid you welcome to Chicago, and am sure that wisdom and unity of purpose will mark your deliberations.

A prayer for Divine blessing on the assembly was offered by Rev. John Barrows.

Hon. John T. Harris, of Virginia, was elected temporary chairman, and R. R. Pierce, temporary secretary.

On motion of Commissioner McKenzie, of Kentucky, amended by Mr. Walker, of Connecticut, a committee of twelve was ordered to be appointed by the chairman, to report the offices necessary to be filled to constitute a permanent organization. During a lull in the proceedings, but while the subject of an election of officers was under informal discussion, Mr. Thatcher, of New York, read a telegram from the Hon. C. M. Depew, in which that gentleman requested that "his name should not be used in connection with the presidency of the Commission, as he was about to undertake an extended trip to Europe, etc." Pending a report from the Committee on Permanent Organization, the meeting adjourned until the following day.

During the evening the commissioners were tendered a reception and banquet at the Palmer House by the Directory, the entertainment being under the management of a committee, consisting of Messrs. T. B. Paine, L. D. Thoman, C. F. Cregier, George H. Parker and H. Sheldon. During the festivities which ensued, Judge Thoman presided. On his right was seated Chief-Justice Fuller, of the Supreme Court of the United States; on his left, Bishop Fallows. Next to Judge Fuller, Hon. John T. Harris, of Virginia, sat, and in adjoining seats of honor were gathered Lyman J. Gage, Judge Gresham, Messrs. Cregier, Ewing, Bryan, Peck, and many other notabilities. The addresses delivered after the banquet were remarkable for the unanimity of sentiment which characterized them. Every
utterance bespoke the determination which pervaded all minds, to labor diligently and with singleness of purpose for the common cause.

When the commissioners re-assembled, pursuant to adjournment, on June 27th, Mr. McKenzie, from the Committee on Permanent Organization, submitted a partial report which was unanimously adopted; and which provided for the election of a president, five vice-presidents, and a secretary; the first vice-president to be of opposite politics to the president, and the other four to be equally divided in politics. Nominations being called for, the office of president was filled by the unanimous election of Hon. Thos. W. Palmer, of Michigan, who was escorted to the chair and accepted his high duties in the following language:

**Gentlemen of the Commission:** I am profoundly grateful for the compliment that you have paid me; and yet, in accepting the compliment, I am infused with a feeling of trepidation as to what it involves. Men, as a rule, shrink from the trials of the unknown, and that general clause in the definition of the duties of the president, seems to me to involve much more than we would suppose at a first glance. It places a great deal upon the president; and it may take a great deal away from him. In either case, he proposes not to complain. I have heard it said that when the throes of birth were not severe in the delivery of a child, the child was liable to be of little worth thereafter. On that account I regard my election by acclamation as a poor augury for my future. If there had been a little more of a struggle, it might have given me a greater experience of the peril, of the hardship of my next few years. In regard to that distinguished man whose name has been proposed in connection with the presidency—that admirable Crichton of America, that man who is always first in finance, at the social board, on the rostrum, or in my own life—I would say that if he could have his way, and I believe it would have given us greater prestige abroad and at home. I telegraphed to him that it had been suggested to me that if he were willing to become a candidate, I would decline to have my name presented; but the circumstances were such that Mr. Depew felt that he could not give it the time, and, therefore, I became a willing sacrifice.

The Chair now awaits the pleasure of the Commission.

[Thomas Wetherill Palmer comes of a sturdy stock, his ancestors on both sides having been among the early settlers of the continent which Columbus opened up to civilization. His mother was the late Mrs. Eliza Palmer, in direct descent from the old New Englanders, and her father, a native of Massachusetts, and one of those who fought with Warren at Bunker Hill, was after the Revolution appointed by President Jefferson to a federal judgeship in the Territory of Michigan, and held court in the wilderness while yet Tecumseh was a living terror to the land. Thomas, the father of President Palmer, had birth in the State of Connecticut, but was a pioneer in the settlement of the Northwest, and the year 1809 found him already on the frontier line, conducting a lucrative trade with the Indians at the post of Detroit, where twenty-one years later, June 28, 1830, the subject of our sketch was born. Mr. Palmer literally grew with the country, and by the time that his manhood approached Territories had become States, forests had given way to cities, society had taken root in the land of the savage, and the spire of the church and belfry of the school were rising from the bosom of the prairies. He enjoyed the benefit of an excellent scholastic education, was assiduous in his studies, passed through the course at St. Clair College, and took his degree of graduation at the University of Michigan. Some months were then passed in foreign travel, and while abroad he made a pedestrian tour of Spain and acquired such familiar intimacy with the language and the people of the country as was afterward to serve a valuable purpose to his own government. Returning to this country Mr. Palmer entered upon mercantile pursuits, was for some time engaged in business in Wisconsin, and subsequently conducted large enterprises in Detroit, where he now resides. His success as a merchant was the result of diligence and probity which also secured the esteem of his fellow citizens. Later on in life Mr. Palmer became an active participant in politics, acquiring large influence, and filling many positions of trust with honor to himself and to the satisfaction to his constituents. He was a member of the Board of Estimates of the State of Michigan, and later served in the Legislature for several terms as a member of the Upper House. Bringing to each and every station an enlightened intelligence and strong sense of duty, he was now chosen as one of Michigan's representatives in the Senate of the United States, occupying this high position for the full term of six years. In 1887 Senator Palmer was chosen president of the Water-ways Convention, held in Sault Saint Marie under the auspices of the Duluth Chamber of Commerce, and in that relation rendered valuable assistance to the cause of inter-lake navigation. In 1889 he was appointed by President Harrison, minister plenipotentiary and envoy extraordinary to the court of Spain.]

Mr. Massey, of Delaware, offered the following resolution, which was unanimously adopted:

Resolved, That the Committee on Permanent Organization be instructed and directed to consider the matter of the several vice-presidents and other officers designated by their report just presented, and make recommendation to the Commission of suitable nominees for the same; and before determining upon their recommendation, that they shall sit for two hours to hear the individual views and preferences of such members of the Commission as may desire to address them in that behalf.
HON. THOMAS W. PALMER,
PRESIDENT WORLD'S COLUMBIAN COMMISSION.
On motion of Mr. Kernes, of Missouri, the Commission proceeded to the election of a permanent Secretary.

Mr. Skiff, of Colorado, presented the name of Mr. John T. Dickinson, of Texas, which was seconded by Mr. Ruoker, of North Dakota.

Mr. Dickinson was unanimously elected secretary.

On taking his place at the secretary's desk, Mr. Dickinson made the following remarks:

Gentlemen of the World's Columbian Commission: Permit me to express to you my sincere gratitude for the high compliment you have paid me, and through me the State of Texas, which I have the honor, in part, to represent in this Commission, by electing me as your secretary. I fully realize the magnitude of the enterprise which we are about to inaugurate, and if I did not conscientiously believe that I could successfully perform the duties of secretary of the World's Columbian Commission, with credit to myself and to my State, and ultimately, I trust, to the satisfaction of this Commission, I would not have been a candidate for the honor. Having had considerable practical experience as secretary and general manager of fairs and expositions, I shall enter upon the discharge of the duties of this important office, feeling always the responsibility of the position, and with the assurance of your confidence and support, I will endeavor to bring all the fidelity, intelligence, zeal and industry I may possess toward the satisfactory performance of the varied and exacting duties that belong, both directly and indirectly, to the office of the secretary of the World's Columbian Commission. Again thanking you for the honor conferred upon me, I will now proceed to enter upon the discharge of the duties of the office. [Applause.]

[John Thilman Dickinson was born in Houston, Texas, June 18, 1858, descended from a sturdy line of ancestors, who, on many a hard fought field, poured out their lives amid the fires of martyrdom. Scotch history is permeated with the name of Dickinson, and always in connection with deeds of valor and honor. Early an orphan, Col. Dickinson was educated liberally at home and abroad, and graduating in several of the Academic schools of the University of Virginia, in June, 1879, received the diploma of Bachelor-of-Law from that venerable institution. Returning to Texas he became one of the owners and the editor of the Houston Telegraph, and entered at once and actively upon public life. In January, 1881, while on a visit to Austin, the capital of the State, he was elected secretary of the House of Representatives of the Texas Legislature, and in May, 1882, was elected secretary of the Texas State Capitol Board for supervising the construction of the largest State House in the Union and probably the largest red granite building in the world. During this time he was also elected secretary of the State Penitentiary Board, and several other State boards, and filled these positions under three governors, Hon. O. M. Roberts, Hon. John Ireland, and Hon. L. S. Ross, and also served on the staff of Governor Ireland with the rank of colonel. In 1888 Col. Dickinson was elected general manager of the International Fair Association of San Antonio, and conducted the organization and preparation of the Texas-Mexican Exposition which was successfully held in that city in November of the same year. This was regarded by the people as the best arranged and most attractive exposition of the products and resources of Texas and Mexico that had ever been held in the State. He remained in San Antonio as secretary and general manager of this Exposition Association until he visited Chicago at the time this city entered the contest for the location of the World's Fair. His services were immediately engaged and he was sent to interview members of Congress in several States in behalf of Chicago; he met the Chicago committee in Washington in December, 1889, and remained with them until Chicago was victorious in the contest. When the bill had passed, creating the World's Columbian Exposition, and providing for two commissioners from each State, Colonel Dickinson was appointed by General L. S. Ross, Governor of Texas as the Democratic commissioner to represent that State.]

On motion of Mr. Widener the following resolution was adopted.

Resolved, That a committee of seven be appointed to communicate with the local directors of the World's Columbian Exposition of Chicago, and notify them that this Commission is now permanently organized and prepared to receive any communications they may have to submit.

The next day, June 28th, the organization was further perfected by election of the following vice-presidents, from first to fifth, in the order in which they are named: Thomas M. Waller, Connecticut; M. H. DeYoung, California; Davidson B. Penn, Louisiana; G. W. Allen, New York; Alex. B. Andrews, North Carolina. The next step taken was to appoint a committee, consisting of Commissioners Smalley, Kernes, Bromberg, Thatcher, Widener and Sewell, instructed by resolution to investigate and report upon the following lines of inquiry: Whether the World's Columbian Exposition had secured the legally prescribed amount of subscriptions to the capital stock; whether, in fact, the tenth part, or 10 per centum of such subscription had been paid in by the shareholders; and whether the corporation had instituted proper measures to obtain subscriptions
to an additional amount of five millions as contemplated by the Act of Congress.

After this the Commission met daily and were engaged in mapping out the details of a complete legislative and executive organization. During these sittings the following resolution was adopted:

Resolved, That this Commission is satisfied that the World's Columbian Exposition of Chicago has an actual, bona fide, and valid subscription to its capital stock which will secure the payment of at least five million dollars, of which not less than five hundred thousand dollars has been paid in, and that the further sum of five million dollars, making in all ten million dollars, will be provided by said corporation in ample time for its needful use during the prosecution of the work for the complete preparation of said Exposition.

On the 3d of July an adjournment was had to October 8, 1890, unless sooner called together by the president.

The second session of the Commission convened September 15, 1890, in answer to the call of President Palmer. Reports were received from the various committees appointed at the July session, and were ordered to be printed for future consideration.

In the discussion of a site for the Exposition, the Lake Front figured prominently as one of the projects, and for a while its acceptance seemed probable, but July 2, 1890, the Commission formally accepted Jackson Park and Midway Plaisance as the site, the Committee on Titles and Facilities of Transportation having given the matter careful attention. That committee reported that "so far as the title to Jackson Park and the Midway Plaisance (embracing 633 acres) is concerned, they believe it is vested in the World's Columbian Exposition, by the Act of the General Assembly of the State of Illinois passed at its recent session, and by ordinance of the South Park Commissioners, and is such a title as confers the right to use these parks as a site for the World's Columbian Exposition during the period required."

In October, 1890, the Committee on Grounds and Buildings appointed Mr. D. H. Burnham as chief of construction, and on December 8, 1890, the consulting architects, the consulting landscape architects and the consulting engineer formed a consulting board under the chairmanship of the chief of construction. Late in November, 1890, the consulting board, under its instructions, entered upon the duty of devising a general plan for the Exposition, taking as a basis for the study of the problem the classified list of exhibits which had been prepared by a committee charged with that duty. The list, together with such advice received directly from the committee, dictated the number and the size of the buildings which would be required to meet the intention of the Act of Congress. The larger part of the site to be dealt with was a swampy, sandy flat, liable at times to be submerged by the lake. Other parts were low ridges, which had originally been sand bars thrown up by the lake. Upon some of these ridges there were trees, most of them oaks, of stunted habit because of the sterile and water-soaked soil in which they had grown, and the extreme exposure to frigid winds from the lake; to which they had been subject to a late period every spring. The idea was that there should be a system of navigable water-ways, to be made by dredging-boats working inward from the lake through the lowest parts of the site, the earth lifted by the boats to be so deposited as to add to the area, and increase the elevation of the higher parts, which would thus become better adapted to pleasure-ground purposes, and to be used as the sites for the buildings of the Exposition.

The plot contemplated the following as leading features of design: That there should be a great architectural court with a body of water therein; that this court should serve as a suitably dignified and impressive entrance hall to the Exposition and that visitors arriving by train or by boat should all pass through it, that there should be a formal canal leading northward from this court to a series of broader waters of a lagoon character, by which nearly the entire site would be penetrated, so that the principal Exposition buildings would each have a water, as well as a land frontage, and would be approachable by
HON. W. T. BAKER,
EX-PRESIDENT OF THE WORLD'S COLUMBIAN COMMISSION.
boats; that near the middle of this lagoon system there should be an island, about fifteen acres in area, in which there would be abounding clusters of the largest trees growing upon the site; that this island should be free from conspicuous buildings and that it should have a generally secluded, natural, sylvan aspect, the existing clusters of trees serving as centers for such broad and simple larger masses of foliage as it would be practicable to establish in a year's time by plantations of young trees and bushes. Because the water in the lagoons would be subject to considerable fluctuations, it was proposed that its shores should be occupied by a selection of such aquatic plants as would endure submergence and yet survive an occasional withdrawal of water from their roots.

Time pressing, the plot, with a brief written specification, was submitted to the corporation, and, after due consideration, on the 1st of December, 1890, was adopted as the plan of the Exposition. Shortly afterward this action was approved by the World's Columbian Commission, and an order given to proceed with the execution of the design. The plot presented no studies of buildings other than the outlines of the space to be occupied by those, ten in number, which had been contemplated in the instructions received by the Consulting Board from the Committee on Classifications. More than two hundred buildings of varying dimensions have since been introduced, and the process of adjustment by which sites were formed for these, without material departures from the primary motives of the general plan has required the constant exercise, upon the part of those charged with this duty, of much ingenuity and discretion. The next step was the selection of architects to design the buildings, and the committee authorized Mr. Burnham to select five architects outside of the city of Chicago to design the five principal buildings around the court. Later Mr. Burnham was authorized to appoint five architects from Chicago to design the remaining buildings which had been determined on. The committee determined, however, to select an architect for the Woman's Building by competition, to be confined strictly to women. By March 1, 1891, the chief of construction having apportioned the work among the architects, was enabled to form an estimate of the work to be done by his department. Roughly speaking, it consisted of reclaiming nearly seven hundred acres of ground, only a small portion of which was improved, the remainder being in a state of nature, and covered with water and wild-oak ridges, and in twenty months converting it from a sedgy waste by the borders of an inland sea, into a site suitable in substance and decoration for an exposition of the industries and the entertainment by the republic of representatives of all the nations of the world. On its stately terraces a dozen palaces were to be built—all of great extent and highest architectural importance—these to be supplemented by hundreds of other structures, some of which were to be almost the size of the Exposition buildings themselves; great canals, basins, lagoons, and islands were to be formed; extensive docks, bridges, and towers to be constructed. The standard of the entire work was to be kept up to a degree of excellence which should place it upon a level with the monuments of other ages. It meant, in short, that an organization must be quickly formed which should associate the ablest architects, landscape designers, painters, sculptors, and engineers of the country. By the summer, all of the ten buildings first designed were under contract. From that time on, the work of designing and of construction was carried forward most urgently by day and by night, and all arrangements of the construction department were completed and in readiness for the opening.

In October, 1892, the title of Director of Works was conferred on Mr. Burnham with enlarged duties and powers added to those already exercised by the chief of construction.

Early in the first session the Commission had decided to elect the director-general upon nomination of the directors of the Exposition, and during successive meetings, up to September 19th, the duties and powers of that office were the subject of legislation. On that day President Palmer, as chairman of the Executive
Committee, presented the recommendation by the latter body, for the selection of Colonel George R. Davis; and therewith forwarded communications from the Executive Committee of the directory:

CHICAGO, September 18, 1890.

Hon. THOS. W. PALMER, Chairman Executive Committee, World's Columbian Commission:

DEAR SIR: Acting under the courteous invitation extended by your committee to this board to express its preference in favor of one of the several candidates whose names are before you for appointment as director-general of your commission, the subject-matter of your invitation was submitted to our Board of Directors at a meeting held this evening.

After some discussion a vote was taken, resulting in a majority of the board in favor of Colonel George R. Davis.

This may therefore be received as an expression of the preference of this board upon the question.

Thanking you and your committee for their courtesy in this matter,

I am, very respectfully yours,

Lyman J. Gage.

President of the World's Columbian Exposition.

And Mr. Sewell, of New Jersey, submitted the following from a minority of the same committee:

The undersigned members of the Executive Committee respectfully dissent from the above report, and present for the position of director-general, the name of General Daniel H. Hastings, of Pennsylvania. We believe that he possesses every qualification for this responsible position, and most earnestly urge that his selection will meet the best thought of the land, that the Columbian Exposition is in no sense local, and in every sense national.

W. J. Sewell,
E. Kontz Johnson,
A. T. Ewing,
L. H. Hershfield.
E. W. Breed.

An informal ballot was taken on the candidates so named, and Colonel Davis received a majority of all the votes cast, whereupon he was selected unanimously on motion of Mr. McClelland, of Pennsylvania, and a committee was appointed to notify him of that fact. Colonel Davis having been introduced by the president, made his acknowledgments to the Commission as follows:

MR. PRESIDENT AND GENTLEMEN OF THE NATIONAL COMMISSION: Your committee has just notified me of the distinguished honor that you have conferred upon me this morning. The selection made from Illinois and Chicago is complimentary to the city and State, and for the Local Board of Directors, for my city, my State, and myself I sincerely thank you. The selection of the director-general from untried men—men who have not had great experience—was a task for you to perform in which I most heartily sympathize with you. It is necessary in selecting a man for this position that you take much for granted, for an exhibition of an anniversary that comes only once in a hundred years leaves you but few men to select from who have had great experience.

In the discharge of the duties of this great office I will bring to it all the physical and mental forces that I command. The conduct of the office shall be of high grade, and it will be my duty to conform strictly and in every detail to the wish of this distinguished body. Politics have been referred to, and as I understand the position I desire to say one word in regard to that, and that is that I recognize that the constituency that elects me here to-day consists of one-half Republicans and one-half Democrats. It will be the duty of an honorable man to so conduct his office in his intercourse with all who come in connection with him—in the appointments that he has to make—to recognize that fact; and from the fact that it was a suggestion of my own, formulated by myself, and favored by myself when it was put in the Act of Congress, recognized as 'the spirit of the Act of Congress.' I will not, as your director-general, in any way fail to observe it in every particular.

The office will be conducted strictly upon business principles. I recognize that you require in all such officers as may be placed under my command the highest talent, the best ability, and the greatest capacity that we can command; that this is a National Exposition and an International Exposition and not a Local Exposition; that we will draw our forces from the country, draw our forces from wheresoever they may come, provided they are equal to the emergency.

The administration of my office will be an example, so far as it is possible for me to make it such, of the application of legal principles to business methods with military discipline.

I thank you, gentlemen, for the compliment, and am prepared to enter upon the duty.

[Colonel George R. Davis was born in the town of Palmer, Mass., in the year 1840, the son of Benjamin and Cordelia (Buffington) Davis, the former a native of Wiscasset, Me., and the latter a member of a well known Quaker family of Connecticut. George attended the public schools, and in other respects passed his boyhood after the manner of New England boys, and later prepared for college, graduating from Williston Seminary at Easthampton. This was just prior to]
HON. GEORGE R. DAVIS,
DIRECTOR-GENERAL WORLD'S COLUMBIAN EXPOSITION.
the opening of the War of the Rebellion, so that instead of entering college, as he had anticipated, he, at the age of twenty-two, responded to the call for volunteers, and enlisted in the army as a private in Company H, Eighth Regiment Massachusetts Infantry. By gradual promotion he rose to the rank of captain, and in that capacity served with the Eighteenth Army Corps in the North Carolina campaign until August, 1863. Resigning his commission, he now returned to Massachusetts, clothed with proper authority, and recruited and organized a battery of light artillery. From this he was soon transferred to the Third Regiment Rhode Island Volunteer Cavalry, with the rank of major, and commanded it until the close of the war in 1865. After the war was over, Colonel Davis received an appointment in the civil department of the regular army, and was attached to the Department of the Missouri, of which General Sheridan was then in command. He served in the West with General Sheridan in the Indian campaign of 1868 and 1869, of which the engagement at the headquarters of the Washita was the most decisive, resulting in the defeat and routing of the famous chief "Black Kettle" and his band.

Colonel Davis was on duty at the headquarters of General Sheridan when that commander was stationed in Chicago in 1869, and continued his connection with the army until May 1, 1871, when he resigned and took up his residence in Chicago, where he has made his home ever since. Colonel Davis has always been an active and stanch Republican, and since his residence in Chicago has held a conspicuous place in the councils of his party as a recognized leader. He was elected to the United States Congress from the Second District of Illinois in 1878, and re-elected for the two succeeding terms. As a congressman Colonel Davis naturally took a prominent and leading place, and was one of the few of Chicago's representatives to that body whose efforts in behalf of their constituents were crowned with success. Among the important acts of legislation in which he took a prominent part, it is but just to say that securing a large appropriation for improving the Chicago harbor was chiefly due to his efficient and faithful work. In 1886 he was elected county treasurer of Cook County, Illinois, for a term of four years. When it was decided by Congress to celebrate the four hundredth anniversary of the landing of Columbus on American soil by a World's Exposition, Colonel Davis was one of the foremost in the promotion of the enterprise. A man of fixed opinions, iron will, unflagging perseverance and unusual executive ability, he at the same time possesses a tireless energy, and whatever he attempts stop at nothing short of its attainment. He is a man of great personal magnetism, courteous yet dignified in manners, generous, kind hearted and genial, and has always attracted to himself many warm friends. With his splendid qualities of mind and heart he combines a finely proportioned physique, being strong in structure and of robust constitution. He is a handsome man in both form and feature, and a mass of iron-gray hair gives a distinguished air to an otherwise striking personality. Colonel Davis was married, in 1867, to Miss Gertrude Schulin, of New Orleans, Louisiana, by whom he has two sons and four daughters.

The World's Columbian Exposition produced events, which, in many cases were co-incidental with and in some cases ante-dated the proceedings of the World's Columbian Commission (two separate and distinct bodies). Even before the voice of Congress had declared in favor of Chicago as the stage upon which the great Columbian drama should be enacted, the corporate powers of the city were invoked to give promise of such provision of means and facilities as would guarantee adequate accommodation to the guests of the nation; and when that voice had rendered the final verdict, among the most essential requirements of the situation was the procuring of such enactments from the State Legislature, from the Common Council of the city, and the Park Commissioners, as would legalize the occupation and use by the Exposition authorities of the public grounds considered most desirable for the purposes in view. Repeated offers were made by the director to obtain the grant of Washington Park in its entirety, but the commissioners remained firm in their determination to reserve this portion of the South Side system for the recreation of the citizens; consenting finally, however, to extend their original grant by the addition of the improved portion of Jackson Park and the Midway Plaisance, and making certain liberal concessions as to the preparation of the former. The end was reached on the 9th of September, 1890, when the directors by unanimous vote re-affirmed their decision of July.

When the first meeting of the stockholders was held in April 1890, bone-fide subscriptions exceeding $10,000,000 had been made, divided among nearly thirty thousand persons. After the organization of the corporate body by the election of directors, the first and most pressing task of the hour was to meet the condition by which alone the benefits of the Federal charter could be realized. It was determined to ask from the common council of the city of Chicago the issuance of five millions of dollars in bonds, the proceeds to be applied to the legitimate purposes of the Exposition; and on July 23, 1890, an ordinance was
passed, by a more than two-thirds vote, providing for the appropriation as asked and asking the sanction of the State Legislature to the ordinance. At the same time the mayor was directed to appoint a committee of five with instructions to proceed immediately to the capital of the State and communicate the action of the council to the governor. A committee from the Directors of the Exposition was also in attendance at Springfield in furtherance of the desired legislation.

On the 24th of July, 1890, bills so to amend the constitution as to enable the city of Chicago to issue bonds in behalf of the Exposition were introduced simultaneously in both the Senate and Lower House, and were referred to the Committee on Laws in both houses. These bills were drawn up by the directory, who sought the interests of the Exposition in the simplest and most direct form. But on the same day Mr. Berry presented to the House of Representatives a bill which differed from the above in requiring a popular vote to be taken on the constitutional amendment empowering Chicago to increase her bonded debt to the amount and for the purposes set forth. This and various other obstacles were interposed on alleged grounds of policy and principle. All the numerous propositions having been referred without debate, the whole matter came up for formal consideration, first before the Senate Committee on Laws. Vice-President Bryan advocated the original bill and opposed the delay that would be entailed by reference to a popular vote. He held that the constitutional prohibition of subscription by cities to private corporations did not apply in this case. That the object sought was a great public benefit, one for which a tax could be properly levied. On the 28th of July the directors, in response to the resolution of inquiry made reply in substance as follows:

The Board of Directors of the World's Columbian Exposition desiring to respond in a frank and proper spirit to the desire of the Legislature for information, submit that they have not at hand, nor is there at once attainable, the knowledge and the experience needful to determine in advance the details of classification and arrangement involved in "Exhibiting" the "arts, industries, manufactures and products of the soil, the sea, and the mines of forty or fifty thousand exhibitors from every portion of the earth;" that the work is colossal is beyond question, and not to be comprehended nor mastered except as the development progresses. It is deemed appropriate to submit a brief statement of the present situation of affairs, and to set forth the relations borne by the State of Illinois, the city of Chicago, and the directors of the incorporated body to the Exposition. By the Act of Congress, approved April 25, 1890, provision has been made for fitly commemorating the fourth centennial anniversary of the discovery of America by an exhibit "of the resources of the United States, their development and the progress of civilization in the world." The act declares that the exhibition should be of a national and international character, and authorizes the appointment of a Federal Commission, charged with certain duties of supervision and authority over the enterprise. That commission has been duly appointed by the President of the United States, and has entered upon its functions in reference to the inauguration and conduct of the Exposition. The question of locating the Fair developed upon Congress. Several States and the capital of the nation contested for the honor. Illinois petitioned to have the Exposition entrusted to her city of Chicago, and certain obligations were assumed in order to secure the favorable consideration of Congress. As one of the conditions precedent the citizens of Chicago were required to provide a fund of ten millions of dollars and produce satisfactory evidence that an eligible site for accommodation of the exhibition would be furnished; and assurances were also required that the State of Illinois and the city of Chicago as the custodians of the national credit would carry into effect to the extent of their resources the spirit and letter of the Act of Congress. The faith of the State and city was pledged by their accredited representatives before the world; and therefore Congress committed to Illinois and Chicago the honor so eagerly contended for by other communities; and thus were the people of this State committed to the duty and obligation of capitalizing and conducting the enterprise in a manner suitable to the occasion and creditable to the country. The citizens of Chicago provided by personal subscriptions five millions of the requisite sum, and they pledged their city by every assurance and act of the community to provide the five millions additional. Legislation by the city of Chicago and by the State of Illinois was indispensable to compliance with the terms prescribed by Congress. The impression has been created that in the disposition of the exhibits some injustice may be done, or is contemplated, to the agricultural interests of the State and country by divorcing that display from the main body of the Exposition. The allegation is unfounded and unjust to the directory, which fully recognizes that agriculture is the chief source of national greatness and prosperity, and as such is entitled to conspicuous prominence in an enterprise of this character. The Exposition will be conducted as an entirety notwithstanding the discussion of a dual site. It is the intention of this board to locate the agricultural and stock exhibits of the Exposition, so far as may be possible, in the same enclosure with the exhibits of machinery, manufactures, and other leading interests.
[Here follows a schedule of the prepared classification and arrangement of exhibits pertaining to the farming industry.] The document closed with the solemn assurance of impartial administration of the affairs of the Exposition, with a view to do entire justice to all classes of exhibitors and to achieve credit for the State. It was signed by Messrs. Lyman Gage, Thomas B. Bryan, Benjamin Butterworth, president, vice-president, and secretary of the Exposition, respectively.

On the 29th of July the Senate passed the bill so amending the constitution as to authorize the city of Chicago to issue five millions of bonds in aid of the Exposition, with the provision attached that the amendment should be ratified by popular vote before becoming operative. On the following day the measure in this shape was committed to a joint committee of the two branches of the Legislature. July 31st the House of Representatives took up the subject. The Senate disagreed to a House amendment releasing the State from all prospective liability for the bonds to be emitted by the city of Chicago, and then followed days of conference between the representatives of the two Houses with no other apparent result than that of intensifying the differences between them. At this juncture a new cause of division was found in an amendment stipulating that the "eight-hour law should be observed in erecting the buildings for the Exposition, and that in the employment of labor a distinction should be made in favor of American-born workingmen and such foreigners as should have previously declared their intention to become citizens of the United States." A lengthy and heated debate ensued upon the introduction of this proposition, but it was finally adopted in the House of Representatives by a great majority. The same body also appended another section to the bill prescribing a fine of not less than one thousand dollars for violation of the foregoing provision. As thus, and otherwise, added to and subtracted from, the measure finally passed the House of Representatives by a vote of 130 yeas to 16 nays. The Senate then adopted the measure, accepting most of the amendments, but rejecting those embodying the eight-hour law and referring to the submerged lands on the lake front. The House when informed of this fact decided to adhere to its position, and thus matters of difference were again submitted to a joint committee of the two bodies. However, the hopes so long deferred were now about to be realized; a spirit of compromise prevailed over less discreet and patriotic counsels; and on August 5, 1890, Governor Fifer applied his signature to the acts granting in substance all that the authorities of the Exposition had asked from the State.

The General Assembly thus swept away all legal obstacles to the occupancy of the park; and the seal of popular approval was affixed to the lending of Chicago's credit to the aid of the Exposition. Before the year the directory were able to report to the National Commission that the sum designated by Congress was available for use, and this fact was forthwith certified by the commission to the President of the United States, who, under date of December 24, 1890, made proclamation that the conditions and requirements imposed by Congress had been complied with; declaring that an International Exposition would be opened in Chicago on the first day of May, 1893; and, in the name of the government and people of the United States, inviting "all the nations of the earth to participate in the commemoration of an event that is pre-eminent in human history, and of lasting interest to mankind, by appointing representatives thereto, and sending such exhibits as will most fitly and fully illustrate their resources, their industries, and their progress in civilization." This document was enclosed in a formal letter of transmission from the Secretary of State to all the foreign governments with which this country has diplomatic relations, and was accompanied by copies of the regulations for foreign exhibits, regulations of the Treasury department governing the free importation of exhibits, and the prospectus of a proposed World's Congress Auxiliary.

This completed the official functions by which the Exposition was brought to an active condition, and the plans were ripe for execution.
1. Wm. G. Davis, Portland, Me.
2. James Hodges, Baltimore, Md.
3. Lloyd Lowndes, Cumberland, Md.
6. H. B. Moore, Duluth, Minn.
7. Orson V. Tousley, Minneapolis, Minn.
8. Joseph M. Bynum, Rienzi, Miss.
9. Robert L. Saunders, Jackson, Miss.
10. Thomas B. Bullene, Kansas City, Mo.
11. Chas. H. Jones, St. Louis, Mo.
12. Euclid Martin, Omaha, Neb.
14. Wm. J. Sewell, Camden, N. J.
15. Thomas Smith, Newark, N. J.
Friday the popular enthusiasm exceeded, if possible, that of the day before. The crowds of Thursday had gone home simply to restore exhausted nature. They appeared early the next morning in as great numbers, and the less congested condition of the streets was due to the effort of the multitudes to reach the South Park system. An inconsiderable proportion of the people was sufficient to pack the Lake Front, fill the stands erected along Michigan boulevard, and border the seven miles' line of march. The transportation companies going south were taxed to their fullest capacity, as the collection of 600,000 fares both ways amply testifies. Fully 250,000 people were carried to the parks on the trains, cable lines, and boats, and the number who walked, drove, or marched in the procession is scarcely to be estimated.

Promptly upon the firing of the salute at nine o'clock General Miles and his staff wheeled in front of the Auditorium in brilliant array, the United States Fifth Cavalry close behind, splendid in military trappings of gold and mounted on satin-coated bay horses. The Governors of the States with their gorgeous staffs seemed interminable. At Twenty-ninth street President Higinbotham's white marble palace was elaborately decorated with the flags of all nations. Here the crowd was densest, and the enthusiasm wildest when Mr. Higinbotham, Vice-President Morton, President Palmer, and other distinguished guests entered carriages and swung into the procession.

From this point the line proceeded, between banks of spectators, down the broad esplanade of Grand boulevard to Washington Park, where the United States Infantry were placed. Here the multitudes witnessed an inspiring scene—the military maneuvers—the full panoply of war. It proved an attraction second only to the dedication ceremonies, and amply repaid those who saw it for hours of waiting.

While it seemed the whole world was without the gates, nearly 100,000 people waited in the mammoth Manufactures' Building, seated comfortably in chairs. The immensity of the building silenced them. The decorations were necessarily on a massive scale and simple lines. From each of the twenty-seven trusses, that rise 200 feet to the roof, a United States flag was hung. The gallery at the north end, reserved for the bands, was draped in terra cotta; and the south gallery, where the chorus was massed, was festooned with oak-leaf ropes. The great stage, semi-circular in shape, was draped in American and Spanish colors, and hedged in with rows of potted cypresses in broad bands. A national flag draped the desk. Behind and above the stage the entire arch was a mass of festooned flags, over which hung the banner of Ferdinand and Isabella and their coat-of-arms. Flags of all nations filled every intervening space. But the crowning glory of the decorations was the official banner of the World's Columbian Exposition displayed for the first time. It is triangular in form, divided evenly at the staff. One-half the ground is blue, signalizing Lake Michigan; the other half is white, suggestive of the Exposition buildings; the fringe is of dark gold, which, with the white, makes the colors of Isabella.

The ceremonies themselves were profoundly impressive from the Columbus hymn to the benediction. The great audience was lifted up to heights of spiritual vision to perceive the meaning of centuries, in which only large events loomed like mountain peaks and trivialities were leveled and lost. The speakers were inspired to the loftiest flights of eloquence and each one uttered sentiments as noble as the deeds of which he spoke.

Bishop Fowler of the Methodist Episcopal church invoked a divine blessing. Director-General Davis delivered an address which was scholarly and classical in its diction. Mrs. Le Moyne read the Columbian Ode, written by Harriet Monroe, the young poetess of Chicago. It proved a surprise in its simplicity and strength.

The artists and architects of the buildings were then presented with the medal designed by Elihu Vedder, and Mrs. Potter Palmer advanced to the desk calm and smiling. She delivered an address replete with oratory and in a man-
ner at once pleasing and easy. In her remarks she gave a lucid account of the
initiative steps taken by the Board of Lady Managers without touching upon
politics, suffrage or other irrelevant issues, and foreshadowed the work the
board would do in the formation of a public sentiment, which will favor woman's
industrial equality, and her receiving just compensation for services rendered;
to secure for her work the consideration and respect which it deserves, and es-
establish her importance as an economic factor. She closed by expressing thanks
to the Congress of the United States for having made this great step forward
and also for having subsequently approved and indorsed the plans of the Board
of Lady Managers, as was manifested by their liberal appropriation for carrying
them out; her appreciation of the assistance given by the President of the United
States, the Department of State, and our foreign ministers, and hoped to have
occasion to thank all the other great departments of the Government before the
work was finished. No speech was more generously received than Mrs. Palmer's
dedictory remarks, and none elicited more favorable comments from the public
press.

President Higinbotham, on behalf of the Local Directory, tendered the
buildings to the National Commission, which President Palmer accepted and in
his turn bestowed upon the Nation in an appropriate speech.

In the absence of President Harrison, the cause for which he deeply de-
plored, Vice-President Morton accepted the buildings for the United States.

Impressive as these talks were, they made no pretense to oratory. When
Mr. Henry Watterson came down the rostrum cheers rose. Strong as was the
voice of the Kentuckian, it failed to fill the vast auditorium. Only a trumpet
could have done that. But back to the walls the people cheered both him and
Mr. Depew whenever the front rows applauded.

Almost before the applause died the chorus of 5,000 voices rendered "In
Praise of God," Beethoven's anthem, followed by the benediction, by Rev. H. C.
McCook of Philadelphia. The solemn "Amen" of the speaker was thundered to the
skies in the deep roar of the artillery, and the crowd dispersed to the mighty
voice of the National salute.

The pyrotechnics at night closed the ceremonies of dedication. Promptly
at 8 o'clock the flash-light from the Manufactures Building gave the signal. The
next instant three bombs burst simultaneously in Washington, Lincoln and Gar-
field Parks, cut long, curving streaks of light to the zenith, and fell in glittering
rainbow-colored balls like the jeweled ribs of a vast umbrella above the heart of
the city. Then a hundred balloons were loosed from their moorings in each
park, and when in mid-air discharged rockets which changed to glowing bub-
bles of vari-colored fire.

From the time of the dedication of the buildings and the formal transfer of
them to the authorities of the United States increased activity in the work was
noticeable. Upward of 10,000 workmen and employés were scattered over the
"White City," and at every unfinished building the work seemed to be in semi-
suspense, or to have the air of an industrial festival. Deliberation was the order
of the day, flavored, however, with eager interest and willingness. Good wages,
a little above the market rates, were a healthy incentive, and every mechanic
with a spark of fire in his nature must have been quickened by the magnificence
of his task. Also deliberation was a necessity in three-fourths of the work,
which required caution as well as judgment; for many aerial gymnasts were
perched from 60 to 260 feet in the air. Sky generalship of a high order was to
be seen under the arching roof of the great buildings. Here, after months of
patient lifting and fitting of unprecedented weights at great heights, each man
had grown to know his duty intimately. From some lofty perch the foreman of
a gang would conduct his men somewhat after the manner of the leader of an
orchestra. Whenever he fell short of the mark he would shout his general order
to an assistant half-way down, on the opposite side of the span, and the latter
would give fuller instruction to another assistant on the floor. After each move
all eyes would turn to the directing mind aloft. Under those roofs feats were accomplished worthy to have called forth a "wild surmise" from the Egyptians who piled the pyramids.

Manual labor also has its victory in these monumental buildings, and no doubt the descendants of those skillful artisans will preserve the tradition of their labors at the Exposition. Considering the chances for fomenting strikes, the bickerings have been slight and of only short duration. Every legitimate and reasonable position taken by organized labor was carefully considered by the Exposition authorities, and by them given respectful consideration. Strikes did occur, but they were not of a serious character, and all differences were settled on a fair and amicable basis shortly after they arose.

Looking now somewhat into the future the question arises, "Will it pay?" Liberal ideas have controlled the pursestrings, yet the financial problem has been handled with economy, and even with thrift. With the exception of the first London exhibition of 1851, world's fairs have been a costly luxury to their patrons; that fair, in covered area, was less than one-fifth the size of the Columbian Exposition; it was open 144 days, and the receipts almost doubled the expenses. In 1867 Louis Napoleon opened his second Paris Exposition, and, considering its success as a "dazzler," did not probably begrudge the wide difference between the expenses, which were $4,000,000, and the receipts, which amounted to $2,100,000. Eleven millions was spent on the Vienna Exposition of 1873, and ten millions of it went into the financial crash that it heralded. Under republican management, Paris, in 1889, produced a remarkable fair, a third larger than the Vienna Exposition, with the same outlay, and with a satisfactory income. Like the Philadelphia Centennial, the Parisian fair with its buildings covered only one-half the space of the Columbian Exposition. At Philadelphia the receipts ($3,800,000) fell nearly 60 per cent. short of the cost, which was $8,500,000. Circumstances and conditions are different, however, regarding this Exposition. From its very inception local pride and able financing were enlisted in the problem of making the World's Columbian Exposition pay expenses; more is not asked. Nearly all the subscriptions to the capital stock were given as a token of public spirit. When it became apparent in the spring of 1892 that the $14,000,000 or $15,000,000 then in sight would not complete the grounds and buildings on the scale that had been adopted to a point where it was impossible to turn back, the management appeared before Congress asking for a loan of $5,000,000. Congress declined the loan, yet gave $2,500,000 in souvenir coins. By the simple process of holding these coins at a premium of 100 per cent., the managers realized the full $5,000,000 from the kindly act of Congress, and increased the available funds to $20,000,000.

Up to April 1, 1893, there had been expended $16,708,826.48—a sum equal to twice the cost of the Paris Exposition.

Of this amount $14,411,506.74 has gone into the buildings. That amount represents every feature of construction at Jackson Park, including the preparation of the site and the cost of labor. General expenses, which include everything outside of construction, are figured at $2,206,644. This includes all salaries and almost every kind of incidentals. One of these items is $12,975 for removing ice and snow. From this it will be seen that the storms which enveloped the roofs last winter did considerable damage. The dedication ceremonies cost $221,158. The opening ceremonies cost but $5,000. It cost $108,000 to handle the souvenir coins. Traveling expenses have been $25,558, and the item of uniforms reaches $12,592, though this will be repaid. The stationery and printing bills are $49,925, and postage stamps have cost $52,684. Insurance companies have received $72,000 in premiums. Janitors have drawn $34,690 for their services. The cost of furniture and fixtures for the offices reaches the sum of $43,781 and the rent bill has amounted to $58,124. The salaries of clerks has netted $264,754 and the salaries of officers $260,938. The pay-roll for March shows that 4,124 persons drew salaries and wages amounting to $314,425, or an
average compensation of $76.24 per month or $2.46 per day. Contracts for construction purposes amounted to $12,469,201 up to the 1st ultimo, of which $2,361,263.37 was to be paid. The total receipts up to April 1st were $17,496,432.16, of which there was a cash balance of $626,396.58 on hand. If all goes well with the estimates from gate receipts, concessions, salvage, etc. (and all indications point to success), the auditor’s ledger at the wind-up will no doubt show a balance to the credit of the enterprise.

A large portion of the funds have come from Chicago or corporations doing business in this city; $5,500,000 have been subscribed here in capital stock; $5,000,000 were given by the city of Chicago; when it became necessary to put up $5,000,000 worth of bonds on the market, forty-four Chicago banks subscribed for $2,314,000, and twelve railroads with terminals here took another $1,000,000, making practically $15,000,000 raised in Chicago.

The United States government has contributed $1,500,000 originally; $2,500,000 in souvenir half dollars; $408,250 for construction of the United States Building; $151,750 for the maintenance of the United States Government exhibit; $20,000 to enable the Secretary of the Treasury to pay the expenses of receiving foreign goods for the Exposition; $103,000 for medals and diplomas; $688,625 for salaries, etc., of the National Commission, including the fiscal year, ending June 30, 1894, making a total for all purposes of $5,371,625.

The total appropriations made by foreign countries approximate $7,000,000; by the states and territories, $5,000,000.

After the buildings were practically finished the herculean task of installation came next. Exhibitors were slow in forwarding their exhibits, and for a time it appeared as if the Exposition would not be in readiness to open at the appointed time. While the Director-General stood out for a long time against receding from the position taken in the beginning, that exhibits must be in position early in April, he finally yielded to the inevitable and postponed the "day of grace." After continuous reminders that the Exposition would surely open on the 1st of May, exhibitors began sending in their goods and wares at a lively rate by the middle of April, and from that time up to the present activity and bustle has been the order of the day.

May 1st, the Exposition was formally opened and fully 350,000 people were present. From the east portal of the Administration Building to the walk along the west side of the grand baios, immense platforms had been constructed. On the outer platform a small table, covered with the United States flag, stood on a platform six feet in height. Resting on the stars and stripes was the velvet base of the magic key that was to send the thrill into Machinery Hall and formally open the Exposition. Above this rich velvet and gold pyramid the key itself rested like a beautiful jewel. Stretching upward and backward from this center-piece rose the grand stand, tier on tier. It was a remarkable gathering in many ways that filled the grand stand. Not only were there men and women of distinction among them, but a dozen nations contributed to the assemblage. Chicago's representative men were there, almost to a man, it seemed. Congress was represented in both houses in this earlier gathering. The army, the navy, the bench and the bar held a place. It was among the foreign contingent that attention was chiefly directed. Three figures well to the front received general notice. They were the Scottish Earl of Aberdeen, Sir Edward Birbeck and Sir Henry Wood. Baron Kunowski came on the platform accompanied by Marshall Field. Abdul Rahman, Rajah of Johore, was a noticeable figure, dressed in black, with a purple apron tied about him, and with an oriental wealth of insignia across his broad expanse of shirt front. Fred Douglass' dark face and long, white fleece showed near the big frame of Buffalo Bill, who, wearing a white sombrero, passed among the throng to be admired. The local officials arrived in squads. The first to appear were the judges of the courts, with Judge Horton and Judge Ewing in the lead. They occupied front seats and appeared to enjoy themselves immensely. The members of the Legislature came soon afterward, and then
GOMMISSIONERS WORLD'S COLUMBIAN GOMMISSION.

6. Wm. McIntree, South Dakota.
7. Archelaus M. Cochran, Texas.
11. Thomas C. Gutierrez, New Mexico.
15. Frederick J. Kiesel, Utah.
1. Louis L. Williams, Alaska.
2. Thos. E. Proctor, Massachusetts.
3. Lewis H. Heesfield, Montana.
4. James W. Haines, Nevada.
5. Martin Wilkins, Oregon.
6. V. D. Groner, Virginia.
8. J. D. Butt, West Virginia.
came the governor's staff, resplendent in dazzling new uniforms and befeathered chapeaus. The county commissioners, the aldermen, and many other county and city officers came also.

At 11:15 President Cleveland approached the table in front, with Director-General Davis on one side and Charles Henrotin on the other. Bunched behind them came a crowd of notables—Secretaries Gresham, Carlisle, Smith and Herbert, Vice-President Stevenson, President Palmer, of the National Commission; the Duke of Veragua, Chaplain W. H. Milburn, of Washington; Lyman J. Gage, President Higinbotham, Director of Works Burnham and others. Back of them, on the grand stand, were Governor Altgeld, of Illinois; Gen. Nelson A. Miles, Lambert Tree, Speaker Crafts, of the Illinois House of Representatives; Lieutenant-Governor Gill and other State officers of Illinois, Senator Cullom, of Illinois; Senator Mitchell, of Wisconsin; Senator Allison, of Iowa; Congressman Springer, of Illinois; Ashley, of Massachusetts; Campbell, of New York; Barwig, of Wisconsin; McDonald, of Illinois; Buckner, of Wisconsin; Houk, of Ohio; O'Neill, of Pennsylvania; Durborow, of Illinois; Henderson, of Iowa; Black, of Illinois, and McGann, of Illinois; National Commissioners Widener, Bradely B. Smalley, G. W. Allen, George H. Barbour, V. D. Groner, James Hodgge, Thomas B. Keogh, A. T. Ewing, James H. Breslin, J. W. St. Clair, and Directors Thomas B. Bryan, F. W. Peck, J. W. Ellsworth, W. D. Kerfoot, William P. Ketcham, E. F. Lawrence, A. H. Revell, C. H. Wacker, James W. Scott, C. T. Yerkes, C. H. Schwab and ex-President W. T. Baker; also Mrs. Potter Palmer, the ladies of the ducal party and a few members of the Board of Lady Managers, Mayor Harrison and others.

The diplomat failed to attend in a body, although many of prominence were present.

The President of the United States bowed to the cheering crowds below him. He seated himself, with the Duke of Veragua and Mr. Higinbotham on his right. Messrs. Palmer, Burnham and Davis seated themselves at his left hand. A moment later the Director-General arose, and, turning toward the great band under the arched entrance of the Administration Building, waved the type-written copy of his speech. The instruments burst into the strains of the Columbian march and hymn, after which prayer was offered by the Rev. Mr. Milburn, known far and wide as the "blind preacher." The prayer was long and was scarcely heard fifty feet away. People below had become unmanageable and the attention of nearly every one on the stand was directed to them. When the prayer was ended W. D. Croffut's poem, "The Prophecy," was read by Miss Jessie Couthou. It was scarcely heard twenty feet from the stand, though the lady's gestures were watched and cheered by the vast throng.

The orchestral overture, "Reinzi," followed, after which the Director-General rose to speak. His address was cut very short, both from inability to make himself heard and on account of the crushing, surging, restless crowd of people below him.

President Cleveland's address was a very short one. In rising he laid off his hat, putting his right hand rather nervously to his hair. Then his hand dropped into his overcoat pocket and he stood stroking his moustache with his left hand as he waited for the applause to subside. He talked slowly and probably succeeded better in making himself heard beyond his immediate surroundings than did any one else.

It was just 12:04 o'clock when he stepped forward and pressed the key that started the machinery in Machinery Hall.

Suddenly the great flag whose silken folds of red, white and blue had drooped at the foot of the middle flag-pole in front of the President's platform, climbed swiftly to the top, where it hung glistening below the golden caravel crowning the mighty shaft. The banner of Columbus, white with the green cross of the inquisition and "F. Y.," the initials of his sovereigns, rose more slowly on the tall pole to the right. From the left came a burst of color, and
the red banner of Castile, with its rampant lion, rose in the air. Then while the people gazed in wonder at the scene of magic, banners bourgeoned along the roofs of the palaces about the court of honor. They broke forth in folds of red and saffron and green and blue and white. The whistles of the steam launches in the basin drowned out the boom of the cannon aboard the man-of-war Michigan, whose white hull lay in the lake beyond the Peristyle. The fountains spurted a hundred feet in the air, their feathery tufts of water catching rainbows in the sunshine. The cheers rose tumultuously, and when the noise finally died away the faint sound of distant machinery told that the Exposition was an accomplished fact.

The gates are now open under most favorable conditions, and as the colossal undertaking expands to the zenith of its glory successive issues of the Official Directory and Reference Book will give additional details of the wonders to be seen.
GROUP OF PRESIDENTS OF STATE BOARDS,
WORLD'S FAIR MANAGERS.

1. Gen. John W. Corcoran, 
   Massachusetts.
2. Hall C. Burleigh, 
   Maine.
3. Clem. Studebaker, 
   Indiana.
4. Gov. R. E. Pattison, 
   Pennsylvania.
5. Gov. Frank Brown, 
   Maryland.
6. August L. Smith, 
   Wisconsin.
7. Stephen J. Meeker, 
   New Jersey.
8. Capt. A. A. Woods, 
   Louisiana.
9. A. S. Buford, 
   Virginia.
10. W. H. Dulany, 
    Kentucky.
11. N. G. Blalock, M. D., 
    Washington.
12. James M. Wells, 
    Idaho.
13. W. N. Chancellor, 
    West Virginia.
14. James Mitchell, 
    Arkansas.
15. W. T. Thornton, 
    New Mexico.
GROUP OF PRESIDENTS OF STATE BOARDS.

1. La Fayette Funk, Illinois.
4. J. B. Smith, Delaware.
5. D. O. Monfort, Minnesota.
8. Prof. Andrews, Rhode Island.
10. W. W. Peabody, Ohio.
13. G. B. Smalley, Vermont.
15. I. M. Scott, California.
STATE AND TERRITORIAL PARTICIPATION.

The following shows the States and Territories that are participating, and the amount each has appropriated for its exhibit. In addition to these appropriations a total of over one million dollar was contributed by subscriptions of individuals and by counties. At the time of going to press on this edition, bills were pending for additional appropriations as follows: Alabama (original), $35,000; Colorado, $10,000; Connecticut (original), $75,000; Ohio, $75,000; Tennessee (original) $50,000; West Virginia, $25,000; New Mexico, $17,000.

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ALABAMA.


National Board Lady Managers: Miss Hattie T. Hundley, Mooresville; Mrs. Anna M. Fosdick, Mobile. Alternates: Mrs. S. H. Bush, Birmingham; Miss Irene W. Semple, Montgomery.

Alabama has no State Board of Commissioners nor a building, the Legislature having failed to make an appropriation. Some funds were raised in the State, however, pending the action of the Legislature on the World's Fair Bill, but it was not a sufficient amount with which to erect a creditable building and the movement was abandoned.

ARKANSAS.

Following are the members of the Arkansas State Board of Commissioners: James Mitchell, President, Little Rock; Hal L. Norwood, Secretary, Locksburg; R. H. Adair, Manager, Fort Smith; Miss Fannie Scott, Lady Assistant Manager, Van Buren; W. S. Thomas, Little Rock; R. B. Weaver, Rally Hill; Edward W. Pascoe, Cushman.


The design of the Arkansas Building follows classic models, it being in the French “Rococo” style of architecture, as Arkansas was originally settled by the French. The exterior is in plaster and ornamental staff work, tinted in light color. The interior is tinted, and the ornamental work is brought out in gold. The building has a ground area of 66 by 92 feet. From a large circular veranda, which runs the width of the building, an elliptical entrance opens to the rotunda, 30 by 30 feet, lighted by a central dome. In the center of the rotunda is a fountain of Hot Springs crystals, lighted by electricity. Flanking the rotunda are six rooms, 15 feet square. Five of these are used as exhibit rooms, with the registry room on the right of the entrance lobby. Opening from the rotunda, by triple arches, is the hallway, 11 by 55 feet, with the stairways on each side of the arched entrance. At the rear of the building is the assembly hall, 25 by 65 feet, which is entered from the hallway through triple arches. In this hall, opposite the entrance, is a 10-foot mantel, of Arkansas white onyx. Columns and vases of the same material are placed in various parts of the building. On the second floor are parlors for men and women, a library, committee and officers' rooms. All of these rooms open on a broad gallery, over the rotunda, lighted from the central dome. Designer, Mrs. Jean Douglas, of Little Rock; cost $18,000. The exhibits made by Arkansas are to be found in the State building.

CALIFORNIA.

Following are the members of the California State Board of Commissioners: Irving M. Scott, President, San Francisco; Jas. D. Phelan Vice-President, San Francisco; N. J. Bird, General Manager; C. M. Wells, Secretary, San Francisco; John Daggett, Black Bear; R. McMurray, San Francisco; A. T. Hatch, San Francisco; L. J. Rose, Los Angeles; S. W. Ferguson, Bakersfield.

State Board Lady Managers: Mrs. E. O. Smith, President; Mrs. Flora M. Kimball, Vice-President; Mrs. A. Marcellus, 2d Vice-President; Mrs. Ella Sterling Cummins, Mrs. Anna M. Reed, Mrs. Olive C. Cole, Mrs. Virginia Bradley; Mrs. Hester A. Harland, Secretary.

National Board of Lady Managers: Mrs. Parthenia P. Rue, Santa Rosa; Mrs. James R. Deane, San Francisco. Alternates: Mrs. Isaac L. Requa, Piedmont; Mrs. Prona E. Waite, San Francisco.


Next to the Illinois Building California’s is the largest of the State buildings, and cost $75,000. Its dimensions are 144x435 feet. It is in the style of architecture of the old California mission buildings. The exterior is of plain plaster, artificially seamed and cracked, giving it the appearance of the old mission buildings, while recessed entrances give the walls that appearance of depth and solidity characteristic of the old buildings. The south front is a reproduction of the old Mission church at San Diego. The main tower is an exact reproduction
of the San Diego church tower, while the remaining towers on the corners and center of the building are all studied from the mission architecture. The building is not of the clubhouse character of most of the other State buildings. The entire first floor is open and is devoted to the California State display, principally of fruits and canned goods. There are three fountains on the ground floor; one in the center and one at either end. The central hall is surrounded by a wide gallery, and on the gallery floor on the north end of the building is the banquet hall, a kitchen and an assembly-room. In the south end are four servants' rooms, and there is a café in the gallery. The building is severely plain, there being no interior or exterior decorations of any kind. The walls are whitewashed within and without. The central portion of the roof is devoted to a garden 144 feet square, surrounding the central dome. On either side of the main entrances are elevators running to the roof garden. These elevators are a California product, the power being a combination of steam and water. The roof is of California red tile.

COLORADO.

Following are the members of the Colorado State Board of Commissioners: Governor Davis H. Waite, President, Aspen; A. B. McKinley, Vice-President, Denver; O. C. French, Secretary, Denver; Joseph A. Thatcher, Treasurer, Pueblo; B. S. LaGrange, Greeley; Frederick Steinhauser, Denver; Nathan B. Coy, Denver; R. E. Goodell, Leadville; Joseph H. Smith, Denver; H. B. Gillespie, Aspen; W. S. Coburn, Paonia.

National Board Lady Managers: Mrs. L. P. Coleman, Buena Vista; Mrs. M. D. Thatcher, Pueblo; Alternates: Mrs. William Patrick, Leadville; Mrs. Susan R. Ashley, Denver.


The Colorado Building is in the Spanish renaissance, this style of architecture being considered most suitable for the Southwestern States. It cost $35,000. The whole exterior of the building is in staff of an ivory color, and in the salient features of the design profusely ornamented, the ornamentation comparing to fine advantage with the broad, plain surfaces of the building. The striking feature of the design is two slender Spanish towers, 98 feet high, rising from either side of the main entrance, on the east. The tower roofs and the broad, overhanging roof of the building are covered with red Spanish tiles. The building is 125 feet long, including the end porticos, with a depth of 45 feet, and 26 feet to the cornice line. The front vestibule opens to the main hall of the building. On either side of the entrance are stairways to the floor above. At the rear of the hall is a large onyx mantel, flanked by glass doors, leading to offices. At the ends of the hall are a men's smoking room and a women's reception room, each opening into an uncovered terrace, surrounded by a balustrade. On the second floor is the assembly room, extending the entire length of the building in the center. This room has a high vaulted ceiling, rising above an ornamented cornice. Over this cornice are rows of electric lights, giving a diffused light, by reflection from the vault above. On the ends of this assembly room are a reading and a writing room, which open to the hanging balconies on the ends of the building, forming one of the most attractive exterior features. Broad, low casement windows open from the assembly rooms to the front and rear balconies, the front one extending between the towers, 24 feet, and over the main entrance. The rear balcony extends along the entire length of the building. Staircases lead to the lanterns in the tower, where a fine view of the grounds is had.

CONNECTICUT.

Following are the members of the Connecticut State Board of Commissioners: Gov. L. B. Morris, President, New Haven; David M. Read, Vice-President, Bridgeport; Eugene S. Boss, Vice-President, Willimantic; J. H. Vaille, Executive Manager, Winsted; Wilbur B. Foster, Secretary, Rockville; George H. Day, Treasurer, New Haven; Edward T. Brown, New London; Clinton B. Davis, Higganum; Rufus E. Holmes, West Winsted; Charles M. Jarvis, East Berlin; Oscar I. Jones, Westport; S. W. Kellogg, Waterbury; Charles S. L. Marlor, Brooklyn; Frank A. Mitchell, Norwich; Thomas R. Pickering, Portland; Milo B. Richardson, Lime Rock; George Sykes, Rockville; George F. Holcombe, New Haven.
State Board of Lady Managers: Mrs. George H. Knight, President, Lakeville; Mrs. Jabez H. Alvord, Winsted; Mrs. P. T. Barnum, Bridgeport; Miss Hattie E. Brainard, Willimantic; Miss Anna H. Chappell, New London; Miss Clementine D. Clark, Higganum; Mrs. Franklin Farrell, Ausonia; Mrs. A. R. Goodrich, Vernon; Mrs. Wealtha A. Hammond, Portland; Mrs. P. H. Ingalls, Hartford; Mrs. Cyril Johnson, Stafford; Miss Edith Jones, Westport; Miss Elizabeth T. Ripley, Norwich; Miss Lucy P. Trowbridge, New Haven; Mrs. E. T. Whitmore, Putnam; Mrs. Morgan G. Bulkeley, Hartford.

National Board Lady Managers: Miss Frances S. Ives, New Haven; Mrs. Isabella Beecher Hooker, Hartford. Alternates: Mrs. Amelia B. Hinman, Stevenson; Mrs. Virginia T. Smith, Hartford.

The Connecticut State Building is in the Colonial style, being a type of the Connecticut residence, with the addition of circular windows on the north and south, and a circular piazza on the rear. It has a ground area of 72x73 feet, including the piazza, and is two stories high. The exterior is weatherboarded and painted white. The roof contains five dormer windows and is decked on top. The deck is surrounded by a balustrade, and from its center rises a flagstaff. The main entrance is off a square porch, covered by the projecting pediment, which is supported by heavy columns. The interior is finished in Colonial style, with tiled floors, paneled walls and Dutch mantels. The plumbing and carpenters' hardware in the building are in special designs, and are donated as exhibits by Connecticut manufacturers. On the first floor is a reception hall, 21x48 feet, with a light-well in the center. In the rear of the hall is a stairway with a landing half-way up. Flanking the hall are parlors for men and women. The second floor is divided up into living rooms, and will be occupied by the executive World's Fair officer of Connecticut, and his family, during the Fair. The building cost $15,000.

DELAWARE.

Following are the members of the Delaware State Board of Commissioners: Thomas B. Smith, President, Wilmington; George W. Emery, Vice-President, Seaford; William R. Allaband, Secretary, Dover; R. W. Reynolds, Treasurer, Frederica; Henry C. Conrad, Wilmington; Matthias T. Moore, Laurel; Mrs. Caleb Churchman, Wilmington; Miss Ida Bacon, Laurel; Mrs. Anna E. Hall, Dover; Gov. Robert J. Reynolds.

National Board Lady Managers: Mrs. J. Frank Ball, Wilmington; Mrs. Mary Kinder, Milford. Alternates: Mrs. Thomas F. Armstrong, Newark; Mrs. May Torbert, Milford.


The Delaware State Building is constructed wholly of native woods and materials from the State, is 58x60 feet, and is very picturesque, elaborately furnished, and cost $8,000. One room in the building is finished in Colonial style, with hangings and furniture representing the Colonial days. It is very interesting, there being figures in clay of the old Swedes' church at Wilmington, Barratt's Chapel, and Christ Church Christ Church was built more than 100 years ago of heart pine. It is without a particle of paint and has the high backed pews, the chancel at one end, the servants' gallery at the opposite end, midway on the east side the lofty pulpit, and immediately below the reading desk, and the clerk's desk. The little State of Delaware was one of the first to show its loyal adherence to the Exposition. The first donation was $10,000, followed later by a further sum of $15,000.

FLORIDA.

Following are the members of the Florida State Board of Commissioners: President and Executive Commissioner, Arthur C. Jackson, Jacksonville; Vice-Presidents, Gov. H. L. Mitchell, Ex-Gov. F. P. Fleming, Ex-Gov. W. D. Bloxham, Hon. Joseph Hirst, Hon. Jeff Browne, Hon. J. L. Gaskins; Secretary, Guy L. Metcalf, Dade County; Treasurer, J. T. Talbott, Duval county; Commissioners, E. P. Branch, Brevard county; J. F. Greer, Clay county; J. E. Grady, Franklin county; S. A. Jones, Hillsborough county; C. J. Huelsenkamp, Monroe county; Fred W. Hovt, Nassau county; M. R. Marks, Orange county; R. E. Rose, Osceola county; J. A. Enslow, Jr, St. Johns county; Solon B. Turman, Superintendent Minerals; W. E. Knibloe, Superintendent Education.
ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. Wm. E. McLean, Indiana.
2. Charles M. Travis, Indiana.
3. David N. Comingore, Kentucky.
5. Geo. P. Ladd, Massachusetts.
7. O. H. Picher, Missouri.
9. E. L. McDonald, Missouri.
10. R. L. McDonald, Missouri.
12. Jeffrey Hazard, Rhode Island.
15. W. L. Van Horn, Arizona.

12. Lorillard Spencer, Rhode Island.
ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. G. A. Bingham, North Carolina.
2. Lucius C. Cron, Ohio.
5. W. T. Wright, Oregon.
6. Lock McDaniels, Texas.
10. John Corcoran, West Virginia.
11. Alex. McDonald, Virginia.
12. Alex. McDonald, Virginia.
13. Wellington Vrooman, West Virginia.
15. Myron Reed, Wisconsin.
National Board Lady Managers: Mrs. Mary C. Bell, Gainesville; Miss E. Nellie Beck, Tampa. Alternates: Mrs. Chloe M. Reed, Jacksonville; Mrs. H. K. Ingram, Jacksonville.


A miniature of old Fort Marion, in St. Augustine, has been reproduced in the Florida Building. The fort covers an area of one acre, and is, perhaps, the oldest structure in North America, the most interesting specimen of Spanish supremacy in this country, and the only example of medieval fortification on the continent. Its erection was begun in 1620, and continued for 100 years. To equip it as a garrison, required 100 guns and 1,000 men. It was never taken by a besieging force. The State Building occupies one-fifth of the space of Fort Marion. It is in the form of a four-bastioned fortress. Including the moat, the site is 155 feet square. The building proper is 137 feet square. The frame is of pine, covered with plaster and coquina shells, in imitation of the original. The interior is divided into parlors for men and women, committee and exhibit rooms, and is furnished in Florida's native woods. The interior court is planted in bamboo, orange, lemon and other tropical trees. The ramps furnish space for promenades and hanging gardens. In the moat is a sunken garden, where are produced miniature fields of cotton, sugar, rice, tobacco, etc., showing the natural resources of the state. The cost of the structure is $20,000.

GEORGIA.


The Georgia Legislature failed to make an appropriation, consequently that State has no building nor Board of State Commissioners.

IDAHO.


National Board Lady Managers: Mrs. Anna E. M. Farnum, Hauser Junction; Mrs. J. C. Straughan, Boise City. Alternates: Mrs. Louise L. Barton, Moscow; Mrs. Ella R. Miller, Blackfoot.


The territory embraced within the limits of the young State of Idaho, though traversed by many beautiful and fertile valleys, is in the main a mountainous region, its mean elevation being about 4,700 feet. In fact, from the beauty and grandeur of its mountain scenery it was named, quite appropriately, Idaho, "The Gem of the Mountains." Its numerous streams are bordered by dense forests of valuable timber, and the developments of recent years have discovered
that its mountains are rich in precious metals. Though the State has made rapid strides in recent years in the matter of general improvement, the log cabin of the pioneer is still a familiar scene, and the forests and hills still abound in wild game. In designing and decorating Idaho’s building for the World’s Columbian Exposition, an effort was made to give some expression to the characteristics above referred to, to exemplify in a measure some of the chief products of the State, and to suggest some of its interesting features. All of the materials used in the construction of the building are products of Idaho, and nearly all of the decorations were there obtained. The general style of architecture is Swiss, modified in so far as was necessary to adapt it to the materials to be used in the construction and to illustrate local conditions. The building, the foundation of which is of basaltic rock and lava, is a three-story log cabin made of stripped cedar logs, stained to the appearance of weather-beaten age. It is generously supplied with Swiss balconies averaging ten feet in width, which extend around three sides of the structure on the second floor, and across the front and rear of the third floor. The roof extends on all sides ten feet beyond the building line, and is covered with shakes held in place by rocks, while the chimneys are large and roughly stuccoed to imitate in appearance the chimneys of real pioneer days. The outside dimensions of the building, including balconies and roof, are 70x90; the foundation, 53x93. One enters the building through a stone arch, into a passage way, 10x35, leading to a large central hall, 16x34, at the end of which is a stone fire-place with log mantel. The remainder of this floor is divided into two offices, 14x16, two sleeping apartments, 15x16, and two toilet rooms, 22x26. From the central hall one proceeds by a stairway, on either side of the fire-place, to the upper hall, 18x48½, opening into which, from the front, is the women’s reception room, 24x48½, representing a miner’s cabin, the fire-place of which is made of malleferous rock, and the andirons, door latches, etc., are made in imitation of miner’s tools. At the rear of the hall is the men’s reception room, 27x48½, a hunter’s and trapper’s cabin, the fire-place of which is of Idaho lava, the andirons made of bear traps and fish spears, the other hardware therein representing Indian weapons, arrows, etc. The entire third floor is one large hall, 48½x50½, intended for special receptions, and contains such articles as ornament the room as well as represent interesting features of the State. The cost of the building is $30,000.

ILLINOIS.

Following are the members of the Illinois State Board of Commissioners: La Fayette Funk, President, Shirley; David Gore, Vice-President, Carlinville; Wilson C. Garrard, Secretary Chicago; John W. Bunn, Treasurer, Springfield; John P. Reynolds, Director-in-Chief, Chicago; Daniel H. Paddock, Attorney, Kankakee; J. Irving Pearce, Chicago; J. Harley Bradley, Chicago; Wm. Stewart, Chicago; Byron F. Wyman, Sycamore; A. B. Hostetter, Mt. Carroll; Samuel Dysart, Franklin Grove; W. D. Stryker, Plainfield; John Virgin, Fairbury; D. W. Vittum, Canton; E. B. David, Aledo; W. H. Fulkerson, Jerseyville; J. W. Judy, Tallula; S. W. Johns, Decatur; E. E. Chester, Champaign; James K. Dickirson, Lawrenceville; Edward C. Pace, Ashley; B. Pullen, Centralia; J. M. Washburn, Marion.

Illinois Woman’s Exposition Board: Mrs. Marcia Louise Gould, President, Moline; Mrs. Robert H. Wiles, Vice-President, Freeport; Miss Mary Callahan, Secretary, Robinson; Mrs. Richard J. Oglesby, Elkhart; Mrs. Francis L. Gilbert, Chicago; Mrs. Francine E. Patton, Springfield; Mrs. Isabella Lanning Candee, Cairo; Mrs. Frances Welles Shepard, Chicago.

Residents of the city of Chicago appointed by President of the World’s Columbian Commission: Mrs. Bertha M. Honolulu Palmer, Lake Shore Drive; Mrs. Solomon Thatcher, Jr., River Forest; Mrs. James A. Mulligan, 190 Pine street; Frances Dickinson, M. D., 70 State street; Miss Sarah T. Hallowell, Palmer House; Mrs. George L. Dunlap, 328 Dearborn avenue; Mrs. L. Brace Shattuck, 5500 Woodlawn avenue; Mrs. Annie C. Meyers, Great Northern Hotel; Mrs. M. R. M. Wallace, 3817 Michigan avenue; Mrs. Myra Bradwell, 1428 Michigan avenue; Mrs. James R. Holstrove, 1428 Michigan avenue; Mrs. James R. Holstrove, Jr., 24 Groveland Park; Mrs. Matilda B. Carse, 143 Ashland boulevard; Martha H. Ten Eyck, 3704 Madison avenue; Mrs. Margaret Isabelle Sandes, Ravenswood, Ill.; Mrs. Leander Stone, 3852 Indiana avenue; Mrs. Gen'l A. L. Chetain, 543 No. State street; Frances E. Willard, Evanston, Ill.

National Board Lady Managers: Mrs. Richard J. Oglesby, Elkhart; Mrs. Frances W. Shepard, Chicago. Alternates—Mrs. Marcia Louise Gould, Moline; Mrs. L. L. Candee, Cairo.

ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. La Fayette Funk, Illinois.
5. Alphonse Le Duc, Louisiana.
7. George M. Upshur, Maryland.
8. Daniel E. Conkling, Maryland.
10. Muret N. Leland, Minnesota.
LADY MANAGERS, RESIDENTS OF CHICAGO.

1. Mrs. Potter Palmer.
2. Mrs. Solomon Thatcher, Jr.
4. Francis Dickinson, M.D.
8. Mrs. Matilda B. Carbe.
10. Mrs. Margaret L. Sanders.
11. Mrs. Leander Stone.
13. Frances E. Willard.
By far the most pretentious of the structures erected by the several States of the Union stands the Illinois State Building. Being in a sense the host at the Exposition, it was deemed not only proper but requisite that Illinois should make such appropriation and provide such a building as would enable her to perform creditably the duties of that office. The State appropriated $800,000 and the building cost $250,000.

Situated on a high terrace, in one of the most favored spots in Jackson Park, the Illinois Building commands, for nearly a mile to the southward, a view of the beautiful waterway which encircles the great island. The building in the main is 160 feet wide by 450 feet long. On the north, Memorial Hall forms a wing 50 by 75 feet, and on the south another wing, 75 by 123 feet and three stories high, accommodates the executive officers, and in the third story two public halls. The side walls are 47 feet high, while the south wing is 72 feet and the ends 54 feet. Surmounting the building at the center a fine dome, 72 feet in diameter, rises to a height of 235 feet. The building is constructed almost wholly of Illinois material—wood, stone, brick and steel—and is covered with staff artistically treated. The grand entrance faces the waterway to the south, while at the west and north ends are others scarcely less imposing. In front of the entrances are beautiful terraces with balustrades, statues, fountains, flowers, and stone steps leading down to the roadways and lagoon landings. The building is embellished with fine carving and statuary. It is thoroughly lighted, first from the side windows, which are placed about fourteen feet above the floor to permit cases to be placed against the walls; second, with skylights placed in the flat roof of the side aisles; and third, with continuous skylights on the ridge of a pitched roof or nave. Ventilation is provided for through windows placed a story above the flat aisle roof and the foot of the sloping roof over the nave. The interior of the structure is appropriately and beautifully ornamented. Memorial Hall, which is fireproof, has a gallery encircling it, and contains a large and interesting collection of relics and trophies of the war and other periods—all owned by the State. There are also spacious galleries from which an excellent survey of the main exhibit hall may be taken. One feature of the Illinois Building which is sure to attract much attention, consists of five model common-school rooms, of high grade, fully equipped and furnished, under the direction of the State Superintendent of Public Instruction. Here may be seen an illustration of the methods and results of educational work as pursued in the normal universities, the public, technical and art schools, and the high schools of the State; an exhibit by the University of Illinois of the equipment, methods of instruction and achievements of that institution in its several departments, and an exhibit of the educational and industrial work as conducted in the State charitable institutions. There are no competitive exhibits in the Illinois Building. These are distributed in their proper places in the several Exposition structures. The Illinois Building contains a "collective departmental exhibit for the State, which shall illustrate its natural resources, together with the methods employed and results accomplished by the State in its municipal capacity through its several departments, boards, commissions, bureaus and other agencies in the work of promoting the moral, educational and material welfare of its inhabitants so far as such methods and results are susceptible of exhibition." There are also collections, correctly classified and labeled, illustrating the natural history and archaeology of the State; an exhibition by the State Fish Commission of native and cultivated live fish, with hatchery and appliances and equipments for transportation, models of fishways in use; a special collection of the cultivated products in the several branches of agriculture, architectural drawings (with elevations) of every public building erected and now used or maintained in whole or in part by the State; also maps, charts, diagrams and tables conveying full and accurate information relative to Illinois and its resources. The topographical maps of the State are sure to claim much attention. To the women of Illinois was granted $80,000, or one tenth of the entire appropriation, and also one-tenth
of the space in the building. The visitor will doubtless be intensely interested in observing how creditably the women of the State have improved the exceptional opportunity thus afforded them.

Nearly the entire State exhibit is confined to the Illinois Building. Excepting agriculture and floriculture, the exhibit is not represented in the various departments, except where private showings are made. It is the only State which follows the example of the Federal Government.

The east wing of the building is occupied by the Illinois Board of Lady Managers, the north wing is used as a memorial hall and the rest of the structure is devoted to the State exhibit. This is a collective departmental exhibit illustrating the natural resources of the State with the method employed and the results accomplished by every branch of the State government.

A prominent place is given to educational methods, and it may not be out of place here to, say that Illinois votes more money for the purposes of education than any other State in the Union. Visitors to the Exposition will see illustrated just how this money is expended. The State Blind Asylum at Jacksonville maintains a permanent exhibit. There are twelve pupils always at work in the building, each one at a different occupation, to illustrate the variety of branches taught. An expert type-writer from the school, operates a machine, and it is just the same as in common use, without raised letters. Some of the most rapid operators in the country are blind and educated by the State.

Under the direction of Dr. Raab, State Superintendent of Public Instruction, one room is fitted up as a model school-room of the high grade. As an illustration of the methods and results of educational work of the State the department shows by models the comparison between the smallest school in the rural districts and the city school of the highest grade and by comparison the progress made in the forty-one years of statehood. One of the galleries is given up to books and charts showing the progress of the work and the number of children taught each year. This is also done with the two normal schools of the State. The State is proud of the University of Illinois, and this institution has been given a very large share of the educational space. It has in all twelve departments, and the work in each is shown. Particular attention is paid to the departments of civil and electrical engineering and the tools used in each. The achievements of the university are shown by charts, and architectural plans explaining the proposed work are exhibited. From the experiment station which the State maintains in conjunction with the Federal Department of Agriculture was sent the results of the various trials which have been successful and those which have failed. The idea of sending the failures is that they may act as an educational exhibit for the benefit of those interested in the science of agriculture as well as to show wherein it has failed and invite conference as to the probable cause of the failure.

The agricultural exhibit of the State is very large, for this is one of the banner agricultural States of the Union. Illinois, with the exception of California, is the largest State in the Union running north and south. California has an equable climate, while Illinois, being mid-continental and subject to no influence by large bodies of water, is subject to all the winds that blow, from a semi-tropical breeze at Cairo to a semi-arctic blizzard at Chicago. This naturally gives the State a much larger variety of climate than many others. The exhibit of these resources showing the widely different conditions of the State are classified into agriculture, horticulture and floriculture. Each department has a full and complete exhibit and it starts in with the earliest products at the extreme south. As the season advances the commissioners will place on tables the largest products of the two, the farm and the flower garden. These will be renewed every week so that the exhibits will always have a fresh look and on that account be more attractive.

This State fixes the standard of grain for the world and under the direction of the State Grain Inspection Department the Commissioners illustrate the entire
system of inspecting grain as established by the Railroad and Warehouse commission. Samples of all the known standards are given.

The natural history and archaeological display is very extensive and complete. It includes the State's stratigraphical and economic geology. Large glass cases are filled with its soil and subsoil taken from different localities, as well as the useful clays and ores and all products of the mines and quarries. This, in company with illustrations of the State's botany and zoology, occupy a large pavilion in the west wing opposite the forestry section. On first thought many people may think that Illinois has no forestry, but that is an error. The prairies which are so productive in the growth of grain also grow trees, and arboriculture has become a strong industry. A rustic pavilion has been made of all the different woods grown in the State, and the specimens furnishing material for the pavilion have been selected specially with a view to the exhibit feature of its construction. Inside the pavilion are finished samples, showing the varied uses to which the woods of the State are put, and the collective display will surprise the people who imagine the soil of the State will raise nothing but corn-stalks. When it comes to corn-stalks, though, Illinois is somewhere very near the head of the procession. In the northwest corner of the building is a pavilion built of stalks. The uprights were grown in a cornfield and the very roof is a thatch of stalks. All the decoration is typical, from the silky tassels that serve for frieze and dado, to the corn in the ear, arranged in fantastic designs and color combinations. The smallest pop-corn nubbin and the biggest ear of river bottom corn are in the aggregation.

The State Fisheries Department is also well represented. The commissioners show in four large tanks all the native and propagated fish alive, together with the hatcheries system and the appliances used in transportation.

In the very center of the building is the great relief map of the State cast in plaster of Paris. It is made on a scale of two miles to the horizontal inch and 500 feet to the vertical inch. That gives it a length of seventeen feet, width nine feet. It has taken fourteen engineers nearly a year to prepare the drawings, but it is of great value because of its topographical accuracy. Among other things the new map shows that the best map in existence before this was begun had 1,382 errors and discrepancies.

The north wing of the building is used as a memorial hall. All of the relics of the State are shown there, including the flags carried by the State soldiers during the late Civil War.

Of the original appropriation of $800,000 of the State to meet the expenses of the exhibits and building, the Woman's Board got $80,000. They occupy the east wing of the building and display a great variety of things from the model farm of the State, which is owned and operated by a woman, to industrial and art works. The women of the State have responded promptly to the call for specimens of this work of every nature, and the rooms are filled with paintings, relics and the manufactured products.

From the exhibit made by the Illinois Women's Board three objects have been attained: First, the board shows to the world samples of the work done by the women of Illinois; second, Illinois women see the best methods and results in all the common and everyday duties of life; and, third, the exhibit familiarizes the women of the State with the new avenues of activity and the broadening opportunities for self-advancement and self-support opened to them.

In order to accomplish this great task efficiently the board was organized with Mrs. Gould as president, Mrs. Robert W. Wiles, of Freeport, as vice-president, and Miss Mary Callahan, of Robison, as secretary. The work was subdivided and attended to by the following committees:

Committee on Literature, including books, newspapers and magazines, Mrs. Francis L. Gilbert, of Chicago, Chairman.

Historical and Scientific Collections, Miss Callahan, Chairman.

Decorative Art, including ceramics, wood-carving, plain and ornamental needle work, Mrs. H. H. Cantee, of Cairo, Chairman.
Fine Art, including sculpture, oil and water colors, etchings and pastels, Mrs. Henry M Shepard, of Chicago, Chairman.

Domestic Science, including pantry stores, model kitchen and dining-room, Mrs. Richard J. Oglesby, of Elkhart, Chairman.

Practical Arts, including inventions, designs and manufactures, Mrs. Wiles, Chairman.

Educational, Charitable, and Professional Work, Mrs. Francione E. Patton, of Springfield, Chairman.

Music and Dramatic Art, Mrs. Gould, Chairman.

Clubs were formed in every county in the State, which had the effect of arousing enthusiasm in the State exhibit. The part of the Illinois Building assigned to women has been handsomely decorated by paintings, plastic reliefs, etc., by several of the accomplished women artists of the State. The artists assisting were:

Miss Caroline D. Wade, Mrs. Marie K. Lusk, Miss Helen B. Gregory, Miss Alice D. Kellogg, Miss Pauline A. Dohn, Miss Anna W. Jones, Mrs. Mary F. Means and Miss D. Gerow.

In the library has been placed the volumes written by Illinois women. Names of more than 150 Illinois authors appear in the collection.

The Historical and Scientific Committee makes an exhibit contrasting the work and manner of life of the women in the first years of the State's existence with that of the present, and shows the advance made. This is done by means of relics of different kinds, articles worn in early times, books and pictures. Kaskaskia, the oldest town in the Mississippi valley and first capital of the State, was rich in relics to any one who would seek for them in old garrets or warehouses. Many articles which have been preserved with care were, through the earnest solicitation of Miss Callahan, secretary of the committee, finally secured for the Illinois exhibit. They had been sought for the Centennial and New Orleans and Paris expositions, but never before have they been exhibited. One of the oldest and most interesting relics is the bell taken from the church of the old Catholic mission. It still hangs in the church tower, but is never used. The mission was established by Father Marquette, who preached the first sermon to the Indians. In 1782 Father Gravier built the first church. The interior of the present church is that old mission structure, made modern by improvements, but still left intact. The silver service, bell, vestments and pictures were presented by the King of France, Louis XIV. The bell is inscribed: "To the Church of Illinois." On the opposite surface is the cross. The old hotel in which Lafayette was banqueted still stands, and one part of it is used as a dwelling. From the room used as the banquet hall in 1825 a carved ebony mantel has been taken out and placed in the exhibit, with the brass andirons that were used in the fireplace; also several pieces of china from the same house. Portraits of the first executive and his wife, Governor and Mrs. Bond, are in the collection, which are loaned by their grandson; the old family Bible, a silver ladle, and a silver urn made from coin given by the soldiers from old Fort Vincennes to the servants for milk, butter and eggs. The house is entirely gone, and where it stood now flow the waters of the Kaskaskia. The grandson of old Pierre Minard, who was first lieutenant-governor, made a valuable loan. The old gentleman lived in princely style. All the furniture of his mansion was bought in France. In the collection is a cherry table, a mahogany bureau with swell front and plain columns, and a pier glass from the carved ebony mantel. A picture of the house in which the first legislature was held will be shown. It was the first brick house in the Mississippi valley, and the bricks were brought from Pittsburg on flatboats down the Ohio and up the Mississippi. Sangamon county sends many interesting things from the Lincoln home. Among them is the table cloth used at the wedding breakfast of Lincoln, and now preserved by a niece of Mrs. Lincoln. Also the ball dresses worn by Mrs. Lincoln at the first and second inaugural balls. Jo Daviess county sends the saddle in which Grant rode during the war, and the lantern he carried with his equipments.

In the scientific department Miss Nettie Ayers, who is assistant in the University of Illinois at Champaign and the only woman bacteriologist, has a work-
ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. Timothy E. Collins, Montana.
2. Wm. S. Hall, Alabama.
5. S. A. Ramsay, South Dakota.
7. Wm. L. May, Nebraska.
8. Jno. Lauterbach, Nebraska.
10. Asa S. Mercer, Oklahoma.
11. Chas. B. Eddy, New Mexico.
13. Louis C. Petred, New Mexico.
ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. Charles Crane, Utah.
7. John W. Clark, Georgia.
12. Russ D. Stephens, California.
13. Fred’r S. Fish, New Jersey.

14. Wm. M. Ferry, Utah.

15. Chas. H. Stanley, North Dakota.
ing exhibit. She will separate the microbes from water and vegetables, and show the practical working of this department.

Six statues in staff have been placed between the lofty windows in the main exhibit gallery. The statues are eight feet in height, representing heroic size, and illustrate Faith, Justice, Maternity, Art, Charity and Literature. The six women sculptors who did this work are, Mrs. Ellen Copp, Miss Taft, Miss Bessie O. Potter, Miss Caroline Brooks, Miss Scudder and Miss Bracken.

A kindergarten department will be conducted in the large room at the east end of the building, and the management has been placed in the hands of the Chicago Froebel and Free associations. The plan arranges for a kindergarten to be conducted during the six months of the Exposition as a part both of the educational exhibit and the women's exhibit of the State of Illinois in the State Building. The class will number fifty children, to be cared for by a director and two paid assistants. The daily session will occupy the morning hours. Some person competent to answer questions relative to the philosophy of the kindergarten will be present both during and after the session. Further instruction will be furnished by an afternoon course of talks or lectures.

Other departments of interest in which many women are engaged have exhibits, such as the work of women farmers; an exhibit of designing; specimens of wall-paper, textile fabrics, stained glass, embossed leather executed by women. Beside these two hundred and eighty-four patents have been issued to Illinois women. A complete set of copies of all these patents, together with models of as many of them as are given inventors, are shown in the exhibit.

The fish exhibit of the State is also made in the Illinois Building, the collection comprising about one hundred and thirty-nine species of fish. They are all suspended by a silken cord in glass jars of alcohol. The collections of darter and minnows is very interesting and they range in size, full grown, from one inch to six inches, comprising about thirty-two species. There are eleven species of catfish, including four species of stone-cats. One species, the gambusia, brings forth its young alive. This fish is found in the southern portion of the State. An odd looking specimen is the mufflejaw. It has a thick, knotty looking head and puffed-up jaws. This fish attains the length of five inches. It is found principally in the southern part of the State. The spoon-bill or shovel-cat has a broad, flat upper mandible which projects forward about the length of the rest of its body. This species is found in the lakes and large rivers.

INDIANA.

Following are the members of the Indiana State Board of Commissioners: Gov. Claude Mathews, Indianapolis; Clem. Studebaker, President, South Bend; Charles B. Stuart, Vice-President, La Fayette; William B. Roberts, Secretary, Indianapolis; Fred J. Hayden, Treasurer, Fort Wayne; B. F. Havens, Executive Commissioner, Terre Haute; Robert Mitchell-Princeton; Philip W. Frey, Evansville; Joseph Wilson, Washington; Royal E. Purcell, Vincennes; Jaspar Packard, New Albany; Sidney Conger, Flat Rock; Cortez Ewing, Greensburg; Edward Hawkins, Indianapolis; Daniel H. Davis, Knightsville; John G. Dunbar, Greencastle; D. J. Mendenhall, Westfield; J. V. Sweetser, Marion; J. M. Westcott, Richmond; Thomas Hart, Muncie; W. N. Hailman, La Porte; B. F. Louthain, Logansport; J. B. White, Fort Wayne; John L. Campbell, Crawfordsville; John B. Conner, Indianapolis; V. K. Offner, Vigo; S. S. Gorby, Indianapolis; W. A. Peck, Jr., Indianapolis; Mrs. May Wright Sewell, Indianapolis; Mrs. S. S. Harrell, Brookville; Mrs. Laura D. Worley, Elletsville; Mrs. E. P. Hammond, Rensselaer.

National Board Lady Managers: Miss Wilhelmine Reitz, Evansville; Mrs. Virginia C. Meredith, Cambridge City. Alternates: Miss Susan W. Ball, Terre Haute; Miss Mary H. Krout, Crawfordsville.


The Indiana Building is one of the most attractive, convenient and comfortable of all the State buildings. In the matter of space, Indiana has secured good sized sections in all the main buildings. The State building is situated north of the Woman's building and next to the building of Wisconsin. From the western veranda the hoosier visitors may enjoy a beautiful view of the
wooded islands, the lagoon, the Illinois Building and nearly all the main structures. It is French Gothic in design with cathedral windows, turrets and towers. Two large towers with spires, one at either side raising above the roof of the extreme point, are about 150 feet from the ground. The dimensions, including a veranda 20 feet wide with two floors extending entirely around the building, are 53x152 feet; height three stories and general appearance very massive. The towers are constructed of Colitic limestone brought from the Indiana quarries. The building is covered with staff. The entrance steps, balustrades and doorways are of handsome carved patterns of stone and make a fine display. The lower story floor is eneustatic tile of handsome pattern. Broad carved oak stairways lead from the lower floor into the towers of the building. The entire finish and the doors are of native quartered oak, carved and highly polished. On the first and second floors a wide hall extends through from one tower to the other, separating the office, parlors, reception and toilet rooms from the assembly room on the first floor, and the reading and writing room on the second floor, from the ladies' parlors, reception and toilet rooms in the north part of the building. On the ground floor is a parlor for women, with check and toilet rooms; a parlor for men, with check and toilet rooms. The assembly room on the lower floor is in the form of a half circle, or an immense bay window, and is used for the general reception room. On the second floor is a reading and writing room for the use of the general public, the women's private office and reception room, the office of the president, the State board and the executive commissioner. On the third story, over the main assembly room, is a large room suitable for a lunch room.

The building cost $75,000. The State paid upon it about $50,000. The balance was raised by contributions throughout the State in the way of material in construction and was solicited and obtained through the efforts of executive commissioner Havens. Chicago parties have been quite liberal in this matter and have donated material to the amount of $2,500. The balance of the contributions were raised in the State of Indiana.

IOWA.

Following are the members of the Iowa State Board of Commissioners: President, James O. Crosby, Garnavillo; Vice-President, John F. Duncombe, Fort Dodge; Treasurer, Wm. Hamilton Denz, Le Mars; Secretary, F. N. Chase, Cedar Falls. Executive Committee: S. H. Mallory, Chariton; S. B. Packard, Marshalltown; H. W. Seaman, Clinton; Henry Stivers, Des Moines; Charles Ashton, Guthrie Center; J. W. Jarnagin, Montezuma; A. C. Roberts, Fort Madison.

State Board of Lady Managers: President, Miss Ora E. Miller, Cedar Rapids; Vice-President, Mrs. N. C. Deering, Osage; Secretary, Mrs. Eliza G. Rhodes, Mount Pleasant; Treasurer, Miss Mary B. Hancock, Dubuque; Mrs. Flora J. McAchran, Bloomfield; Mrs. Whiting S. Clark, Des Moines; Mrs. Orvy H. Salts, Corning; Mrs. L. O. Penson, Council Bluffs; Mrs. John F. Duncombe, Fort Dodge; Mrs. A. M. Ainsworth, Onawa; Mrs. Ellen K. Cook, Davenport.

National Board Lady Managers: Mrs. Whiting S. Clark, Des Moines; Miss Ora E. Miller, Cedar Rapids. Alternates: Mrs. Ira F. Hendricks, Council Bluffs; Miss Mary B. Hancock, Dubuque.


The Iowa Building is undoubtedly one of the handsomest of the state buildings, and the decorations of the ceiling and walls of the main hall in corn and grasses is one of the most unique and attractive pieces of art work on the grounds. Scenes emblematic of agricultural, pastoral, mining and other pursuits are faithfully portrayed and are similar to those shown in the famous Corn Palace exhibitions in Sioux City. The structure is on the west side of the "Jackson Park Shelter" which belongs to the Park Commissioners, and serves as a receptacle for the State exhibit. The Iowa Building is 60x100 feet in size and two stories high. It is in wood and staff, with towers and roof corresponding to the "Shelter," so that the two structures combine harmoniously after the style of a French chateau, forming a very picturesque effect. On the first floor are found reception rooms for men and women, commissioners' offices, committee rooms.
postoffice, writing and baggage rooms. On the second floor are the assembly hall, photographic exhibit, reading and reporters' rooms. The building cost $35,000.

KANSAS.

Following are the members of the Kansas State Board of Commissioners: M. W. Cobun, President, Great Bend; L. P. King, Vice-President, Tannehill; Mrs. A. M. Clark, Secretary, Mankato; T. J. Anderson, Treasurer, Topeka; Geo. W. Glick, Atchison; A. P. Collins, Salina; H. H. Kern, Bonner Springs.


The ground plan of the Kansas Building is irregular. It approaches a square, one side being straight, and the other three forming irregular angles. It has a ground area of 135x138 feet. It is two stories high, built of frame and staff, and is surmounted by an elliptical glass dome. The main exhibition hall occupies nearly all of the first floor, and extends through to the glass dome. A balcony, from the second story, overhangs the main entrance on the south, and a second balcony extends around the base of the dome. The north end of the main floor is occupied by a natural history collection. There are also offices for the boards of commissioners on the first floor. Four flights of stairs lead to the second floor, where are rooms for the women's exhibits, a school exhibit, and parlors for the men and women. The building cost $25,000.

KENTUCKY.

Following are the members of the Kentucky State Board of Commissioners: W. H. Dulaney, President, Louisville; John W. Yerkes, Secretary, Danville; John D. Clardy, Newstead; James D. Black, Barboursville; A. D. James, Penrod; William R. Smith, Lexington; Zephania Meek, Catlettsburg; Mrs. Sue P. Brown, Owensboro; Miss Ida E. Symmes, Louisville; Miss Lucy Lee Hill, Lexington.

National Board Lady Managers: Miss Jean W. Faulkner, Lancaster; Mrs. A. C. Jackson, Covington. Alternates: Mrs. Sarah F. Holt, Frankfort; Mrs. Alice B. Castleman, Louisville.

National Commission: John Bennett, Richmond; Harvey Myers, Covington. Alternates: David N. Comingore, Covington; John S. Morris, Louisville.

The Kentucky State Building is typical of the Southern Colonial style, as distinguished from the New England, and suggests the better class of old Kentucky homesteads. The size of the building, exclusive of porches, is 75x90 feet, and in the center of the principal façade, under the covered porch, is the main entrance. To the left-hand side of the entrance, communicating with the lobby, is the parcel and check room and postoffice, while directly opposite is the office of the secretary, in connection with which is a smaller room used as an information bureau. The lobby opens on the great hall 35x40 feet in size, at the end of which is a wide stairway leading up to the second-story gallery. Under the wide platform in the center of the hall is the entrance to the dining-room. This platform is located midway between the two stories, and the greater part of this hall extends to the roof, with galleries around the second-story overlooking the first. On the left-hand side of the hall in a recess is placed the great hall fireplace. The mantel is 14 feet wide and the fireplace opening itself 8 feet, where great yule logs may be burnt. The ladies' parlors are on the left hand side of the building opening into the reception hall. The principal parlor is 20x36 feet, and communicates with the check-room and postoffice. On the right-hand side of the hall opposite the ladies' quarters are the gentlemen's parlors, the same size as the ladies' parlors, with a smoking room attached. Adjoining the main hall and smoking-room is a side entrance hall, upon which the men's toilet room opens. The dining hall is 20x40 feet, abundantly lighted and with a deeply recessed alcove for the fireplace, immediately opposite the entrance to the hall. This dining-room communicates with the necessary serving-rooms, store-room, kitchen and servants' bed-rooms. The second floor is a gallery 8 feet wide, around three sides of the open light-well, which extends from the first floor to
the top of the building, where it is roofed over with an obscured glass ceiling or sky-light. Extending across the entire front of the building, and opening on the wide gallery, are arranged three exhibition rooms, two of which are 20x27 feet, and the third 20x23 feet. On the right hand side, on this floor, is the commissioners’ room communicating with the main gallery, and also a private hall and stairway leading to the first floor. With this hall are connected two sleeping rooms and bath-rooms for the use of the commissioners. On the opposite side of the building is the lady commissioners’ committee room, and also a store-room, where packing cases, chairs, etc., can be stored. The three exhibition rooms are arranged so that they can be thrown together and form an assembly room. The interior is furnished in white or old ivory. The structure cost $18,000.

LOUISIANA.

Following are the members of the Louisiana State Board of Commissioners: A. A. Woods, President, New Orleans; Jos. A. Shakespeare, Vice-President, New Orleans; Robert Bleakley, Secretary, Chamber of Commerce Building, New Orleans; James M. Pagaud, Jr., Treasurer, New Orleans; John C. Wickliffe, State Commissioner; Thomas J. Woodward, New Orleans; A. Brittin, New Orleans; John Dymond, New Orleans; L. M. Finley, New Orleans, Lewis Johnson, New Orleans.

Ladies’ Auxiliary Board: Mrs. Belle H. Perkins; Mrs. Scott McGehee, Vice-Chairman; Mrs. Jos. Oglesby, Secretary; Mrs. W. W. Carré, Treasurer.


The Louisiana State Building is in the Colonial style and is an imitation of the old fashioned Creole homes of the Pelican State. It has a frontage of 66 feet, depth 56 feet, is two stories high with piazzas to both floors on parts of three sides. The first story is 14 feet in the clear, second story 13 feet. The building is finished in natural woods—principally cypress and white pine. The interior contains on the ground floor a large hall, off which is ranged reception rooms, dining room and smoking room. The second story contains a large exhibition room which communicates with smaller exhibition rooms and ladies’ parlor. Retiring rooms and lavatories have been provided on both floors. The building cost $18,000.

MAINE.

Following are the members of the Maine State Board of Commissioners: Hall C. Burleigh, President, Vassalboro; Henry Ingalls, Vice-President, Wiscasset; Eva A. Parcher, Secretary, Saco; Jas. A. Boardman, Treasurer, Bangor; Chas. P. Mattocks, Executive Commissioner, Portland; Clark S. Edwards, Bethel; Augustus R. Bixby, Skowhegan; Wm. G. Davis, Portland; D. J. Callahan, Lewiston; Jos. P. Bass, Bangor; Mrs. Kate May Andrews, Lewiston; Mrs. Lucinda M. Bellows, Freedom; Mrs. Agnes C. Paul, Fort Fairfield.

National Board Lady Managers: Mrs. E. C. Burleigh, Augusta; Mrs. L. M. N. Stevens, Portland. Alternates: Mrs. Sarah H. Bixby, Skowhegan; Miss Helen M. Staples, Hanover.


The Maine State Building is octagonal in form, with a ground area of 65 feet square. It is two stories in height, the roof surmounted by a lantern in the center, and four corner towers. The first story is of granite. The exterior finish of the rest of the building is in wood and staff. The roof is of slate. The central tower or lantern is 86 feet to its highest point. While the first story is octagonal in form, the second story presents but four sides, each with a loggia opening to the rooms within. The second-story floor overhangs the first story one foot. The main entrance of these arched doorways faces the southeast. Over it projects a boat’s bow, in staff. Within the entrance is an octagonal rotunda, open to the roof line, its ceiling being an ornamental colored skylight. On the first floor entrance is had to the fine parlors and reception rooms, designed for men and women, toilet rooms, and two commissioners’ rooms. A railed gallery extends entirely around the rotunda, which gives a complete view of the building.
GROVER CLEVELAND.

PRESIDENT OF THE UNITED STATES.
ADLAI STEVENSON,
Vice-President of the United States.
to the visitors. The interior finishing is very handsome, being done in hardwood. The granite and roof slate used in construction, the skylight in the rotunda, and the mantels over the fire-places are all the products of the State of Maine, and are donated by manufacturers. The building cost $22,000.

MARYLAND.

Following are the members of the Maryland State Board of Commissioners: Gov. Frank Brown, President, Baltimore; Hon. F. C. Latrobe, Vice-President, Baltimore; J. Olney Norris, Secretary, Baltimore; Otis C. Brownley, Assistant Secretary, Havre de Grace; Frank S. Hambleton, Treasurer, Baltimore; Wm. H. Love, Recording and Financial Secretary, Baltimore; George L. McCahan, Executive Commissioner, Baltimore; Chas. T. Davis, Assistant Executive Commissioner, Baltimore; Hon. Murray Vandiver, Havre de Grace, Harford county; David Hutzler, Baltimore; Frank N. Hoen, Baltimore; John R. Bland, Baltimore; H. H. Dashiel, Princess Anne; Frank R. Scott, Elkton; James T. Perkins, Springfield; Prince George's county.

Committee on Woman's Work: Mrs. Wm. Reed, Baltimore, Chairman; Mrs. Ethel E. Jackson, Salisbury; Mrs. Cha. M. Ellis, Elkton; Mrs. John Ritchie, Frederick; Mrs. Alexander Neil, Hagerstown; Miss Isabel Hampton, Baltimore; Miss Henrietta Szold, Baltimore; Miss M. E. Richmond, Baltimore; Miss Elizabeth King, Baltimore; Mrs. Henry Stockbridge, Baltimore.

National Board Lady Managers: Mrs. William Reed, Baltimore; Mrs. Alexander Thompson, Mt. Savage. Alternates: Mrs. J. W. Patterson, Baltimore; Miss Eloise Rornan, Cumberland.

National Commission: James Hodges, Baltimore; Lloyd Lowndes, Cumberland. Alternates: George M. Upshur, Snow Hill; Daniel E. Conkling, Baltimore.

The Maryland Building is near the lake and opposite the Virginia Building. It is a handsome structure and is divided into reception hall, ladies' toilet, ladies' parlor, exhibition hall, woman's department, bureau of information and main exhibition hall, beside spacious porches on the first floor. Gents' toilet, office, smoking room, reading room and three parlors which communicate constitute the second floor, and a gallery overlooking the main exhibition hall is entered from this floor. The flat deck roofs of porches and buildings offer fine points of vantage for overlooking the grounds of the World's Fair.

MASSACHUSETTS.

Following are the members of the Massachusetts State Board of World's Fair Managers: Gen. Francis A. Walker, Chairman, Boston; Mrs. Alice Freeman Palmer, Cambridge; Miss Anna L. Dawes, Pittsfield; Hon. Edward Burnett, Southboro; E. C. Hovey, Secretary and Executive Commissioner, Brookline.


The Massachusetts Building is in the Colonial style, and is largely a reproduction of the historic John Hancock residence, which, until the year 1867, stood on Beacon Hill, Boston, near the State capitol. The building is three stories high, surmounted in the center by a cupola. The exterior is of stucco, in imitation of cut granite. It follows the lines of the old house sufficiently faithful to recall the original to the minds of those who have seen it. Like the original, it is surrounded by a terrace, raised above the street, and has in front and on one side a fore-court, filled with old-fashioned flowers and foliage, in keeping with the character of the building. It is approached by two flights of steps—one leading from the street to the terrace, the other from the court to the house. The main entrance opens to a spacious, well-studded hallway, with a tiled floor. Facing the entrance is a broad, Colonial staircase, leading to the second floor. An old-fashioned, bull's-eye window gives light to the stairway. On the right of the hall is a large room, constituting a registration room, postoffice and general reception room. The fittings and furnishings of this room are unique. Its marble floor, its tiled walls, its uncovered beams, and its high mantel recall the old Dutch rooms found in Western Massachusetts, as well as in New York and Pennsylvania. On the left of the front door, or main entrance, are two large parlors, which, when thrown together, form a room 80 by 25 feet in size. The front parlor is furnished by the Essex Institute, of Salem, an old historical society. The back parlor is more especially a reading room for men. The second floor is given over almost
entirely to the use of women. There is a large and a smaller parlor, and two bedrooms for the use of the women’s board. The entire floor is furnished in old-fashioned furniture, and in the bedrooms are four-post bedsteads. On the third floor are rooms for servants. A liberty pole, 85 feet high, stands in the forecourt, and a gilded codfish serves as a vane on the top of the cupola. The building cost $65,000.

MICHIGAN.

Following are the members of the Michigan State Board of Commissioners: Isaac M. Weston, President, Grand Rapids; Eugene H. Belden, Vice-President, Horton; Mark W. Stevens, Secretary, Flint; James W. Flynn, Treasurer, Detroit; Gov. John T. Rich, Lansing; Mrs. Julia A. Pond, Hillsdale; Mrs. J. S. Valentine, Lansing; Peter White, Marquette.

National Board Lady Managers: Mrs. Eliza J. P. Howes, Battle Creek; Mrs. Sarah S. C. Angell, Ann Arbor. Alternates: Mrs. Frances P. Burrows, Kalamazoo; Miss Anna M. Cutcheon, Detroit.


The Michigan State Building is 100x140 feet; is three stories high and has a square shaped tower in the front center with an observatory on the top. A long gallery extends clear across the front. On the first floor are the administration offices, reception rooms, reading rooms, and ladies’ parlors. On the second floor are two large exhibition halls for Michigan relics, and native curiosities, assembly halls, and a room for board meetings. On the third floor are the living rooms for the secretary of State and his family, and employees of the State commission. The building is constructed entirely of native material. The Legislature of Michigan appropriated $20,000 for their State Exposition Building, but most of the materials were contributed so that the structure as it stands represents an outlay of $50,000. The prominent features of the exhibition are fruits, agricultural products, iron, copper, salt and other minerals, lumber, fish, furniture and other manufactures, and education.

MINNESOTA.

Following are the members of the Minnesota State Board of Commissioners: D. A. Monfort, President, St. Paul; J. La Due, Vice-President, Luverne; C. McC. Reeve, Secretary, Minneapolis; J. J. Furlong, Treasurer, Austin; A. L. Ward, Fairmont; George N. Lamphere, Moorhead; Gov. Knute Nelson, ex-officio, St. Paul; O. V. Tousley, ex-officio, Minneapolis; H. B. Moore, ex-officio, Duluth; L. P. Hunt, Superintendent State Exhibit, Mankato.

Women’s Auxiliary Board: Mrs. F. B. Clarke, President, St. Paul; Mrs. F. M. Greenleaf, Vice-President, Minneapolis; Mrs. A. A. White, Treasurer, Moorhead; Miss Mamie Dasse, Secretary, St. Paul; Mrs. Henry F. Brown, Minneapolis; Mrs. A. T. Stebbins, Rochester; Mrs. L. P. Hunt, Mankato; Mrs. Francis M. Crosby, Hastings; Mrs. Henry Hasenwinkel, St. Paul; Mrs. George Forsyth, Brainerd.

National Board Lady Managers: Mrs. F. B. Clarke, St. Paul; Mrs. H. F. Brown, Minneapolis. Alternates: Mrs. P. B. Winston, Minneapolis; Mrs. M. M. Williams, Little Falls.


The Minnesota Building is designed in the Italian renaissance style, two stories high, with a mezzanine story in the rear. The frame is of wood, covered with staff. The roof is of Spanish tile. The ground dimensions are 78x91 feet. The main entrance is on the south. In the recess within the entrance is a sculptural group, symbolizing the legend of Minnehaha and Hiawatha. On the first floor is the exhibition hall, 52x78 feet, a postoffice, baggage and ticket rooms, and superintendent’s room. The main stairway is in the rear, opposite the entrance, and on the landing, half-way up, is a semi-circular bay alcove, lighted with large glass windows. On the second floor is a reception hall, 30x33 feet, parlors and retiring rooms for men and women, and a committee room. In the mezzanine story are four bedrooms and two bath-rooms. The interior walls are plastered, decorated in fresco, in plain tints, and finished in pine. The women’s rooms have color decorations done by women of the State. The building cost $30,000.
MISSISSIPPI.


The Mississippi Legislature refused to pass an appropriation bill, hence that State has no building nor State Board of Commissioners.

MISSOURI.

Following are the members of the Missouri State Board of Commissioners: N. H. Gentry, President, Sedalia; Nathan Frank, Vice-President, St. Louis; Wm. Dawson, Secretary, New Madrid; Dr. E. McD. Colley, Treasurer, Platte City; Charles W. Green, Brookfield; H. H. Gregg, Joplin; Hugh J. McGowan, Kansas City; J. K. Gwynn, Executive Commissioner, St. Louis.

Ladies’ Auxiliary Board: Mrs. Patti Moore, Kansas City; Mrs. J. N. Edwards, St. Joseph; Mrs. Teresa B. Adams, St. Louis; Mrs. S. P. Sparks, Warrensburg; Mrs. M. J. Phelps, Springfield; Mrs. J. J. Russell, Charleston.

National Board Lady Managers: Miss Phoebe Couzins, St. Louis; Miss Lillian M. Brown, Kirkwood. Alternates: Mrs. Patti Moore, Kansas City; Mrs. A. L. Y. Orff, St. Louis.


The ground plan of the Missouri Building is square, with a quarter circle taken out of the southeast corner, to correspond with the form of the juncture of the two avenues on which it faces. To the south is the Art Building, and to the east, across the avenue, is Pennsylvania’s building. The building is 86x86 feet, two stories high. In the front, and over the main entrance, is an elliptical dome, 70 feet high, flanked by smaller octagonal domes, 48 feet high. The main entrance, which is in the southeast corner of the building, facing both avenues, is of cut brown stone from the quarries of Warrensburg, Mo. The balance of the structure is frame, covered with staff, and the columns and pilasters are of the same material. Within the main entrance is a rotunda, with a mosaic tile floor. On either side of the main entrance are minor entrances, the one on the left leading to the headquarters of Western Missouri and Kansas City, and the one on the right leading to the headquarters of Eastern Missouri and St. Louis. Within the rotunda are the telegraph office and the postoffice, occupying the space under the octagonal dome. On either side of the rotunda is a fountain. On the left of the rotunda are two exhibit rooms 30x20 feet and 28x17 feet. On the right is a journalists’ room, a reading-room, a library, and a bureau of information. Entrance is had to the rotunda from all of these rooms by tiled halls. Two flights of stairs, very handsome, in red and white oak, lead to the second floor. A promenade balcony with a marble floor overhangs the main entrance. A large auditorium room, irregular in shape, occupies the center and larger portion of the second floor. The southeast bay is occupied by a parlor and reading room for women, the southwest bay by a similar room for men. There are toilet rooms, and a committee room, and a special room for the Governor of Missouri. On the balcony floor are six bed-rooms, three in each bay, and a kitchen. The building contains thirty-two rooms. It is very handsome, and richly ornamented. The glass is all plate. This plate glass, as well as the tile for the roof and flooring, the plumbing, and the cut stone, is donated by Missouri manufacturers. The building cost $50,000.

MONTANA.

Following are the members of the Montana State Board of Commissioners: Stephen DeWolfe, President, Butte; Allen R. Joy, Vice-President, Livingston; James G. Ramsay, Secretary, Helena; David G. Browne, Treasurer, Fort Benton; W. M. Bickford, Executive Commissioner, Missoula; Phil Lovell, Dillon; Herbert O. Chowen, Great Falls; C. R. Middleton, Miles City; Alf. J. Stephens, Lewistown; Wm. M. Nevitt, Bozeman; Thomas Joyes, Boulder; A. J. Davidson, Helena; D. A. Pease, Twin Bridges; Wm. H. Sutherlin, White Sulphur Springs; George M. Hays, Billings; George W. Morse, New Chicago.

National Board Lady Managers: Mrs. Clara L. McAdow, Spotted Horse; Mrs. J. E. Rickards, Butte. Alternates: Mrs. M. D. Cooper, Bozeman; Mrs. L. E. Howey, Helena.

The Montana Building is in the Romanesque style of architecture, one story in height, and cost $20,000. It has a ground area of 62 feet front by 113 deep. The structure is frame, covered with staff, the interior being ornamented with heavy, projecting pilasters, with Roman caps and bases and Roman arches. The roof is of tin and canvas, and the building is surmounted by a glass dome 22 feet in diameter and 38 feet high. The front of the building, facing the south, presents two side wings, with a large arched entrance in the center. The fronts of the wings are ornamented with heavy, scrolled pediments. The entrance arch is 12x12 feet, supported by heavy columns. Within is the vestibule, with marble floor and ceiling paneled in staff. It presents a series of three arched doorways, the center one opening into the rotunda under the dome, the side doors leading to the men's and women's parlors. On either side of the entrance arch are balustrades, enclosing the vestibule. Flanking the arch are two panels, 4x5 feet in size, one bearing the State motto, "Oro y Plata"—gold and silver—and the other, "1893," in Roman figures. These panels are in pure sheet gold. Above the entrance arch, and practically on the roof of the building, is the figure of an elk, of heroic size, cast in staff. The interior is finished in Georgia pine. The walls are tinted in oil. All the main rooms open onto the rotunda, under the central dome. In the rear is a banquet hall, 40x50 feet, covered by a large skylight. In the center of this floor stands a group of three mounted elk. A wide gallery extends around the hall, and in the gallery the State exhibit is made. A life size statue of Miss Ada Rehan, the well known American actress, cast in solid silver and resting on a pedestal of gold (from Montana mines), is one of the interesting exhibits made by the State.

NEBRASKA.

Following are the members of the Nebraska State Board of Commissioners: Charles A. Coe, President, Omaha; A. H. Gale, Secretary Bassett; Joseph Garnea, Commissioner-General, Omaha; M. H. Weiss, Hebron; A. J. Sawyer, Lincoln; Seth P. Mobley, Grand Island; J. B. Steward, Benedict.

Woman's Auxiliary Board: Mrs. M. Allen Bock, President, Omaha; Miss Elizabeth W. Irwin, Secretary, Lincoln; Mrs. E. C. Langworthy, Chairman Executive Committee, Seward; Mrs. Edward Stewart, Blair; Mrs. W. H. McDonald, North Platte; Mrs. Alice D. Hume, Harvard; Mrs. J. H. Smith, Lincoln; Mrs. E. L. Eaton, Omaha; Mrs. J. H. Lynch, Hebron; Miss Antoinette Wortham, Pawnee City; Mrs. C. B. Wells, Matson; Mrs. A. Patterson, Omaha.


National Commission: Euclid Martin, Omaha; Albert G. Scott, Kearney. Alternates: William L. May, Omaha; John Lauterbach, Fairbury

The style of architecture of the Nebraska State Building is classical, and of the Corinthian order. The building has a ground area of 60x100 feet, and is two stories high. The exterior is of staff. On the east and west fronts are wide porticos, approached by flights of steps. Over the porticos are projecting gables, supported by six columns, twenty-five feet high, the full distance from the cornice to the floor. In each pediment is the State seal, in bas-relief, five feet in diameter. From each portico three large double doors of oak give entrance to the exhibit hall. The room is 60x70 feet, and in it an agricultural display is made. On the first floor, also, are one reception room, commissioners' office, baggage room and postoffice. A double stairway nine feet wide, leads from the center of the exhibit hall to the second floor. Here is an exhibit room, 60x70 feet, used for an art exhibit. On this floor are a women's parlor, reading room, smoking room and toilet rooms. The building cost $20,000.

NEVADA.

Following are the members of the Nevada State Board of Commissioners: J. A. Yarrington, Chairman and Secretary, Hawthorne; J. W. Haines, Genoa; George Russell, Elko.

National Board Lady Managers: Miss E. M. Russell, Elko; Mrs. D. M. Foley, Reno. Alternates: Miss Mary E. Davies, Genoa; Miss Jennie Torreyson, Carson.

The Nevada Legislature made an appropriation of $1c,000, which has been expended in making a complete showing of that State's mineral and agricultural resources. The former may be seen in the Mines and Mining Building and the latter in the Agricultural Building. The world-renowned pre-historic footprints, fossils, etc., which were removed from the floors of the quarry at the Nevada State prison at Carson, are also shown. These prints and fossils, etc., will undoubtedly prove most valuable to the scientific world. This is the first time the originals were ever removed, numerous museums in different parts of the world having them in plaster casts; they are shown in the Department of Mines and Mining and consist of footprints, fossils, bones, teeth, etc., of a very remote period. They were taken from a depth of thirty-four feet from the surface of the quarry of the State prison at Carson.

NEW HAMPSHIRE.

Following are the members of the New Hampshire State Board of Commissioners: Charles H. Amsden, President, Penacook; George F. Page, Vice-President, Concord; Thomas J. Walker, Secretary, Plymouth; Frank M. Rollins, Treasurer, Manchester; Elijah M. Shaw, Executive Commissioner, Nashua.


The New Hampshire Building is in imitation of a Swiss cottage. Its dimensions are 53x84 feet and it is two stories in height. The pitched, shingle roof is broken by five gables. The exterior is weatherboarded in stained Georgia pine above a line seven feet from the ground. This first seven-foot course is in New Hampshire granite. Each of the two stories is surrounded on all sides by a wide piazza. The rooms on the second floor open to the piazza through hinged windows opening to the floor. The entrance is on the east, facing the drive on Lake Michigan. On the first floor is a reception hall, 22x36 feet. It has two unique fire-places in pressed granite brick. To the rear of the hall is a wing of the main building, two stories high, the second story being a wide balcony or gallery to the main floor. The roof is a glass skylight. A State exhibit, a picture collection, and a large State map are shown here. Beside the reception hall on the first floor there are parlors for men and women. These rooms are ceiling, while the reception hall opens to the roof and is covered with a skylight. The second floor has a reception room and six board and committee rooms. The building cost $10,000.

NEW JERSEY.

Following are the members of the New Jersey State Board of Commissioners: Stephen J. Meeker, President, Newark; Edward Bettle, Vice-President, Camden; Walter S. Lenox, Secretary and Treasurer, Trenton; Peter Hauck, Harrison; Frederick A. Canfield, Dover; Millard F. Ross, New Brunswick; Garret A. Hobart, Paterson; Peter E. Swartsweller, Belvidere.

Lady Board of Managers: Mrs. Edwin Stevens, Chairman, Hoboken; Mrs. Thomas T. Kinney, Vice-Chairman, Newark; Mrs. Emily Warren Roebling, Secretary, Trenton; Mrs. Robert Adrain, New Brunswick; Miss Mary S. Clark, Belvidere; Miss Rosa Murray, Paterson; Mrs. Sarah G. Ware, Salem, N. J.; Mrs. Charles B. Yardley, East Orange.

National Board Lady Managers: Mrs. Mary E. Busselle, Newark; Mrs. Martha B. Stevens, Hoboken. Alternates: Mrs. C. V. Compton, Newark; Mrs. A. M. Smith, Newark.

National Commission: William J. Sewell, Camden; Thomas Smith, Newark. Alternates: Frederick S. Fish, Newark; Edwin A. Stevens, Hoboken.

Those familiar with the appearance of the Washington headquarters in Morristown, N. J., will recognize in New Jersey's building the nucleus of the general lines and details of that historic structure. The interest of the Morristown building is no doubt somewhat shared in by the New Jersey Building, and it seems that the State has done well in selecting the old headquarters as a starting point for the design, when it is remembered that under the roof of the old Morristown house more of the noted characters of the Revolution have gathered than under any other roof in America. General Washington made the building his headquarters during the winter of 1779 and '80, and Alexander Hamilton
lived there during the same long winter, and there "he met and courted the lady he afterward married, the daughter of General Schuyler."

Celebrated men, including Green, Knox, Lafayette, Steuben, Kosciusko, Schuyler, "Light Horse" Harry Lee, old Israel Putman, "Mad Anthony" Wayne, and "that brave soldier but rank traitor, Benedict Arnold," have all been beneath its roof. This building is used as the headquarters of New Jersey commissioners, and is a place where every New Jerseyman and his family is made to feel at home, where he can meet his friends, can register his address and receive his letters. It is, in fact, a part of his own State transported to the Exposition grounds. The site of the building is centrally located among those of the States of New York, Massachusetts, Rhode Island and Connecticut. The building is not intended for exhibition purposes, but is more in the nature of a club-house for the use and convenience of all Jersey people. There are large and inviting piazzas on the front and rear. The main entrance opens into a large general assembly hall, two stories high with a circular balcony looking down from the second story. This hall contains the postoffice and the hat and cloak counter, a large open fire-place, nearly ten feet across, and the main staircase, this latter being made a feature of the design. On the right hand side of the building are located the rooms set apart especially for the ladies; these consist of the general meeting room of the Ladies' Board of Managers, two parlors on the second floor, with lavatories and bath-rooms. On the left hand side of the building are the rooms set apart for gentlemen, the secretary's office, board room, president's room, committee rooms and lavatories. In the third story are the care-takers' apartments and store-rooms for documents, etc. The building is principally of frame construction, covered with clapboards and with some of the ornamental portions in staff. The roof is shingled. The dimensions of the main building are 51 feet long, 31 feet deep and 37 feet high to the ridge. Each wing is 16 feet front, 21 feet deep and 30 feet high. The piazzas, in front and rear, are each 68 feet long by 16 feet wide (at the widest part). The area covered, including piazzas, is 3,949 square feet. The general style of the building is Colonial. The cost is $40,000. Considerable of the material was donated by manufacturers in the State.

NEW YORK.

Following are the members of the New York State Board of Commissioners: Chauncey M. Depew, president, New York; Gorton W. Allen, Vice-President, Auburn; John Foor, Secretary, Albany; Donald McNaughton, Executive Officer, Albany; John Boyd Thatcher, Albany; Louis M. Howland, New York; Walter L. Sessions, Jamestown; Charles A. Sweet, Buffalo.

Judicial District Commissioners: First Judicial District—City and County of New York—Richard Delafield, President, 10 West 9th street, New York; Samuel W. Fairchild, Secretary, 82 Fulton street, New York; James W. Tappin, Treasurer, 60 Broad street, 558 Fifth avenue, New York; Edmund C. Stanton, Secretary to the Commissioners, office, Madison Square Bank Building, New York City. Second Judicial District—Richmond, Suffolk, Queens, Kings, Westchester, Orange, Rockland, Putnam and Dutchess—Daniel M. Somers, President, 101 Halsey street, Brooklyn; Cord Meyer, Jr., Secretary, 11 Wall street, New York; Henry Seibert, Treasurer, 608 Bedford avenue, Brooklyn, 12 and 14 Warren street, New York; Thomas F. Farrrell, Secretary; John Phillips, Chief Clerk, office, Rooms 2 and 3 Eagle Building, Brooklyn, N. Y. Third Judicial District—Columbia, Sullivan, Ulster, Greene, Albany, Schoharie and Rensselaer—John T. Norton, President, 37 Tweddel Building and 300 State street, Albany; William H. Row, Jr., Secretary, 76 Franklin street, Troy, N. Y.; Manly B. Mattice, Treasurer, Catskill; George S. Stevens, Chief Clerk, office, Capitol, Albany. Fourth Judicial District—Warren, Saratoga, Washington, Essex, Franklin, St. Lawrence, Clinton, Montgomery, Hamilton, Fulton and Schenectady—Edward Ellis, President, Schenectady; Thomas J. Whitney, Secretary, Gouverneur; George S. Weed, Plattsburgh; Harry S. Estcourt, Chief Clerk, office, Room 12, Town Hall, Saratoga Springs, N. Y. Fifth Judicial District—Onondaga, Oneida, Oswego, Herkimer, Jefferson and Lewis—John F. Gaynor, President, Fayetteville; Walter N. Kernan, Secretary, Utica; George B. Sloan, Treasurer, Oswego; Chief Clerk, office, Kirk Block, Syracuse, N. Y. Sixth Judicial District—Onondaga, Delaware, Madison, Chenango, Broome, Tioga, Chemung, Tompkins, Cortland and Schuyler—Hugh Duffy, President, Cortland; George F. O'Neil, Secretary, Binghamton; Robert H. Thurston, Ithaca; J. Frank Hawkins, Chief Clerk, office, Strong Block, Binghamton, N. Y. Seventh Judicial District—Livingston, Wayne, Seneca, Yates; Ontario, Steuben, Monroe and Cayuga—William S. Kimball, President, Rochester; Henry Stowell, Secretary, Seneca Falls; Edwin C. Cook,
BENJAMIN HARRISON,
EX-PRESIDENT OF THE UNITED STATES.
LEVI P. MORTON,
EX-VICE-PRESIDENT OF THE UNITED STATES.
Bath; W. H. Benjamin, Chief Clerk, office, Chamber of Commerce, Rochester, N. Y. 


Officers of the Board of Managers: Mrs. Erastus Corning, President, Albany, N. Y.; Mrs. George Waddington, First Vice-President, 88 E. Ninth street, New York City; Mrs. J. S. T. Stranahan, Second Vice-President, 269 Union street, Brooklyn, N. Y.; Mrs. Leslie Pell Clarke, Secretary, Springfield Center, Otsego County, N. Y.; Miss Frances Todd Patterson, Treasurer, Westfield, Chautauqua County, N. Y.; Mrs. Florence C. Ives, Chief Clerk, office, the Capitol, Albany, N. Y. Executive Committee—Mrs. Dean Sage, Chairman, Menands, Albany County, N. Y.; Mrs. Frederick P. Bellamy, 50 Garden Place, Brooklyn, N. Y.; Miss Anna Roosevelt, 659 Madison avenue, New York City; Miss Caroline E. Dennis, Auburn, N. Y.; Mrs. Howard G. White, Syracuse, N. Y.; Mrs. H. Walter Webb, 202 Madison avenue, New York City. Committee on Philanthropy—Mrs. Arthur M. Dodge, Chairman; Miss Maria M. Love, Miss Anna Hemstroumg, Miss Anna Roosevelt, Miss Caroline E. Dennis, Mrs. F. P. Bellamy. Committee on Raising Funds and Decorating the Library in Women's Building—Mrs. Dean Sage, Chairman; Mrs. H. Walter Webb, Mrs. Wm. J. Averill, Mrs. Oscar S. Straus, Mrs. C. F. Wadhurst; Mrs. J. S. T. Stranahan; Mrs. Wheeler is to serve on this committee. Committee on Education—Mrs. F. P. Bellamy, Chairman; Mrs. J. S. T. Stranahan, Miss F. T. Patterson, Miss I. J. Howard. Committee on Work for Women's Work—Rev. P. W. and Prof. A. M. Anna Roosevelt, Chairman; Mrs. George Waddington, Mrs. H. G. White, Miss Anna Hemstroumg, Mrs. C. F. Wadhurst, Miss Frances T. Patterson. Committee on Manufactures and Industries—Miss Anna Roosevelt, Chairman; Miss Anna Hemstroumg, Mrs. Leslie Pell Clarke, Mrs. A. M. Dodge, Mrs. Wm. Averill, Mrs. Fred. R. Halsey. Committee on Fine Arts—Mrs. Leslie Pell Clarke, Chairman; Mrs. J. S. T. Stranahan, Mrs. Dean Sage, Mrs. Fred R. Halsey. Committee on Women's Work in Literature, Literary Clubs and the Press—Mrs. F. P. Bellamy, Chairman; Mrs. J. S. T. Stranahan, Miss Anna Roosevelt, Mrs. Oscar S. Straus, Mrs. T. M. Wheeler, in charge of Bureau of Applied Arts, 1122 Broadway, New York City; Miss Juliet Corson, in charge of Model Kitchen Department.


New York's State Building ranks in size next to that of Illinois and California. It costs $150,000. The architectural idea in the building is that of a summer house. It is three stories high, being 57 feet from the ground to the cornice. The exterior is in staff, in imitation of marble, and in keeping with the style of the main Exposition buildings. Its decked roof is surmounted and confined by a heavy balustrade. Each pedestal of the balustrade supports a large Italian vase, in which grows a bay-tree, giving the building together with its other characteristics, the air of a Pompeian house. The flat, decked roof furnishes a promenade and summer garden. From its center rises a clerestory over the banquet hall, and above the clerestory are two bellviders. On the
north and south ends of the building are circular porticoes, in each of which is a fountain. The general dimensions are 160 feet front by 105 feet deep. A broad flight of steps, guarded by Roman lions, leads to the arched entrance. About this entrance is concentrated all the exterior ornamentation of the building. It is in the style of the Italian renaissance, a villa in character, rectangular in form, approached on the south by a flight of fourteen steps, 46 feet wide, giving access to a grand terrace, 15x80 feet, from which the loggia, or open vestibule, 46x17 feet 6 inches is reached. Partaking of the domestic as well as the palatial style, the building is not only the headquarters of New York people at the Exposition, but also a most comfortable place for the reception and entertainment of distinguished foreign guests. The semi-circular porticoes, east and west, have a diameter of 50 feet in the form of an exedra, and the uncovered portion, furnished with the fountain, is a unique feature of the building. It is proposed to place a bust of Washington upon the key block over the main entrance, and at either side those of the first and the present governors of the State. The main floor of the building consists of the vestibule, a grand staircase hall, with a dome ceiling 46 feet from the floor, a small reception-room, a suite of three drawing-rooms, smoking, writing and reading-rooms, lavatory and coat-room, post-office and telegraph and telephone service and bureau of information. The second floor contains a large hall, 84 feet long, 46 feet wide and 45 feet in height, on the west of which is the room reserved for the Board of Lady Managers. There is also offices for the General Managers' Board and the Board of District Commissioners. The entrance to the building is flanked by the Barbarini lions recently cast in Rome, selected in preference to the lions of the Villa Medici, which however fine, are inferior in size. The four pedestal lamps lighting the terrace are exact copies in bronze of antique examples in the Museum at Naples, and are richly sculptured. In the circular niches, on either side of the arch of the entrance, are busts of Hudson and Columbus. Above the key-stone of the arch is the American eagle, and dependent from a staff, projecting above the bird, is a flag, bearing the State's arms. A striking feature of interior adornment is the arrangement of the electric lights, in a belt course, marking the second story floor, and outlining the arched entrance, above which the great seal of the State of New York, 10 feet high, is illuminated by a myriad of tiny lamps set close together. A second line of illumination accents the main cornice, and similar ones define the edge of the roof garden, and the arches, angles and cornices of the two belviederes. Finally, a cluster of lights illuminate the bases of the flag-poles. Within and without the building blaze 2,000 electric jets. In the main hall on the first floor, besides the beautiful fountains scattering their cooling sprays within the spacious porticoes, an object of unusual interest is a relief map nearly 20 feet in diameter of the State of New York, which of itself cost $30,000. This main hall has a mosaic floor and is hung with imported silk hangings. Here are the parlors and toilet-rooms for men and women, postoffice, information and baggage-rooms. The grand stairway is of marble, and leads to the banquet hall, where the visitor can not fail to be impressed with the elegance of the surroundings. The beautiful arched ceiling, three stories high, is richly ornamented with designs of fruits done in stucco. On the third floor, in addition to twelve rooms for general purposes there is a gallery for a band of music.

NORTH CAROLINA.

Following are the members of the North Carolina State Board of Commissioners: W. F. Green, President, Franklin; P. M. Wilson, Executive Commissioner, Winston; T. K. Bruner, Secretary and Commissioner of Exhibits, Raleigh; H. E. Fries, Salem; W. R. Capehart, Avoca; W. E. Stevens, Clinton; J. H. Gilmer, Greensboro; J. F. Payne, Alma; W. R. McClelland, Mooresville; J. B. Coffield, Everetts; C. D. Smith, Franklin; W. R. Williams, Falkland; Gov. Elias Carr, Ex-officio, Raleigh.

National Board Lady Managers: Mrs. Florence H. Kidder, Wilmington; Mrs. Charles Price, Salisbury. Alternates: Mrs. Sallie S. Cotten, Falkland; Miss V. Stella Divine, Wilmington.

North Carolina has no building, but the State makes collective exhibits in the Agricultural, Horticultural, Mines, Fisheries and Forestry departments.

NORTH DAKOTA.

Following are the members of the North Dakota State Board of Commissioners: Martin Hector, President, Fargo; D. R. McGinnis, Secretary, Grand Forks; Alfred Dickey, Executive Manager, Jamestown; Jacob A. Field, Bismarck; John M. Turner, Mandan; O. G. Meacham, Carrington.

National Board Lady Managers: Mrs. S. W. McLaughlin, Grand Forks; Mrs. W. D. McConnell, Fargo. Alternates: Mrs. Alice B. Brown, Lisbon; Mrs. Frances C. Holley, Bismarck.

National Commission: H. P. Rucker, Grand Forks; Martin Ryan, Fargo. Alternates: Charles H. Stanley, Steele; Peter Cameron, Tyner.

The headquarters for North Dakota visitors is a pretty, hospitable-looking building adjacent to that of Kansas. The building is 70x50 feet. A space 46x21 feet in front of the main assembly hall, between the two committee rooms, is used as a court-yard. From this court-yard the main assembly room is entered through a large stone arch, above which on the exterior is an elaborately carved panel containing the coat of arms of North Dakota. The main feature of the interior is the assembly hall, which includes a space 24x56 feet. The room is spanned by four broad arched beams between each of which is a wide window reaching from near the floor to the roof. At either end of the room is a broad fire place. Committee and toilet rooms are provided throughout the building. The structure is two stories high, and on the exterior the walls of the main gable ends are built of brick. The remainder of the walls are of timber, filled in between with plaster panels. North Dakota pays great attention to the exhibit of her principal product, wheat, but also makes a good showing in several other departments. The educational advantages of the State are fully presented, and her exhibit is among the best.

OHIO.

Following are the members of the Ohio State Board of Commissioners: W. W. Peabody, President, Cincinnati; Chas. M. Anderson, Vice-President, Greenville; W. T. Alberson, Secretary, Columbus; Lewis N. Bonham, Treasurer, Columbus; Daniel J. Ryan, Executive Commissioner, Columbus; Albert Schwil, Cincinnati; James W. See, Hamilton; Charles M. Harding, Franklin; David Hall, Bloom Center; A. O. Jones, Zanesville; A. C. Cummins, Mansfield; William E. Setton, Canton; L. E. Holden, Cleveland; William Edwards, Cleveland; H. G. Baker, Defiance, P. M. Cullinan, New Lexington; Harvey P. Platt, Toledo; William Ritchie, Hamilton; Mrs. Mary Hart, Glendale; Mrs. Walter Hartpence, Harrison.


The Ohio State Building is Colonial in style, two stories high, of wood and staff, with tile roof. The ground area is 100 feet front by 80 feet deep. The main entrance, on the east, is within a semi-circular Colonial portico, thirty-three feet high, the roof supported by eight great columns. The tile roof, mantels, finishing woods, and much of the visible material are the gifts of Ohio producers. The main entrance opens on a lobby, on the left of which is the women’s parlor, and on the right a committee room. Occupying the central portion of the building is the reception hall, 23x36 feet, and 28 feet high, extending through to the roof. The coved ceiling of the hall is ornamented. Back of the reception hall is an open court, 36 feet square, inclosed on three sides, the north and south side being formed by the wings of the building. All of the north wing is occupied by the information bureau. The room is 30x50 feet, and is divided into offices by wire railings. In the south wing is the parlor for men, a writing room, a smoking room, and toilet rooms. On the second floor of the north wing is the assembly room, 30x42 feet. The second floor of the south wing has a press correspondents’ room, servants’ rooms, bed and bath rooms. The building cost $35,000.
OREGON.

Following are the members of the Oregon State Board of Commissioners: George T. Myers, President; Portland; Phil Metschan, Treasurer, Salem; C. B. Irvine, Secretary, Salem; W. P. Matlock, Pendleton; J. R. Carroll, Portland; E. B. McElroy, Salem; C. W. Ayres, Ashland; Mrs. M. Peyton, Salem; Mrs. E. W. Allen, Portland; George W. McBride, Salem; Henry Klippel, Medford; M. Wilkins, Coburg; J. A. Wright, Sparta.


Oregon's Legislature made a large appropriation, but that State has no building. An exhibit is made in the Department of Horticulture.

Pennsylvania.

Following are the members of the Pennsylvania State Board of Commissioners: G. Robert E. Patterson, President, Harrisburg; Louis A. Wartes, Vice-President, Scranton; Robert E. Wright, Secretary, Harrisburg; J. S. Dilling, Assistant Secretary, Harrisburg; Rodney A. Mercur, Treasurer, Towanda; A. B. Farquhar, Executive Commissioner, Harrisburg; John A. Woodward, Deputy Executive Commissioner, Harrisburg; Wilson M. Gearhart, Chief Clerk, Harrisburg; Albert J. Barr, Pittsburg; Luther S. Bent, Steelton; Thomas Bradley, Philadelphia; Robert L. Brownfield, Philadelphia; John I. Carter, Chatham, Chester County; W. W. Clendenin, New Castle; L. Clarke Davis, Philadelphia; Lewis Emery, Jr., Bradford; P. Foley, Pittsburg; J. P. S. Godin, Lebanon; James M. Guffey, Pittsburg; Wm. B. Gill, Philadelphia; J. K. P. Hall, St. Mary's, Elk County; Wm. Hasson, Oil City; Joel A. Herr, Cedar Springs, Clinton County; Mrs. Mabel Cronise Jones, Harrisburg; Mrs. Harriet Anne Lucas, Philadelphia; H. J. McAteer, Alexandria; Miss Mary E. McCandless, Pittsburg; Towanda; Thomas P. Merritt, Reading; Simon Muhr, Philadelphia; Robert Purvis, Philadelphia; R. Bruce Ricketts, Wilkesbarre; Geo. N. Riley, Pittsburg; A. G. Roesnick, Pittsburg; Roger S. Searle, Montrose; A. W. Taylor, Philadelphia; Mrs. Ida A. Elkins Tyler, Philadelphia; C. C. Thompson, Warren; Joseph C. Walker, Gap, Lancaster County; Benjamin Whitman, Erie; P. A. B. Widener, Philadelphia; Edward H. Williams, Philadelphia; Morgan B. Williams, Wilkesbarre; John W. Woodside, Philadelphia; Mrs. Matilda Holt Shelton, Commissioner of Woman's Work, Philadelphia.

National Board Lady Managers: Miss Mary E. McCandless, Pittsburg; Mrs. Harriet Anne Lucas, Philadelphia. Alternates: Mrs. Samuel Plumer, Franklin; Mrs. W. S. Elkins, Philadelphia.


The Pennsylvania State Building is in the colonial style of architecture, while the front is an exact reproduction of old Independence Hall, having its entrances, bell-tower and spire. Independence bell hangs in the rotunda. The rotunda within the entrance is finished in tile and slate, like the old hall. The building is rectangular in form, two stories high, with a ground area of 110x166 feet. The corners of the front are quarter-circled in. Piazzas 20 feet wide surround the building, and over them are verandas, with protecting balustrade. Outside staircases, right and left to the rear, lead to the garden on the roof. This roof is covered with American-made tin produced in Philadelphia. The outer walls to the roof line are of Philadelphia pressed brick. Above the main entrance is the coat-of-arms of the state in bas-relief, and on either side of it are heroic statues of Penn and Franklin. The front is further ornamented with two free groups of statuary, one emblematic of the arts and sciences, the other of mines and manufacture. The interior finishing represents, in the floors, native marble and hard woods from Pennsylvania, and the walls are wainscoted in wood, frescoed, and heavily corniced. The woman's rooms are finished in maple, and the men's in oak. The walls of the women's rooms are ornamented with mural paintings by Pennsylvania women. All the ceilings are of stamped metal, and the staircases are of quartered oak. On the main floor is the reception room, 33x56 feet, and on either side are parlor for men and women. On the second floor are rooms for the Governor, the press correspondents, the treasurer of the commission, and the board of commissioners. There are three bedrooms in the tower. The building is supplied with 800 electric lights, and cost $80,000.

The following interesting relics are on exhibition in the Pennsylvania Building: Portraits of William Penn; Hannah, his wife and a chair owned by Penn; a
punchbowl used by Washington during the Revolution; portrait of Washington painted when he was commander in chief of the Continental army; portrait of Thomas Johnston, who made the motion to have Washington appointed commander-in-chief; plaster cast of Washington; Gen. Anthony Wayne's sword; silver lamp used in Philadelphia during the Revolution; bootjack and appliance left by a British officer at the home of Joseph Martin, Philadelphia, at the time of the evacuation; fork and spoon from Valley Forge; waistcoat worn at republican court; lace scarf pin worn by Mrs. John Adams when she sat to Stuart for her portrait; model of the ship Constitution; portrait of Chevalier Gerard, first French minister to the United States; watch and vest and stockings worn by Charles Carroll when he signed the Declaration of Independence; hymn book printed in Germantown in 1772; manuscript of the first prayer in Congress in the penmanship of John Hancock; chair used by John Hancock, first President of Congress, and also his sword and desk. The Old Liberty Bell is placed on a handsome raised platform built on rollers, so that in case of fire it can be rolled into the open air in three minutes' time.

RHODE ISLAND.

Following are the members of the Rhode Island State Board of Commissioners: E. Benjamin Andrews, President, Providence; Arthur H. Watson, Vice-President, Providence; Charlotte F. Dailey, Secretary and Treasurer, Providence; John C. Wyman, Executive Commissioner, Providence; John P. Sanborn, Newport; Hiram Howard, Providence; Walter A. Peck, Providence; Marsden J. Perry, Providence; Daniel B. Pond, Woonsocket; Richard Thornley, Greenwich.

National Board Lady Managers: Mrs. Amey M. Starkweather, Pawtucket; Miss Charlotte F. Dailey, Providence. Alternates: Mrs. George A. Mumford, Pawtucket; Miss Loraine P. Bucklin, Providence.

National Commission: Lyman B. Goff, Pawtucket; Gardiner C. Sims, Providence. Alternates: Jeffrey Hazard, Providence; Lorillard Spencer, Newport.

The Rhode Island Building cost $8,000. It is after the Greek manner, with columnar porticos on four sides of the building, that on the west or front side semi-circular in plan, with arched openings between the Ionic pilasters, the latter being of the full height of the two stories.

The building is amphiprostyle in that the north and south porches—each of the full width of the building—consist of four fluted Ionic columns, each 24 inches in diameter and 21 feet high, while the rear entrance is between Ionic fluted pilasters, the same as in front.

The columns are surmounted by an enriched Ionic entablature with decorated moldings, modillions and dentils, and above the entablature the building is finished with a balustrade surrounding the four sides of the roof, with ornamental urns over each pedestal in the balustrade. The building has ground area of 32x59 feet, two stories high, in wood and staff, in imitation of granite. Entrance is had to the building from all sides through French windows opening to the floor. The main hall is 18x25 feet, and is open in the roof. The parlor for women and the secretary's office are on the first floor. On the second floor are two committee rooms and a gallery around the main hall. The Governor's room occupies what may be called the second story of the porch on the west front. All the floors are hard wood, and the interior is furnished in cypress.

SOUTH CAROLINA.

National Board Lady Managers: Miss Florida Cunningham, Charleston; Mrs. E. M. Brayton, Columbia. Alternates: Mrs. Clark Waring, Columbia; Mrs. C. A. Perry, Walhalla.


The South Carolina Legislature voted adversely on the question of making an appropriation, therefore that State has no building. An exhibit is made in the Department of Mines and Mining.

SOUTH DAKOTA.

Following are the members of the South Dakota State Board of Commissioners: L. G. Ochsenreiter, President, Webster; T. H. Brown, Secretary, Sioux Falls; W. W. Taylor, Treas-
ur, Redfield; C. E. Hinds, Woonsocket; William M. Powers, Yankton; F. T. Evans, Sr., Hot Springs; P. F. McClure, Pierre; J. E. Pilcher, Custer City; John Baker, Deadwood; T. G. Quarve, Langford.

Women's World's Fair Commission: Mrs. Wm. Duff Haynie, President, Rapid City; Mrs. J. S. Oliver, Vice-President, Huron; Mrs. L. Q. Jeffries, Secretary, East Pierre; Mrs. John E. Bennett, Treasurer, Clark; Mrs. A. C. Mellette, Watertown; Mrs. W. A. Burleigh, Yankton; Mrs. Geo. A. Silsby, Mitchell; Mrs. J. A. Tow, Madison; Mrs. Marie J. Gaston, Deadwood.

National Board Lady Managers: Mrs. John R. Wilson, Deadwood; Mrs. H. M. Barker, Huron. Alternates: Mrs. C. E. Daniels, Watertown; Mrs. Marie J. Gaston, Deadwood.


The South Dakota State Building has a ground area of 70x126 feet, and is two stories high and cost $20,000. The structure is frame, the exterior being covered with Yankton cement, in imitation of stone work. The roof is corrugated iron and the cornice and brackets are pressed zinc. The main entrance is on the east, along which front extends a wide porch with heavy columns supporting a balcony from the second story. On the left of the main entrance is a women's parlor, on the right a men's reception room. In the main body of the building is the exhibition hall, 44x58 feet. Six feet above the main floor is an entresol, having committee rooms for the boards of commissioners. In the northwest corner of the main floor is a room for press correspondents. The rotunda in the center of the building extends through to the roof and is covered with a skylight. The second floor is devoted to rooms for the women's exhibit and special State exhibits.

TENNESSEE.

National Board Lady Managers: Mrs. Laura Gillespie, Nashville; Mrs. Susan Gale Cooke, Knoxville. Alternates: Mrs. Carrington Mason, Memphis; Mrs. J. J. McClung, Knoxville.


The Tennessee Legislature failed to make an appropriation, hence there is no State Board of Commissioners nor State building. The mining town of Harrison makes an exhibit in the Mines Building, but otherwise there is no collective exhibit shown.

TEXAS.

Following are the members of the Texas State Board of Commissioners: H. B. Andrews, President, San Antonio; William F. Ladd, 1st Vice-President, Galveston; A. C. Herndon, 2d Vice-President, Houston; D. D. Bryan, Secretary, Galveston; W. L. Moody, Treasurer, Galveston; R. B. Parrott, Waco; W. C. Connor, Dallas; J. S. Rice, Hyatt; J. N. Browning, Clarendon; Julius Runge, Galveston; George Mann, Galveston; John Adriance, Galveston; Walter Gresham, Galveston; Mrs. W. H. Tobin, President State Board of Lady Managers, Austin; Mrs. Rosine Ryan, Lady Manager-at-large, Austin.

National Board Lady Managers: Mrs. Ida L. Turner, Fort Worth; Mrs. Mary A. Cochran, Dallas. Alternates: Mrs. K. C. McDaniel, Anderson. (Vacancy.)


Texas has erected a handsome building on the right of the north entrance to the Exposition grounds, and this notwithstanding the failure of the State Legislature to make an appropriation on account of constitutional prohibition. The money for the structure was raised by the Women's World's Fair Exhibit Association of Texas, with headquarters at Austin, the State capital. General regret was expressed when the solons of the Lone Star State failed to make a suitable appropriation for the representation of the resources of that great commonwealth. Mr. John T. Dickinson, the efficient secretary of the National Commission, is a resident of Texas, and he did all in his power to bring about a more favorable and extensive exhibit from his native and beloved State. He wrote numerous articles for the Texas newspapers, traveled and spoke all over the State, induced other prominent Exposition officials to help him in the work of creating a sentiment which would crystallize into favorable action by the law-making powers, and was materially aided in his efforts by numerous prominent citizens of Texas, but to the chagrin and disappointment of thousands of pro-
JOHN P. ALTGELD,
GOVERNOR OF ILLINOIS.
gressive and enterprising Texans, as well as to their numerous friends all over the country, the appropriation failed to pass, and Texas, once an entire republic itself and now one of the finest, best and most progressive in the galaxy of the States of this union, is not represented at the Fair in such manner as becomes its grandeur. All credit, however, to the noble band of ladies of the Exhibit Association for what Texas has to show. In the treatment of the design of the Texas Building the architect has not deflected from the history of the Lone Star State, which, from its foundation, has been marked by a Spanish tinge, whose architectural inclination and handsome botanical effects lay down a chain of thought far too beautiful to be forsaken for that of the present day; therefore, the building was designed for colonnades, grounds, fountains, foliage, etc. It contains an assembly room 56 feet square, 28 feet high, provided with art glass skylight in the ceiling, with a mosaic Texas star in the center. The rostrum, ante-rooms, etc., are furnished in the natural woods of Texas. One wing contains rooms for bureau of information, register, messenger, telephone, telegraph, directors, Texas Press Association headquarters, commissioners, historical museum and library, toilet rooms, county collective exhibits, etc. The main entrances are through vesti- bules, flanked on either side by niches and colonnades. The main vestibules terminate in a large auditorium, connecting with the rooms mentioned.

VERMONT.

Following are the members of the Vermont State Board of Commissioners: Gov. L. K. Fuller, Brattleboro, Ex-officio; H. H. McIntyre, Secretary, Treasurer and Executive Commissioner, West Randolph; B. B. Smalley, President, Burlington; A. J. Sibley, Montpelier; A. F. Walker, Chicago, Ill.; Mrs. Ellen M. Chandler, Pomfret; Mrs. Elizabeth V. Grinnell, Burlington; Mrs. Theresa J. Cochran, Groton; Mrs. Mina G. Hooker, Brattleboro.

National Board Lady Managers: Mrs. Ellen M. Chandler, Pomfret; Mrs. Elizabeth V. Grinnell, Burlington. Alternates: Mrs. M. G. Hooker, Brattleboro; Mrs. T. J. Cochrane, Groton.


The Vermont State Building is one of the most unique and original on the grounds. On the right and left of the steps on the facade rise two shafts, on which are allegorical figures representing the industries of agriculture and quarrying—the two principal industrial activities of the State. One enters through a columned portico into a courtyard, on the right and left of which are covered porches with broad seats. Just off these are the reception rooms in front and committee room, postoffice, etc., in the rear. In the center of the court is a handsome marble fountain. Marble from the quarries of the State is used all through the interior of the building. Facing the end of the court is a porch, supported by four caryatids, over which is a semicircular Greek window with bas-relief around it representing "Freedom and Unity." The coat-of-arms is in the center. The reception hall, which is located in the rear, is circular in form, with a colonnade around, and a wooden dome surmounts the structure. All is colored according to a Pompeian scheme. The building is Pompeian in style and of classic detail, and furnishes a most unique contrast to the other buildings.

VIRGINIA.

Following are the members of the Virginia State Board of Commissioners: A. S. Buford, President, Richmond; John L. Hurt, Vice-President, Hurt’s Store; T. C. Morton, Secretary, Richmond; M. S. Quarles, Treasurer, Richmond; John S. Apperson, Executive Business Commissioner, Richmond; Dr. A. Brockenbrough, Chesapeake; M. Glennan, Norfolk; Geo. B. Finch, Boydton; W. I. Jordan, South Boston; J. N. Brenaman, New Market; Grenville Gaines, Warrenton; Martin Williams, Bland C. H.; J. H. H. Figgatt, Fincastle; Mrs. Lucy P. Beale, Buchanan; Mrs. F. J. Leigh, Norfolk.

National Board Lady Managers: Mrs. John S. Wise, Richmond; Mrs. K. S. G. Paul, Harrisonburg. Alternates: Misses Mattie P. Harris, Staunton; Mrs. M. H. Harrison, Westover.


A very unique structure has been erected for Virginia, at a cost of $25,000. It covers an area of 175x185 feet, and lies near the lake and opposite the Mary-
land Building. The structure is an exact representation of the Mount Vernon mansion in Fairfax county, Virginia, near Washington city, the building in which George Washington lived and died. It got into his hands from his brother, Lawrence Washington, and was built in the early part of the last century by his father. The main building is 94x32 feet, two stories and an attic and a two-story portico, with large columns extending along the whole front, being 94 feet long, 13 feet high and 14 feet wide. The portico extends up to the cornice of the roof, has an ornamental railing around the top and is furnished with settees along the whole length next the wall. There are two colonnades running back from each wing of the building to the rear about 20 feet long, 9½ feet wide and 11 feet high, connected each with a one-and-a-half story structure, 40x20 feet. These are called the dependencies. Altogether there are twenty-five rooms in the structure. On the first and second floors of the main building there are eleven rooms, in the attic six, and in each of the dependencies four rooms. The largest rooms in the house are the banquet hall, 31x23 feet, and the library 16x19 feet, the main entrance hall, Washington's chamber, in which he died, upon the second floor, and Mrs. Washington's chamber in the attic, to which she removed after her husband's death and which she occupied during the remainder of her life on account of its being the only room in the house which looked out upon his tomb. The apartments average upon the first floor 17x17 feet, upon the second 17x13 feet. The height of the first story is 10 feet 9 inches; of the second, 7 feet 11 inches; of the attic, 6 feet 9 inches. The distance from the ground to the top of the cupola is 50 feet. In the main hall is a large stairway four feet wide, ascending by platforms to the floors above. On the first platform of the stairway there is an old Washington family clock, a very interesting historical relic. This hall is furnished with antique sofas and pictures of the last century. The rooms upon the first floor are ornamented by heavy carved and molded wood trimmings and handsome mantles, very antique. This Virginia Building is not only an exact representation in every particular of the old Mount Vernon structure, but everything within it is also of the same character. Nothing modern is seen in the building, except the people and the library of books by exclusively Virginia authors. As far as could be done the building was furnished with articles which were collected from all over the state, the heirlooms of old Virginia families, and with portraits of the same character. Whatever may be lacking in furnishing the building with articles of this character is supplied with furniture made after the same old fashion. The building is presided over by the Lady Assistant of the Virginia Board, Mrs. Lucy Preston Beale, a daughter of Hon. Ballard Preston and a grand-daughter to General Preston, a former Governor of Virginia. She has for the attendants in the building old Virginia negroes, and undertakes to represent in every particular an old Virginia home of the Colonial period. There is a very rare collection of relics of Colonial times and of the Revolutionary War, and everything which is antique, among which is exhibited a copy of the original will of George Washington. The library is furnished entirely with books written by Virginians or relating to Virginia, quite a large collection of which has been made, and ornamented with old Virginia portraits, views and other relics of the Colonial period and the last century. Altogether the building with its furnishings is unequaled in its character and appointments and nothing like it will be found elsewhere except at Mount Vernon itself.

WASHINGTON.

Following are the members of the Washington State Board of Commissioners: N. G. Blalock, President, Walla Walla; S. B. Conover, Vice-President, Port Townsend; F. C. Kauffman, Secretary, Tacoma; G. V. Calhoun, Executive Commissioner, La Conner; P. W. Rochester, Assistant Executive Commissioner, Seattle; L. R. Grimes, Ellensburg; W. L. La Follette, Pullman; T. H. Cavanaugh, Olympia; C. H. Ballard, Conconully.

Washington Board of Lady Managers: Mrs. Alice Houghton, President, Spokane; Mrs. C. W. Griggs, Secretary, Tacoma; Mrs. M. D. Owings, Olympia; Mrs. Josephine Ettinger, Palouse City.
National Board Lady Managers: Mrs. M. D. Owings, Olympia; Mrs. Alice Houghton, Spokane. Alternates: Mrs. C. W. Griggs, Tacoma; Mrs. J. H. Stimson, Colfax.


The Washington State Building embraces a main hall, space 118x72 feet, to which are connected two wings, 118x40 feet, and cost $100,000. The main entrance on the east, and from each corner of the main structure square towers rise up, inclosing staircases to galleries. These galleries are 52x15 feet, overlooking the main hall. The east entrance of the building is under a great stone arch, which is the only stonework about the structure. This arch is built of alternate blocks of gray tintino, blue chuckanut, and white Pittsburg stone. Foundations of the buildings are of great fir logs, laid five deep. Two base logs at the north and south ends are each 127 feet long, and after having been slabbéd off very deeply are still eight feet in diameter at the butt ends. The heavier of these weighs 36,000 pounds and occupied four flat cars in transit. In squaring three sides enough lumber was cut away to build a good-sized cottage, while in the log itself is material for a big house. These logs have all been squared on three sides, presenting a rounded surface to the outside. These are left in their natural state. The largest of these sections was cut from trees 600 feet in height, which had not a branch less than 150 feet from the earth. This foundation constitutes a timber exhibit from Washington. The two wings form a single room each, and are devoted to State exhibits. Nearly all of the first floor of the main building is devoted to a reception room, while in the second story are committee rooms, parlors, reception and toilet rooms. The roof is of shingles, and the interior is finished in cedar and fir. All of the material used in the building comes from Washington, the lumber coming from Puget Sound, while the main entrance, an important decorative feature, is of granite, marble, and ore from quarries within the State. The sky-reaching flag-staff, 208 feet in height, was first 236 feet in length. It is of native timber, and weighs 32 tons. To her sister States Washington has donated about 40 flag-poles, ranging from 100 to 125 feet in length, placed in front of their respective headquarters. At first view the Washington Building, with its quaint towers, reminds one of a Holland residence and windmill. It is unlike any other structure on the grounds, and sure to invite favorable attention. The commissioners have spent $100,000 in collecting a State exhibit.

WEST VIRGINIA.

Following are the members of the West Virginia State Board of Commissioners: W. N. Chancellor, President, Parkersburg; M. C. McKay, Secretary, Parkersburg; George M. Bowers, Treasurer, Martinsburg; R. S. Carr, Charleston; John S. Naylor, Wheeling; Sidney Haymond, Quiet Dell.

National Board Lady Managers: Mrs. W. Newton Linch, Martinsburg; Miss Lily Irene Jackson, Parkersburg. Alternates: Mrs. G. W. Z. Black, Halltown; Miss Annie M. Mahan, Fayetteville.


The West Virginia Building is in the Colonial style, two stories high, with a pitched roof, the outer walls being weatherboarded and painted, and cost $20,000. It is representative of the West Virginia residence. The roof is shingled. The interior is finished in hard wood the walls are plastered, and the ceilings are of ornamental iron work from Wheeling. All of the exposed material in the building is the product of the State. The main entrance is on the west, on a platform porch. Above the entrance is the coat of arms of the State in bas-relief. Within the entrance is a vestibule, with rooms for the boards of commissioners on either side. Beyond the vestibule is a large reception hall flanked by parlors for women and men. Back of these parlors are toilet and retiring rooms. On the second floor front are two committee rooms, and the balance of the floor constitutes an assembly room and reception hall 34x76 feet in size. There are four large fireplaces in the building, two on each floor, with very handsome carved wood mantels. The building has a ground area of 58x123 feet.
WISCONSIN.

Following are the members of the Wisconsin State Board of Commissioners: A. Ledyard Smith, President, Appleton; Hugh H. Price, Vice-President, Black River Falls; Chas. W. Graves, Secretary, Viroqua; John H. Savage, Treasurer, Shullsburg; Robert B. Kirkland, Executive Commissioner, Jefferson; Phillip Allen, Jr., Mineral Point; Mrs. John Winans, Janesville; Harry B. Sanderson, Milwaukee; Mrs. Geo. C. Ginty, Chippewa Falls; Mrs. William Pitt Lynde, Milwaukee; John M. Coburn, West Salem; William Kahr, Manitowoc.

National Board Lady Managers: Mrs. Flora B. Ginty, Chippewa Falls; Mrs. William P. Lynde, Milwaukee. Alternates: Mrs. S. S. Fifield, Ashland; Mrs. J. M. Smith, Mineral Point.


In architecture, this building represents the Wisconsin home, being designed in no special style. All the visible material comes from Wisconsin. The exterior is of Ashland brown stone, Menomonee pressed brick, and hard woods from various sections of the State. The roof is covered with dimension shingles. The window glass is plate. It is practically three stories high, but apparently only two, one story being in the roof. Its ground area is 80x90 feet, exclusive of the verandas on the east and west, which are 18 feet wide. The semicircular verandas on the north and south are entered only from the interior of the building. The second and third stories have verandas on the east and west. The main entrance faces the east and is 18 feet wide. The interior is finished entirely in oiled hard wood. The first floor is tiled and the ceiling is paneled in hard wood. On this floor are three fire-places, with mantels in oak and maple. The first floor has a large reception room, men's and women's parlors and toilet rooms, an intelligence office and a postoffice. The second floor has a historical room, and offices for the commissioners. On the west side of the floor is a large stained glass window, presented by the city of West Superior. This beautiful piece of workmanship is much admired by all. On this floor are two very elegant mantels in pressed brick. The third floor contains eight large bedrooms. Taken altogether, this structure is one of the most tasty and convenient on the grounds. The building cost $30,000.

WYOMING.

Following are the members of the Wyoming State Board of Commissioners: John S. Harper, President, Sundance; Elwood Mead, Secretary, Cheyenne; John McCormick, Treasurer, Sheridan; Frank O. Williams, Saratoga; L. D. Ricketts, Cheyenne.

National Commission: Thomas E. Harrison, Evanston; Mrs. Francis E. Hall, Cheyenne. Alternates: Mrs. Elizabeth A. Stone, Evanston; Miss Gertrude M. Huntington, Saratoga.


The Wyoming Building is in style a modern club house. The dimensions are 70 feet in length, by 60 feet in width. It is located in the extreme north end of the grounds, commanding an interesting view across the park-like portions of the grounds reserved for State buildings. It is also convenient to the steamboat landing. The interior arrangement consists of a main hall 24x40 feet, with two offices on the first floor, which are used for the reception and entertainment of visitors, while the collective exhibit is placed in the main hall. From here a circular stairway ascends to the second story, where the toilet rooms are located. The gallery around the hall and doors leads out upon the balconies on each of the four sides. The building is in the French chateau style, and the panels of the main frieze exterior contain elaborately wrought hunting and pastoral scenes. The people of Wyoming realize that the Exposition offers an unusual opportunity to make known to the world the varied material resources of their State; her coal lands, wells of oil, soda deposits and rich mines of iron and precious metals. The exhibit is arranged with the object of showing forth the advantages of the State, both to home-seekers of limited means and capitalists seeking fields of investment. To this end the classification includes Wyoming's best specimens of wheat, corn, oats, barley, rye, buckwheat, native and cultivated grasses and forage plants. Irrigation methods are illustrated with maps and
diagrams. The live stock exhibit includes the best specimens of blooded horses and cattle, and illustrations of methods of handling range horses, cattle and sheep. The committee on horticulture and floriculture have made their departments as complete as possible, representing all perishable articles by fac-similes in wax or plaster. Specimens of the present and extinct animal life of the State petrefactions, Indian implements, dress, and ornaments have been carefully collected by the committee on scenic exhibits, and form a most interesting feature of the State's contribution. The committee also endeavors by means of paintings, photographs and models, to illustrate other striking features of Wyoming and its leading industries.

ALASKA.

National Board Lady Managers: Mrs. A. K. Delaney, Juneau; Mrs. Isabella J. Austin, Sitka. Alternates: Miss Maxwell Stevenson, Juneau; Mrs. Lena Vanderber, Sitka.

National Commission: Edward de Groff, Sitka; Louis L. Williams, Juneau. Alternates: Carl Spuhm, Killisnoo; N. A. Fuller, Juneau.

This Territory has no Territorial Commissioners; and while it has no building, exhibits are made in the United States Government Building under the auspices of the Interior Department.

ARIZONA, NEW MEXICO AND OKLAHOMA.

[These territories have a building jointly, described below:]

Following are the members of the Arizona State Board of Commissioners: S. P. Behan, President, Prescott; Will C. Barnes, Vice-President, Holbrook; R. C. Brown, Treasurer, Tucson; W. K. Mead, Tombstone, George F. Coates, Phoenix; Miss Lorette Lovell, Tuscon; Mrs. T. J. Butler, Prescott.

National Board Lady Managers: Mrs. Thomas J. Butler, Prescott; Miss Laura Lovell, Tucson. Alternates: Mrs. George Hoxworth, Flagstaff; Mrs. H. J. Peto, Tombstone.


Following are the members of the New Mexico Territorial Board of Commissioners: W. T. Thornton, President, Santa Fé; Miguel Salazar, Vice-President, Las Vegas; W. H. H. Llewellyn, Secretary, Las Cruces; E. V. Chavez, Treasurer, Socorro; Alice B. Montgomery, Assistant Secretary, Eddy; E. B. Mills, Superintendent of Exhibits, Las Vegas.

National Board Lady Managers: Mrs. Cora L. Bartlett, Santa Fé; Mrs. Franc L. Albright, Albuquerque. Alternates: Mrs. Louisa D. Campbell, Eddy; Miss Lucia Paria, Albuquerque.


Following are the members of the Oklahoma Territorial Board of Commissioners: Gov. A. J. Seay, President, Guthrie; Mort. Bixler, Vice-President, Norman; H. C. St. Clair, Treasurer, Kingfisher; Miss Mattie B. Kelso, Secretary, El Reno; A. C. Scott, Executive Commissioner, Oklahoma City; Lyman Cone, Superintendent of Exhibits, Guthrie; C. A. Holit, Beaver City; Miss May I. Overstreet, Beaver City; Mrs. Mort. Bixler, Norman; Mrs. H. C. St. Clair, Kingfisher; E. L. Ballock, Guthrie; Mrs. C. M. Barnes, Guthrie; W. D. Holloman, Oklahoma City; Mrs. A. M. Halloman, Oklahoma City; J. E. Sater, Stillwater; Mrs. J. E. Sater, Stillwater; Rev. J. H. Buchanan, Chandler; Mrs. J. H. Buchanan, Chandler; Dr. Chas. W. Kirk, Tecumseh; Mrs. Chas. W. Kirk, Tecumseh; A. L. Goddard, El Reno.

National Board Lady Managers: Mrs. M. P. H. Beeson, Reno City; Mrs. Genevieve Guthrie, Oklahoma City. Alternates: Mrs. Julia Wallace, Oklahoma City; Mrs. Mary S. McNeal, Guthrie.

National Commission: Othneil Beeson, Reno City; Frank R. Gammon, Guthrie. Alternates: John Wallace, Oklahoma City; Joseph W. McNeal, Guthrie.

The joint building of the Territories of Arizona, New Mexico and Oklahoma occupies an advantageous location among the other State and Territorial buildings in the north end of the grounds. It is two stories in height, 28 feet over all, and has a frontage of 90 feet. It is ornamental in design and of a composite character, the lower story being supported by Doric columns. The main building is divided into three departments, one floor for each Territory, each department having a grand reception room in the center, flanked on each side by parlors. The offices of the commissioners are grouped around the main reception rooms, dividing them from the parlors on each side. It is a frame building, finished in acme cement plaster, and is used for various exhibits as well as for the general headquarters.
Following are the members of the Utah Territorial Board of Commissioners: R. C. Chambers, President, Salt Lake City; Richard Mackintosh, Vice-President, Salt Lake City; E. A. McDaniel, Secretary, Ogden; Heber M. Wells, Treasurer, Salt Lake City; N. A. Empy, Executive Commissioner, Salt Lake City.

Territorial Board Lady Managers: Mrs. F. S. Richards, President, Salt Lake City; Mrs. F. D. Richards, Vice-President, Ogden; Mrs. Electa Bullock, Provo; Mrs. C. W. Lyman, Salt Lake City; Mrs. G. W. Thatcher, Logan; Miss May Preston, Secretary, Salt Lake City.

Salt Lake County World's Fair Association: Executive Board: Mrs. E. B. Wells, President; Mrs. G. Y. Wallace, 1st Vice-President; Mrs. Priscilla Jennings, 2d Vice-President; Mrs. Margaret A. Caine, Secretary; Miss Emma McCormick, Assistant-Secretary; Mrs. Bertha Bamberger, Treasurer; Mrs. C. E. Allen, Mrs. Ann D. Groesbeck, Mrs. Sarah Boggs, Mrs. Kate Smith, Mrs. Amelia F. Young.

National Board of Lady Managers: Mrs. M. B. Salisbury, Salt Lake City; Mrs. T. A. Whalen, Ogden. Alternates: Miss Maggie Keogh, Salt Lake City; Mrs. Susan B. Emery, Park City.

National Commission: P. H. Lannan, Salt Lake City; Fred J. Kiesel, Ogden. Alternates: Charles Crane, Kanosh; Wm. M. Ferry, Park City.

The Utah Building is frame covered with staff. It is two stories high, and has an area of 46x82 feet. In style the facade is modern Renaissance. The foundation, columns, pilasters, cornice and other ornamental parts are made in imitation of the different kinds of stone in Utah. The walls are lined off in imitation of adobes. On the first floor is an exhibit hall, 41x45 feet, open to the roof and covered with a skylight. In the rear of this hall is a circular bay, and in this is the main stairway.

This building has chaste and simple outlines, and is an ornament to the grounds, standing as it does among the other state edifices, and lending its handsome exterior to the group. It is a worthy illustration of the taste of the people of that territory, and will attract the visitor by its novelty.

Its interior is planned with a special view to the comfort of those who make it their headquarters. The two stories are laid out in nearly the same fashion, comprising on the first floor several rooms for the use of the commissioners. A reception room is placed here, as also the secretary's office, and women's parlor. The second floor is similar in arrangement to the first, there being an exhibition room, 41x45 feet, and various office rooms. The building cost $15,000.
COMMISSIONERS FROM FOREIGN COUNTRIES.

3. Asterer Verbrüysse, Belgium.
4. H. E. Imperial Chamberlain P. de Goulkovskoy, Russia.
5. Ibrahim Hary Bey, Turkey.
6. H. E. Marshal Jose Simeao de Oliveria, Brazil.
7. H. E. Senor don Enrique Dupuy de Lome, Spain.
10. Chr. Ravn, Norway.
COMMISSIONERS FROM FOREIGN COUNTRIES.

1. Prof. Vulks I. Shopoff, Bulgaria.
2. L. Weiner, Cape Colony.
4. Dr. Francisco Bustamante, Venezuela.
5. E. Spencer Pratt, Persia.
10. T. Paredes, Columbia.
12. Dr. Emil Hassler, Paraguay.
13. J. S. Larke, Canada.
15. Signor V. Zeggio, Italy.
FOREIGN PARTICIPATION.

The foreign countries which are officially participating in the Exposition are as follows. The total amount of their appropriations is over $6,000,000:

*Argentina, Chile, Columbia, Costa Rica,*
*Denmark, Ecuador, France, Germany, Great Britain, British Guiana, Canada, Cape Colony, Ceylon, India, Jamaica, New South Wales, Trinidad, Greece, Guatemala, Hayti, Honduras, Italy, Japan, Johore, Korea, Liberia, Mexico, Monaco, Netherlands, Curacao, Norway, Orange Free State, Paraguay, Persia, Portugal, Russia, San Domingo, Spain, Cuba, Philippine Islands, Switzerland, Sweden, Turkey, Uruguay, and Venezuela.*

Besides the above a large number of exhibits representative of foreign countries are made by companies and individuals in the several great departments and on the Midway Plaisance. China, for instance, has no official exhibit, but Chinese exhibits abound. On the Plaisance are Javanese, Egyptian, Moorish, Dutch, Japanese, Malay, Austrian, German, Irish, Dahomian, Algerian, Tunisian and Arabian pavilions, booths, villages, streets and settlements, etc.

ARGENTINE REPUBLIC.

Mr. Carlos R. Gallardo, President National Commission, Commissioner General; Lieut. Juan S. Attwell, Commissioner, Secretary National Commission; Mr. H. D. Hoskold, Commissioner; Mr. Gustavo Niederlein, Commissioner; Mr. Enrique M. Nelson, Commissioner; Mr. Carlos Olivera, Commissioner.

The collective exhibit of the government of the Argentine Republic contains an instructive assortment of the products of that country, including wines, skins, ores, woods, dyestuffs, etc. In manufactures a very good and creditable display is made, showing the progress of the country in this line, especially in later years, when, mostly owing of the high premium on gold prevailing, the establishment of new industries has been greater than ever.

The Argentine Republic being an agricultural country par excellence, its exhibits in the Agriculture Building do not fail to attract attention. At the Paris Exposition this section of Argentine exhibits won much admiration, but the fine collection shown here far surpasses it.

Not less interesting is the display in the Mines and Mining Building, where a collection of over five thousand different specimens of minerals are shown, from the different provinces of the Republic.

Equally attractive is the excellent collection of hard and fine woods shown in the Forestry Building.

In Viticulture and Pomology Argentine wines, alcohols, dry fruits, etc., constitute the principal products exhibited.

Boats found by the Spaniards upon their first discovery of the River Plata; railroad material and saddlery, are the main features of the Argentine exhibits in the Transportation Building.

Exhibits belonging to the Department of Ethnology, and the Woman’s department, are made in those buildings, respectively.

Space has been granted to the Argentine Republic in the following buildings: Manufactures, 6,000 square feet; Agriculture, 5,310 square feet; Mines and
Mining, 2,758 square feet; Forestry, 1,510 square feet; Shoes and Leather, 1,595 square feet; Viticulture and Pomology, 1,122 square feet; Transportation, 1,206 square feet; Ethnology, 1,240 square feet; Woman's Building, 184 square feet; Liberal Arts, 1,000 square feet.

In the Fine Arts Building 600 square feet of wall space is devoted to pictures by Argentine artists.

Altogether the Argentine exhibits commend themselves to the observer, and serve to make the country better known in the United States, which has been the aim of the government and commission of the Argentine Republic.

AUSTRIA.

Hon. Anton von Palitschek-Palmforst, LL. D., Imperial Royal Commissioner General; Mr. Alexander Popovics, Assistant Imperial Royal Commissioner; Gaston Bodart, LL. D., Assistant Imperial Royal Commissioner; Mr. Emil Bressler, Architect, Imperial Royal Commission; Mr. Hans Temple, Delegate for Fine Arts; Mr. Victor Pillwax, Treasurer; Mr. Josef Grünewald, Official Commercial Representative; Mr. Emil S. Fischer, Superintendent; Mr. Raphael Kuhe, Official Commercial Representative; Mr. Robert B. Jentzsch, Superintendent of Old Vienna.

Austria displays a comprehensive and extensive illustration of the growth and development of its industry, education and science. This exhibit of Austrian industry and art has been prepared with the greatest energy, and it will be found to well fill its place to testify to the industry and intelligence of its people, and the occasion will undoubtedly result in the further increase of those agreeable relations which exist between Austria and the United States.

In the Department of Manufactures Austria has the space just north of the German exhibit. Each of three entrances is guarded by tall pillars surmounted by Austrian eagles. The pavilions are all mounted with the Austrian crown in gold. Soaps and perfumes, paper and paper-pulp, artists' materials, portieres, screens, furniture, terra cotta, porcelain, majolica and faience articles, mosaics, bronze goods, fancy glassware, amber and meerschaum work, gold and silverware, jewelry, goods of shell and horn, silks and velvets, cotton, linen and damask goods, woolens, gloves, hats, buttons, combs, leather goods, rubber goods, tin plate goods, steam cooking apparatus, steel goods, pearl goods, bathing appliances, closets, billiard cues, glass bricks for building purposes, wood carvings, watches, watch works, pipes, stoves and ranges, etc., are to be found in this department.

In the Department of Electricity are shown electrical apparatus, supplies, lamps, clocks, control apparatus, etc.

In the Department of Liberal Arts exhibits are made of medical, surgical and pharmaceutical appliances, school apparatus, statistical and geographical maps and illustrations, photographs, instruments of precision, letter boxes, musical instruments, etc.

Agricultural products, appliances for the cultivation of bees, hops, mineral waters, insecticides, malts, liqueurs, publications on seed raising, wax and waxen goods, oils, etc., are to be seen in the Department of Agriculture.

In the Department of Forestry woodstuffs, seed collections, rushes and last-goods are shown.

The invitation issued to the monarchy by the government of the United States to take part officially in the World's Columbian Exposition was most willingly accepted by Austria, while Hungary declined official participation, being now chiefly interested in her Millennial Exposition to be held in the year 1896 at Buda-Pesth. The Austrian government devoted a sum of 275,000 florins for this enterprise. The space allotted to Austria in the different buildings amounts to about 89,700 square feet, of which about 53,000 are in the Manufactures and Liberal Arts Building.

BELGIUM.

Mr. Astere Vercrevisse, Senator, President of Commission; Mr. Alfred Simonis, Senator, Commissioner General; H. E. Alfred Le Ghait, E. E. and M. P. of Belgium; Honorable Lambert Tree, Honorary Counselor; Mr. Paul Hagemans, Consul General, Honorary Member;
WORLD'S COLUMBIAN EXPOSITION.

Mr. Charles Henrotin, Consul, Honorary Member; M. Edouard Guerette, Delegate of the Commissioner General; M. Raymond Vaxelaire, Secretary of the Commission; M. Raymond Le Ghait, Secretary of the Commission; Mr. Andre Simonis, Secretary of the Commission.

As regards size, the most important feature of the Belgian exhibit is found in the Manufactures Building. The space allotted Belgium has a frontage of one hundred and forty feet on Columbian avenue, and the pavilion covers four thousand five hundred square feet of space. The façade of the pavilion is the same height as that of France, its neighbor, and the structure comprises a grand central arch and two smaller arches at each side. All carpentry work for the pavilion was done in Belgium. Among the many interesting things to be seen are a magnificent collection of bronze art works and mammoth crystal glass plates from Charleroi. Belgium also shows a fine exhibit of faience, furniture with fine carvings, etc. in this department.

More than two hundred Belgian artists have contributed to the exhibits in the Art Palace. All works of art in the collection were passed upon by an expert jury at Brussels, and only the most creditable productions were sent to Chicago. Hubert Vos, the art commissioner from the Netherlands, superintended the installation of the collection, which contains besides many valuable paintings several pieces of statuary executed by Belgium's most famous sculptors. Bronze art works form a notable part of the display.

In the Department of Agriculture exhibits are made of cakes and pastry, chocolate and confectionery, raw sugar, chicory, chocolate, cocoa, tobacco and cigars, mineral waters, canned goods, liquors, gin, beer, bottle stoppers, hair, etc.

Wines, wine labels, champagne and furniture for conservatories and verandas are shown in the Department of Horticulture.

Belting shafting, water filters, forges, motors, fire engines and extinguishers, bobbins, spindles, cards for worsted working machinery, confectioners' machinery, grinding and engraving machines, mills, etc. are exhibited in the Department of Machinery.

In the Department of Transportation Belgium shows rails, brakes, wheels and axles, car-couplers, bolts and nuts, ship rigging, cordage, etc.

Plans and designs of school houses, hospitals, homes for the working class, sheet iron building, heating and ventilating apparatus, books, photographs, musical instruments, etc. are shown in the Department of Liberal Arts.

BRAZIL.

H. E. Marshal José Simeão de Oliveira, President, National Commission; Dr. Ladislau Netto, Vice-President National Commission; Mr. Adolpho Aschoff, Secretary of the National Commission; Mr. H. J. de Paiva Coutinho, Commissioner; Baron of Marajo, Commissioner; Comodore Innocencio de Lemos Bastos, Commissioner; Capt. Lieut. José Martins de Toledo, Commissioner; Dr. Julio César Brandao, Commissioner; Mr. Graciano A. de Azumbuja, Commissioner; Lieut.-Col. F. M. Souza Aguiar, Commissioner; Prof. Rodolpopho Bernardelli, Commissioner of Fine Arts; Mr. M. Aguiar Moreira, Commissioner; Mr. Zozimo Barroso, Commissioner; Mr. Antonio Guimaraes, Commissioner; Lieut. Joao Baptista da Mota, Commissioner; Capt. Lieut. Joao Cordeiro da Graca, Commissioner; Lieut. Antonio de Barros Barreto, Commissioner; Lieut. Alexandre Leal, Aide to President of Commission; Mr. Theobaldo de Souza Queiroz, Aide to Commission; Mr. F. F. Napoleao, Aide to Commission; Mr. H. Barjona de Miranda, Aide to Commission; Mr. Luiz Michele, Aide to Commission.

The Brazilian Building is one of the handsomest and most attractive among the structures erected by foreign governments. It is ornamented in staff and painted white. The structure is in the form of a Greek cross, and in architecture is a pure class of French renaissance. It occupies an area of 150 feet square; is located on the peninsula just off the lagoon in the north end of the grounds and lies between the Fine Arts and Fisheries buildings. The height from the ground to the roof is 60 feet; height in the clear 150 feet. The structure is two stories, surmounted by a dome 40 feet in diameter and 40 feet above the roof. There are four campaniles which are used as points of observation. The roof is also used as a promenade, upon which beautiful specimens of the flora of the Republic of Brazil are tastefully arranged and from which a fine view of the grounds and lake is obtained. The interior is a vast arena, the walls and ceilings of
which are highly ornamented in sculpture and ornaments emblematic of historical events pertaining to Brazil. There are no exhibits in the building. The offices of the commissioners are on the first floor.

Brazil's exhibit is made in the various departmental buildings, principally in Agriculture, Forestry, Fine Arts, Machinery, Mines and Viticulture, and it consists of specimens of all the products of the soil, coffee, spices and woods from all the Brazilian States, about 150 paintings and a large number of marble statues. One statue, by Dr. Julio Brandao, is a life-size figure of Christ in white marble. A solid piece of rubber, ten feet in diameter and about twelve feet long, is shown. There is also a fine collection of coins, specimens of gold, silver and copper ores, together with various kinds of precious stones.

What the commissioners take special pride in, though, is the coffee exhibit. Coffee is served to the people free of charge. This portion of the exhibit is under the special patronage of the Centro da Lavoura e do Commercio of Rio de Janeiro, an association of coffee merchants which has presented Brazil's claims as the banner coffee-producing nation at sixty expositions. In the consignment of Brazilian exhibits received through the custom house there were 2,220 bags of coffee, enough in the display to give every visitor to the Exposition a taste of the luscious beverage as it is brewed in the new republic. Choice wines, diamonds, and other minerals, native woods and barks, paintings and statuary, various kinds of modern machinery, and other products are shown to the value of nearly a half million dollars. The Brazilian government appropriated about $600,000 for Exposition purposes, and the display made is creditable in every respect.

BRITISH GUIANA.

Mr. J. J. Quelch, Commissioner.

Stuffed jaguars, pumas, alligators and wildcats crouching among the natural products in one corner of Agricultural Hall are part of an exhibit made by British Guiana for the purpose of informing strangers how wonderfully versatile in production is the British colony in South America. The exhibit stands in the northwest corner of the hall, and forms one of the wildest but most picturesque scenes in the Agricultural Building. Huge, square cut logs, from trees that shot upward 250 feet in the air of British Guiana, form pillars of the exhibit. Greenheart and mora—the hardwoods used in shipbuilding—the koorahura, the wallaba, used for making rum casks, and the beautiful crabwood, seen so often in furniture, are the most valuable exhibits. They are exhibited in the rough and after passing through the hands of the workmen. British Guiana is proud of her trees, and maintains that her woods are still full of them. Besides these specimens of buttress wood, which has no heart and looks like the shived hand of a giant, are exhibited as stands for flower-pots. British Guiana also shows her skill in making curacoa, bitters and rum. Her preserved fruits are a specialty. In 1884, 250 ounces of gold were found in her gold mines. Last year the miners obtained 130,000 ounces, and some of this is on exhibition. The prettiest part of the exhibit lies in the cases where some beautiful feather fans are shown.

BULGARIA.

Prof. Vulko I. Shopoff, Delegate.

Bulgaria does not make an extensive exhibit. It consists principally of the ottar of roses, valued at $100,000, and is installed in the Department of Agriculture.

CANADA.

Mr. J. S. Larke, Executive Commissioner; Mr. A. R. C. Selwyn, C. M. G., LL. D., etc., Director Geological Survey; Mr. Wilbert David Dimock, Secretary; Mr. L. Woolverton, Superintendent (Horticulture); Mr. J. A. J. Joulet, Superintendent (Agricultural Machinery); Mr. James
BUILDING OF BRAZIL.

BUILDING OF CANADA.
Clarke, Superintendent (Machinery); Mr. W. Morton, Superintendent (Liberal Arts); Mr. C. F. Cox, Superintendent (Fish and Fisheries); Mr. J. H. Tracey, Private Secretary; Mr. Chas. de Cazes, Assistant Indian Commissioner; Mr. S. F. May, D. C. L., Director for Ontario (Liberal Arts); Mr. Henry Wade, Private Secretary; Hon. A. C. P. R. Landry, Commissioner for Quebec; Rev. P. N. Bruchesi, Canon, Advisory Commissioner for Quebec; Hon. L. Beaubien, Advisory Commissioner for Quebec; Hon. J. G. Joly de Lothiniere, Advisory Commissioner for Quebec; Mr. S. C. Sterenson, Advisory Commissioner for Quebec; Mr. Wm. McIntosh, Superintendent for Quebec (Mines); Hon. W. D. Perley, Commissioner for Northwest Territories; Mr. Alex. McKay, Advisory Commissioner for Nova Scotia; Mr. R. W. Starr, Advisory Commissioner for Nova Scotia; Mr. Charles F. Law, Commissioner, Province of British Columbia; Mr. N. Awrey, M. P. P., Commissioner for Ontario; Mr. D. Ewart, Assistant Architect, Canadian Department Public Works.

The Canadian Pavilion stands upon a site of nearly 6,000 square feet of ground on the lake shore but a short distance from the United States Battle ship, opposite Victoria House. The view from the “look-out” on the tower of the pavilion is perfect. It extends on one side to where the restless waters of the great lake seem to kiss the distant horizon; and on the other side takes in the magnificent pier, the architecturally beautiful Peristyle and Music Hall, with glimpses of the historic Convent of La Rabida, the great Manufactures Building, the United States Government Building, the Fisheries Building, and many of the fine and expensive edifices erected by foreign nations. The pavilion has three entrances: a main or front entrance, facing the southeast, and two end entrances on the east and west, respectively. The front entrance is through the tower, and has three doorways. Opposite this main entrance is the grand stairway, beneath and in the rear of which are numerous lavatories. In the entrance hall are located the post office, the telephone office and an intelligence office. In the latter are kept registers giving all possible information to visiting Canadians as to lodgings, board, the whereabouts of friends in Chicago, and other information that may be useful to Canadian visitors. Off the entrance hall is the reception room. Over five hundred Canadian newspapers are on file here. To the left of the main entrance are two handsome offices for the Dominion Commission, while the other four offices on this floor are occupied by the commissioners from the provinces of Ontario and Quebec.

On the first floor are two more offices for the Dominion Commission, four for commissioners from different provinces of Canada, a committee room and a large parlor for the use of the whole staff.

On the second floor are the tower room and the smoking room, and in the attic above is the dormitory for the guardian of the pavilion.

As the sum appropriated for the erection of the pavilion was limited, a plain style of architecture had to be adopted. Running around all sides of the building is a veranda ten feet wide, with a balcony above of the same width. The balcony is supported by twenty-eight Tuscan columns. The walls at the eaves of the roof are finished with a bold dental cornice. The pavilion is covered with a low pitched roof, partly hidden by a wall. The tower, as it issues through the roof is circular, and is divided into twelve panels; beneath these are detached pilasters. The walls are finished with a dental cornice, over which is an open balustrade. Over this is the “lookout,” whence rises the flag pole, from which, from sunset to sunrise, proudly floats the Canadian flag.

The walls and ceilings are finished with native Canadian woods, highly polished and showing the natural grain. Each province of Canada has furnished the native woods required to finish its individual rooms.

Around the pavilion is a neat plot of ground covered with green turf, dotted here and there with native Canadian shrubbery and conveniently and artistically divided with serpentine roadways and walks. This building, with its furnishings and surroundings cost over $30,000.

Various commercial, agricultural, scientific and educational articles are shown in the several departments from the provincial governments of Ontario, Quebec, Ottawa, British Columbia, Manitoba, Halifax, New Brunswick, Prince Edward Island, Northwest Territories.
CAPE COLONY.

Mr. L. Wiener, M. L. A., Commissioner; Mr. M. Berliner, Assistant Commissioner; Mr. S. Berliner, Secretary to Commission; Mr. J. W. Cundhill, Superintendent Diamond Court.

The Cape Colony of South Africa is making a fine display of its products in the Agricultural Building, where it has an allotment of 2,000 square feet, which is surrounded by handsome arches and glass screens in white stucco and gold. In this court is shown a display of ostrich feathers; merino wool; angora hair; a trophy of wines in the shape of a huge bottle; African woods and ivory; maps of the country; stuffed domestic animals, consisting of fat tail sheep; ostriches full grown and chicks six weeks old, all in full plumage; paintings of the celebrated Cape Flora; trophies of Kaffir ornaments; rare wild animal rugs; horns; basket utensils; silver leaves; cape immortelles; pyramids of ostrich eggshells; raw skins; buchu leaves; peas; beans; and cereals, including Kaffir corn, etc.

In the Mines Building the mineral wealth of the Cape Colony is exhibited. The Cape court in that building, which is between Brazil and Mexico, is encased entirely in plate glass, set in pilasters and cornices of ebonized wood highly gilt. The court is divided into compartments, one of which is a machinery hall, where the public can see behind plate glass the process of winning precious diamonds from the virgin diamondiferous soil brought from the mines at Kimberley. The process of sieving and pulsating the blue diamond ground is highly interesting. The machinery is served by three powerful Zulus who came from South Africa to do that work. After the pebbles are washed free from the soil, the same are removed from the last sieve and spread in the sorting room on a table where the person in charge picks out the diamonds that each washing produces.

Adjoining the sorting room are clearing, cutting and polishing works. Here skilled workmen, behind plate glass, show the public the manipulation of turning the rough diamond into a dazzling brilliant. Next to the work room is a private exhibit of diamonds of great value, consisting of rare and choice specimens collected and selected since 1870, when the diamond mines in Cape Colony were first discovered. At the opposite end of the pavilion, in a handsomely fitted room, the Cape shows blue and white asbestos garnets, found in the diamond soil; pyramids of lumps of diamond ground; rich copper ore; crocidolite, raw and manufactured; coals; salt, and two hundred and forty-three specimens of the mineral wealth of Africa south of the Zambesi. Between diamond machinery hall and the mineral room is a reception room, where files of South African papers and books of reference are kept for visitors.

In the Woman’s Building the Cape exhibits in two large glass cabinets the handiwork of the Colonial and native women. This exhibit was carefully selected from a collection made throughout Cape Colony. Mrs. Wiener, the wife of the chief commissioner for Cape Colony, has charge of these cabinets.

In the Transportation Building the model of the graving dock of Cape Town is shown; also plans of the harbors of Table Bay, East London and Algoa Bay.

In the Horticultural Building the Colony shows the rare plant known as Wilwitchia.

Adjoining the ore yard near the Mines Building the 150 tons of virgin diamondiferous ground in blue lumps is exhibited. The care of this valuable product is in charge of three native Zulus, who live in the enclosure in a Kaffir hut erected by themselves.

CEYLON.

Hon. J. J. Grinlinton, M. L. C., Special Commissioner; Mr. W. W. Pole Fletcher, Assistant Commissioner; Capt. Arthur Hansard, Local Assistant Commissioner.

The Ceylon exhibits are numerous and consist of works of art, manufactures, the products of the Island, jewelry and curios, with a most interesting exhibit presented by the late Sultan of the Maldives to the Ceylon government. Space was allotted Ceylon as follows: Agricultural Building, —— square feet; Manufactures Building, 1,350 square feet; Woman’s Building, 540 square feet. In the
Ceylon Building, designated as the “Principal Court” there is a space of 18,706 square feet for exhibits. The large court stands to the north of the German Building, fronting the lake. It is 162 feet in length. The pillars and such parts of the ends of the beams as are in view, and the four entrance doors, as also the central octagon, are beautifully carved in imitation of the carving found on the stone pillars and objects of art in the ancient city of Anurādhapura and other places of great antiquity. This court is a fine exhibit in itself. The minor courts are also made of the woods of the island, beautifully carved, and acknowledged by all who have seen them to be works of art. The main building of the court comprises a central octagonal hall with two wings facing respectively north and south. The court partakes largely of the Dravidian style of architecture in the design of its columns and adopted by the Singhalese in their ancient temples throughout Ceylon. The details of this mixed architecture may be studied with advantage in the numerous temples and ruins scattered over Ceylon, of which views are shown in photographs exhibited in the court. The court is constructed entirely of the beautiful native woods of the island. Some twenty thousand cubic feet of timber were felled for the purpose. The whole court is raised on a projecting basement some four feet above ground level, and is reached by four stairways highly carved, two leading into the central octagon and one into each of the wings. These flights of steps are adapted designs from the well-known stairs of many fine ruined temples to be seen at Anurādhapura and Polonnāruwa, the successive ancient capitals of Ceylon between 543 B. C. and 1235 A. D. The cobra-shrouded figures carved in bas-relief on the terminal stones, guarding either side of the approach, are termed *doratu-palayasa*, or janitors. These guard-stones are always found at the foot of steps to vihārēs (shrines), etc., in the older ruins, to ward off evil. The small conventional lines on attached pillars at the side of the terminals are formed equally with elephants and bulls on these guardstones at Anurādhapura and elsewhere. The figures on the face of and supporting the steps, the front edges of which have a small conventional pattern of the water-leaf ornaments, or *padma*, carved upon them, have been supposed to represent *yakkas*, a class of evil spirits, also placed here to avert ill. At the bottom of the steps is a large carved slab, semi-circular in form, termed a *sandakada-pahana*, or moonstone, carved in bas-relief, to represent a lotus flower open in the center, and concentric bands of sacred geese, foliage, and figures of lions, elephants, horses and bulls in the outer ring. The carved balustrade on either side represents a *maṇḍara*, a fabulous beast, half lion, half crocodile. Arriving at the top of the stairs, the entrance to the building is through a handsome doorway having carved jambs of similar pattern to those of the Dalada Mâlīgâwa (the temple in which the sacred tooth of Buddha is deposited) at Kandy, and at the Ambulugala and Dippitiya vihārēs in the Four Kôralēs of the Kâgalla District of Ceylon. The continuous scroll ornament, should be particularly noticed, also the intersecting double-foliaged scroll. The fancy design of leaf ornament spreading downward from the trunk of a woman’s body, is here particularly handsome, and follows the line of the arch. The ceiling of the central hall is supported by twenty-four elaborately carved pillars, which are in two stages; the lower story supporting cross beams terminating in a carved bracket. Between the cross beams, and forming a capital to each pillar, are carved cross-bracket capitals termed *pushpa-bandha*; they are carved to represent conventional drooping lotuses. The upper tier of these pillars, with their attached bracket-capitals, are carved in the form of a plantain flower, and the ornamentation on the face of the pillars is that of the *padama*, lotus ornament.

On either side of the central hall are colossal, figures of a sedent Buddha and Vishnu. The hands of the seated Buddha, are as usual, placed in the lap, the back of the right hand resting on the left palm, and the crossed feet showing the sacred marks on the soles.

The figure of Vishnu, usually ranked as the second of the Hindu triad, is
represented four-armed, the back pair of hands holding his discus and chank, with his vehicle, the winged *garuda* behind, and standing on a pedestal. The "lotus-god" is, as usual, painted blue.

The whole building is enclosed with an ornamental façade, there being eight windows to each annex and four of double width to the central hall. The windows have architraves carved with the water-leaf superficial ornamentation, and under each window is a panel containing conventional and other designs in bas-relief. The upper part of the window is formed of an ornamental arch, carved with the same pattern as the architrave. The carved architrave terminates with a shoulder enriched with the creeper-knot ornament.

The whole exterior of the building is framed with satinwood, ornamented with Kandyan scroll-work, and the roofs, which have large projecting eaves, are terminated at the eaves-line with valance tiles of a pattern found in frequent use in Kandyan buildings. All the roofs, which are covered with imitation pan-tiles, are framed with a break of line a little more than half way up the slope, which is especially characteristic of Kandyan architecture. The roofs over the central hall and tea room rise in three tiers, and the whole is surmounted by a *kota*, or spire, terminating in a hammered brass finial exactly similar to the one surmounting the Temple of the Sacred Tooth of Buddha at Kandy. All the ends of projecting beams, or *gones*, are highly carved, and the terminations of the rafters are cut in the manner and form peculiar to the architecture of the building.

Of the panels under the windows, that under the third window from the southeast corner is a representation of the *ira-handa*, the sun-and-moon symbol of the Four Kóralés, with the lion holding two daggers.

The exhibits are ranged round the hall and annexes in handsome cases made of satinwood and ebony, the lower panels having the form of the *torana*, or Singhalese arch. Other exhibits are disposed round the walls and pillars of the building.

Close to the court and immediately to the northwest is a building in the form of a dagaba, set apart for the use of the Ceylon court staff. It is an exact representation of the Ruwanveli dagaba at Anurádhapura, as taken from a model carved in stone which stands within the *pradakshina*, or "procession path." Ruwanveli dagaba was commenced by King Dutugamunu in the year 161 B.C., and completed 137 B.C. It is constructed of solid brickwork, rising to a height of 150 feet, with a diameter at the base of 379 feet. The original outline of the dagaba was destroyed by the Malabars in 1214 A.D.

The minor court in the Manufactures Building is of similar design as regards pillars, paintings, etc., to the main building, as are also those in the Agricultural and Woman's buildings.

The Ladies Committee for Ceylon consists of Lady Havelock, President Lady Burnside, Lady Grenier, Lady de Soya, Mrs. Copleston, Mrs. Allanson Bailey, Mrs. Dawson, Mrs. Grinlinton, Mrs. Mitchell. Some excellent exhibits in lace, the work of natives of the island, and some works of art, all being the work of women's hands, were collected by the committee, and form an interesting feature in Ceylon's miniature court in the Woman's Building.

Indian corn, sugar, coffee, tea, cocoa, cardamons and cinnamon, essential oils, flax, fibres, rope, farming utensils, horns and teeth, tusks, woods, etc., are exhibited in the Department of Agriculture.

In the Department of Fisheries can be seen fishing tackle, boats, fish products, mussel shells, aquatic birds, pearl fishery and appliances, pearl oysters, etc. Machines for cleaning skins, jewelers' and silversmiths' tools, tile and brickmakers' tools, gem polishers, etc., are exhibited in the Department of Machinery.

In the Department of Transportation Exhibits can be seen bullock carts, models and appliances of war ships, rowing and fishing boats, etc.

Medicinal drugs, vanilla, native ink, furniture, mounted elephants' tusks, pottery, bronze and brass goods, ivory articles, jewelry, Kandyan cloth, artificial flowers, hides and skins, cutlery, etc., are on exhibition in the Department of Manufactures.
In the Department of Liberal Arts exhibits are made of books, photographs and musical instruments.

**CHILI.**

S. M. Harris, representative from the English Nitrate Company.

A complete display of nitrate from Chili is made in the Department of Mines and Mining. The action of nitrates as a fertilizer is also shown in the departments of Agriculture and Horticulture.

**COLOMBIA.**

Mr. T. Paredes, Special Commissioner for Antioquia; Mr. H. R. Lemly, Commissioner General; Mr. E. E. Britton, Commissioner for Antioquia; Mr. Miguel Montoya, Commissioner for Boyaca; Mr. Juan M. Davila, Commissioner for Magdalena.

The building erected for the Republic of Colombia has a frontage of 56 feet and a height of 60 feet. In the center a dome rises in conic form, crowned at the top with a large condor, which is the symbol of the country. On each side of the building there is a hothouse, which is 12x24 feet, communicating with the central part. The building has two floors. A large staircase leads up from the rear side of the center to the second floor, which forms a gallery all around the building. The style of architecture is essentially French. The two corners in front corresponding with the dome are crowned by two groups of children supporting a globe from which two flagstaffs project. The dome is in glass.

This is a handsome and graceful building on account of the quantity of such details and the correctness of its lines. In the interior there are a number of showcases and shelves, upon which the wealth of the country and its most remarkable objects are exhibited. There is also a reception room with handsome furniture. The building is finished in wood, staff, iron and zinc, and cost $20,000.

**COSTA RICA.**

H. E. Sr. D. Manuel M. de Peralta, E. E. and M. P., President of Commission; Señor Dr. Don David J. Guzman, Vice President, Commissioner General; Señor D. Joaquin Barnardo Calvo, Charge d'Affairs, ad interim, Secretary Commissioner; Señor Don Anastasio Alfaro, Vice Secretary and Commissioner, Archaeological Department; Dr. Francisco J. Rucavado, Commissioner-Treasurer; Señor Dr. D. Felipe Gallegos, Commissioner; Señor D. Guillermo Gerard, Commissioner.

The Costa Rica Building is situated at the east end of the north pond facing west, and the location is one of the best in the confines of the grounds. Across the north pond, and within a distance to be fully appreciated, are the Illinois, Washington, Indiana, Ohio and Wisconsin Buildings. To the right are the Galleries of Fine Arts, and on the left stand, Guatemala and Spain, while as a background and not far distant, Lake Michigan murmurs praise to the efforts of mortal man. The building is Doric in style; is 103 feet long by 60 feet wide, two stories and clearstory, making the full height 50 feet. On each side is a Doric portico 22 feet wide, supported by four large pilasters. Three easy steps lead up to the main floor, and opposite this front entrance broad double stairways lead to the second, or gallery floor, supported by eighteen columns rising to the full height of the clearstory. The cornices, frieze moulding, caps and bases, window casements, etc., are made of iron. The main walls are cemented, and all is painted in effective colors. The inside walls are plastered, and the walls and timber work are frescoed in a modest and becoming manner. The building is lighted by twenty large double casement windows in the first story, and ten large skylights in the roof of the clearstory, while on all sides of the latter the windows are pivoted so that when opened they will afford perfect ventilation. Ample toilet rooms have been provided on each floor. Over each main entrance to the building is placed the National shield of the Central American republic in bold relief, making a striking addition to the decorative part of the work. The building cost $20,000.

**CUBA.**

Don Rosendo Fernandez, Delegate of the Chamber of Commerce of Havana.

The Cuban exhibit is made collectively in the Department of Agriculture
in a pavilion connected with that of Spain and the Philippine Islands. It consists principally of sugar, tobaccos, spices and dye stuffs.

CURACAO.

Mr. Milton O. Higgins, Commissioner.

Under this general head the islands of Curacao, Aruba, Bonaire and little Curacao, a part of the Dutch West Indies, make a collective exhibit in the Agricultural Building. The principal articles exhibited are salt, phosphates, Curacao orange peel and the liquor, shells, sponges and other marine growths, models of fishing boats and native dwelling-houses, native furniture, pottery and tools, baskets and Panama straw work, leather, wax goods, aloes, snuff, licorice, grains and agricultural products, preserved fruits and jellies, gums, musical instruments, woods and gold quartz, native jewelry, gold, silver and copper, women's needle work and embroidery, and shells, sea weed and feather work. Antiquities of the ancient Caribs, including a burial urn with the skeleton found therein, are of interest.

These islands are small in area and situated in the Caribbean sea off the North coast of Venezuela. They have been owned in succession by the Spanish, English, and Dutch, who now hold them. They have a resident governor, the Hon. J. H. R. Beaujon, and are in the line of the weekly steamer from New York and Caracas, Venezuela. The climate is agreeable though dry, but owing to the industry of the Dutch planters, crops of sugar, indigo, cocoa and other tropical products are raised.

There are quite extensive beds of phosphate on the islands of Amba and Curacao, but they are not worked as extensively now as in former years.

The local committee was organized in response to the invitation from the President of the United States to foreign countries to participate, and consists of the influential citizens of the islands; the president of the committee being the Hon. J. H. R. Beaujon, governor of the islands; Edward J. VanLier is secretary of the committee.

Upon request of the Board of Lady Managers at Chicago, a committee was organized to make an exhibit of women's work, consisting of the following ladies: Mesdames Van Romondt Knoch, wife of the commandant of the forts, and Gaerste-Green, and Misses M. E. Bruinier, J. Boomgaart, Rea. Cohen, Henriquer, E. Ley Ca and Mina Schotbergh.

An interesting exhibit is a model of the Island of St. Thomas, Danish West Indies. It is about eight feet by four, built to a scale of six inches to the mile, painted in natural colors, showing the roads, country houses, ships and steamers in the harbor and the pretty town of Charlotte Amalia, with its two old legendary towers of Blackbeard and Bluebeard. It is set into a table enameled in black, edged with gold, with terra cotta paintings of various spots of interest on the island, the whole being covered with plate glass.

DENMARK.

Mr. C. Michelsen, President of Commission; Mr. Emil Meyer, Commissioner General; Mr. Oscar Matthiesen, Commissioner of Fine Arts; Mr. Otto A. Dreier, Secretary of Commission; Mr. Carl Cortsen, Chief of Installation; Mr. K. Arne Peterson, Architect; Mr. Christian Nielsen, Decorator; Mr. V. Christesen, Delegate; Mr. Bernhard Hertz, Delegate; Mr. H. A. Kahler, Delegate; Mr. Carl Rohl-Smith, Delegate for Fine Arts; Dr. Charles E. Taylor, F. R. G. S., Special Delegate from Danish West Indies.

The Danish exhibits are principally in the Manufactures and Agricultural buildings and in the Art Palace and the Woman's Building. The main exhibit in the Manufactures Building is the finest that has ever been made by Denmark. The pavilion which fronts on the main aisle of the building, represents on its façade the coat of arms of the city of Copenhagen. On the sides of the pavilion paintings by Danish artists of local and colonial scenery are hung, and in the interior the decorations are magnificent and unique. Among the interesting points of the interior is an exact reproduction of a room in the house of Hans Andersen.
In the Woman's Building are shown a number of exhibits from the Danish women. The Queen sent a painting, a floral piece of roses and lilies; the Crown Princess, old embroideries and handkerchiefs; the Princess Marie of Denmark, three large aquarelle; the Countess Rohan-Ledtzten, national costumes of Aneager and Filer; the Baroness Reedl-Thosa, old linen embroidery and antique carved wooden appliances for laundry work; the Countess Moltke Bregentide, linen embroideries by Hedebo peasants; C. Stanshohen, yellow silk embroideries on blue velvet. The list comprises many similar articles, loaned by distinguished people.

Iceland sagas, bearing on the early discoveries of the Norsemen and the stories of their trips to Vinland and North America, have been lent by the Danish government to the United States for exhibition at the Exposition. These sagas are entitled Codex Fluteyensis. It required a great deal of red tape to secure these valuable manuscripts. Before permitting them to leave Copenhagen the Danish government stipulated that in case of the total loss $20,000 must be paid for them and all expenses incident to their exhibition. They are to be returned by a United States man-of-war.

In the Department of Agriculture are dairy appliances, butter in tins, condensed milk, machine and hand churns, beer, liquors, axle-grease, etc.

Denmark makes a very creditable display in the Department of Machinery. Here are shown coffee-mills, machines for shoe re-soleing, lithographing, apparatus for preventing machinery running hot, etc.

In the Department of Liberal Arts are exhibited books, illustrations, maps, designs for home and school work, photographs, pianos, etc.

ECUADOR.

Colonel M. N. Arizaga, Charge d'Affairs and Delegate General; Señor Don G. Perez, Secretary; Señor Don T. G. Sanchez, Commissioner; Mr. L. J. Millet, Commissioner; Mr. Oscar Jander, Assistant Commissioner.

The Republic of Ecuador has a collective exhibit in the Agricultural Building and shows its agricultural products such as cocoa, coffee, tobacco, cotton, sugar cane, anis seed, wheat, corn, rice, etc., and from its forests such as rubber, red-bark “quina,” vegetable ivory, and over five hundred kinds of woods valuable for furniture and constructive purposes; the Toguilla straw with which the inimitable straw hats, erroneously known as Panama hats, are made; cabuya or sisal hemp and other fibrous plants, gums, resinous barks, etc., of immense value to science and industry. Samples of the many minerals that enrich the Ecuadoran soil, side by side being the auriferous quartz of Zaruma, the silver of Pilzrun, and samples from the gold washing sands of Sigssig and Esmeraldas (Plays de oro, Angostura, etc.), as also samples of crude petroleum from the beds at Santa Elena; of sulphur from Alansie; of marble from Farqui, etc., are exhibited.

Native industry is shown by the straw hats of Manabi, refined sugars from Milagro and Galapagos; ropes, cords, etc., made in Ambato from the sisal plant; different kinds of spirits, beer and liquors from Quito, Guayaquil, and Cuenca; samples of weaving in silk; wool, cotton, cigars, cigarettes, machinery, tapestry, saddlery, tanning, boot-making, tailoring, iron founding, etc.

The arts occupy a preferable position in the pavilion and visitors will meet with the opportunity of seeing the paintings of Salas, Pinto, Manosalras, Cadena, Salguero and other famed Quito artists. In sculpture there are on view works by the famous Cuencano sculptors, Don Miguel Veliz and Benelazar, as well as those of many others in painting, sculpture, music, gold and silverware, etc.

Samples of the ladies' hand work consist of embroideries, open work in silk and linen, lace and crochet, paintings in oil and watercolors, drawing, hair work, and numerous fancy articles in vegetable ivory, metals, wax, feathers, and fibres.

There is another section devoted to curiosities in which are placed pieces of rare vestments, some used by the tame Indians of Ecuador, and others again of the untamed. Human heads reduced in size by an undiscoverable secret, arms and trophies of war, fossils, numistical collections, antiquities, etc. The dif-
different articles pertaining to the two tribes Quírus and Cânaris, and dating anterior to the Spanish Conquest, are placed in a separate casing thus forming an interesting attraction to scientific visitors. This archaeologic and ethnologic collection was very highly praised at the Madrid Exposition, and is composed in the greater part of ancient pottery of the time of Seyris and the Incas of idols, figures, musical instruments made of baked clay, as also a few of stone and bronze, as human figures, domestic utensils, workmen's tools and instruments of war.

Owing to the inconvenience of transportation such a great distance it has not been possible to form a complete exhibit of the flora and fauna of Ecuador, but among the few specimens forwarded there are, without doubt, some worthy of the study of those interested in these branches, especially so in the contribution by Sen. Don Augustin Cousin, member of the Institute of Science, Paris, who forwarded a considerable quantity of "moluscas."

Finally, men of letters will find in the pavilion works of the most distinguished Ecuadorian authors, writers, etc., such as the epic poems by Jose Joaquín Olmedo; the works in prose by Juan Montalvo; History of Ecuador by Don Pedro Ferrin Cerallos; Studies Archaeologic by Don Federico Gonzalez Suarez, the eminent divine, and the dictionary in Quechua and Spanish by the present President of Ecuador, Dr. Luis Cordero, who is as eminent in literature as in politics.

FRANCE.

M. Camille Krantz, Commissioner General; M. Edmond Bruwaert, Consul General, Deputy Commissioner General; M. Monthiers, Secretary General; M. Verstraete, Vice-Consul, Secretary; M. Heilmann, Treasurer; M. Mascart, Engineer, Chief of Installations; M. Max Duchanoy, Attaché; Baron René de Batz, Attaché; M. Lefeuve Meaulle, Attaché; M. Masure, Attaché; M. de la Touanne, Electrical Engineer; M. Vassilière, Special Commissioner for Agriculture; M. Roger-Martín, Assistant Special Commissioner for Agriculture; M. Mesnier, Assistant Special Commissioner for Agriculture; M. Monteils, Special Commissioner of Algeria; M. Schérer, Secretary for Colonies; M. Roger Ballu, Principal Commissioner for Fine Arts; M. Giudicelli, Assistant Commissioner for Fine Arts; M. Motte, Architect, Decorator; M. Dubuisson, Architect; M. Sandier, Architect; M. Yvon, Architect; M. T. de Balincourt, Lieut. French Navy, Commanding Sailors' Detachment; M. Maurice de Viomorn, Horticulture; M. Georges Lamaille, Bronzes, Crystals; M. D. Astric, Secretary for Fine Arts; M. H. L. Guerin, Secretary of the Fine Arts Committee; M. J. Perrin, Special Delegate of Manufacture Nationale de Sevres; M. Pierre Masson, Attaché to Commissioner General; M. A. Paradis, Attaché to Fine Arts Commission; M. T. Bilbaut, Special Commissioner for Colonies; Marquis de Chasseloup Laubat, Special Commissioner for the World's Congress Auxiliary.

In March, 1892, a special French commission was appointed under the direction of the Secretary of State for Commerce-Industry to examine the propositions made for a credit of 2,000,000 francs for sending exhibits of French firms to the Exposition, but the sum was deemed inadequate and 4,000,000 francs was granted. The credit once voted the greatest activity prevailed in France. M. Camille Krantz, the member in Parliament for the Department of Vosges, was appointed commissioner-general. With him were also appointed M. Edmond Bruwaert, French consul-general in Chicago, as deputy commissioner, and M. Monthier as general secretary. To induce the French people to send exhibits thirty-nine official committees were organized by the government, each one of them having its own office and its own task; namely, to obtain adhesions in a given line of industry and group these adhesions together. Meanwhile space had been asked for and obtained in every one of the departmental buildings at Jackson Park. These spaces were divided and part of each allotted to every committee, the committee having the task of decorating the space or section thus allotted and of dividing it among the different exhibitors according to their importance. So great was the number of French firms anxious to exhibit that supplementary spaces had to be asked for; but this request could be only partially granted.

The French Pavilion lies near the shore of Lake Michigan, and directly east of an annex of the Fine Arts Building. The outside wall is decorated with paint-
BUILDING OF COSTA RICA.

BUILDING OF FRANCE.
ings, showing various views of Paris and government buildings there. The entire pavilion has a frontage of 200 feet, and a depth of more than 100 feet. It cost $100,000. This building has quite an historical interest, for it is a reproduction, on a small scale, of the Apollo Hall of the castle of Versailles. It was in this hall that King Louis XVI officially received Benjamin Franklin, Silas Deane and Arthur Lee, delegates from the thirteen original States, who were met by A. Conrad, secretary of the Council of State of France. A colonnade of graceful design in three sections, like three sides of a rectangle, connects this section of the French building with another composed of two large rooms and a vestibule. All the exhibits found in this hall, tapestries, furniture and curios, belong to the War of Independence. One can see, among others, the bureau from the library of Lafayette. Among the most important relics figures the sword of honor presented to Lafayette in 1779 by the congress. There are also two finger rings containing locks of hair from the heads of Washington and his wife, some busts of Washington and Franklin and a series of historical portraits. A semi-circular colonnade connects the pavilion, belonging itself, as far as the outside is concerned, to the Corinthian order, to another pavilion, where is found the collections sent by the city of Paris. There is, the world over, no other city administration that spends more money for the welfare of its citizens. Schools, infant asylums, hospitals, sewers, streets, boulevards, avenues, public gardens, bridges, all these different public services make special exhibits. Most interesting among others is the one sent by Dr. Bertillon to illustrate his system of detecting criminals, however numerous and clever may be their aliases. The decoration of the pavilion's north front is quite remarkable. Under the portico, views of the French capital adorn each bay, and the garden around the building has been designed by the chief gardener of the city of Paris.

In the Department of Fine Arts the works of the French masters are subdivided in three different classes. For once, all the different schools decided to appear in the same hall, and Gerome, Detaille, Maignan, Flameng, La Touche, Bonnat, among many others, send very creditable pictures, well worthy of their name and talent. France has sent to this country to superintend this exhibit M. Henri Giudicelli. He is familiar with the works of all the artists of France, and every day is on duty in the Fine Arts palace.

All the leading artists of France have taken the most intense pride in being represented at the Exposition. Their sentiments are increased by a very large degree of sympathy which French artists feel for American artists, so many American artists having their studios in France, and so many of them taking high rank and winning distinction in the exhibitions held at Paris. The pictures and other works were selected by a jury which was extremely careful in collecting works of art to be sent. Scarcely one-third of the works presented was accepted. The paintings number 500, the drawings, water colors and pastels 200, the engravings 150, and the subjects in sculpture 155. To this list is added 100 architectural panels and at least 500 figures of large size representing old historical monuments. Then there are a number of models, medallions and objects of art which the French government buys every year to enrich its museums.

The French display in the Department of Manufactures occupies a central position on the west side of the main aisle and represents the combined architecture of what might be called the Louis periods. The entrance is a semicircle of columns in the center of which are large double doors, with panels bearing painted allegorical figures. The entire pavilion is surrounded with a low railing. There are twenty-six arches in the pavilion and each represents the entrance to a drawing-room made in an especial way and occupied by the various exhibitors. The first is the republic-room and it is fitted up in red plush. In the center is a statue of France by Folguere. It represents the figure of a woman much after the style of the American Goddess of Liberty. In this room, displayed in showcases, are laces from the great factories and from the home workers. The walls are covered with paintings illustrating the industry and the
march of the nation. One of the most interesting exhibits is the Salle de Gobelins. This is called the throne room, only there is no throne in it. The friezes on the walls represent the great centers of trade with figures of Palissy, Limoges and Bebeau. At the back is a huge tapestry representing the God-child of fairies, one of the finest and best-known Gobelins in France. The furniture room is magnificent, and in it is displayed the most beautiful and costly furniture. There is one divan of Louis XIV style worth $5,000 and a set of drawing-room furniture of the same period worth five times as much. All this furniture is covered with the finest tapestry and is most delicate in design and coloring. A bride's trousseau is exhibited which is, perhaps, the most costly ever made. Some of the items and cost will illustrate: The silk underskirt is made of embroidered white silk trimmed with lace, and is valued at $2,300; several pieces of underwear worth $200; a single bed sheet, embroidered in silk, worth $1,000; a pillowcase worth $160, and a whole case of robes de nuit at $500 a piece. The entire outfit is worth $25,000. There is a cradle made of lace worth $3,000 and a fine display of all the wonderful art. Several prominent perfumers in France have combined in one room, which has been painted a delicate mile green. In the center is a fountain of perfume. It will be changed each day, and it will not only perfume the entire space but the public is at liberty to perfume their handkerchiefs in the spray free of all charge. A display represents an afternoon tea at which all of the latest gowns are fitted on wax figures. The silversmiths and jewelers have a most elaborate display. In the gallery are shown the famous silks from Lyons and St. Etienne, with a pair of portieres made expressly for this Exposition, on which are embroidered the arms of this country and France.

The French display in the Woman's Building shows the work of women, but the most striking feature is a large group of figures representing the different costumes worn by the people of France from the earliest days.

In the Department of Agriculture the French republic has a fine display of all its products, including those of its colonies. The colonies have erected a pavilion which is for their exclusive use, being intended to show the entire products of their countries. The display is made in the east entrance of the Agricultural Building. Seeds, standard samples of wheat, choice flowers, refined sugars, appear side by side, with canned goods, green peas, mushrooms, oils, plums, nuts, etc. Agricultural implements and illustrations of agricultural teaching are found in two other different sections. There are over seventy-five millions of people living in the many colonies France has in various countries such as Algeria, Tunis, Senegal, Madagascar and Indo-China, all under French rule. The exhibits from these colonies are partly in the Agricultural Building, partly outside. The Algerian products are located in an Arab pavilion, reproducing one of the most charming buildings of Algiers. Outside the Agricultural Building, on the shore of the south lagoon, is the Tunisian pavilion, surrounded by soucks and the Annamit pavilion where are gathered most of the exhibits sent by French colonies, among others New Caledonia's celebrated nickel ores, the king of Annam treasury, photographic views of St. Peter, Miguelon Islands. France is, above all, an agricultural country. Out of her thirty-eight millions of inhabitants on the continent alone fully more than twenty millions are raising food products, cereals, wheat, corn, sugar beets, flax, hemp, vegetables, olive trees, etc.

In Machinery Hall are exhibited steel and iron products from various sections of the republic, showing guns, shells, plates for ironclads, soap-making machinery, weaving looms, etc.

In the Electricity Building the French section lies in the northwest corner. It is divided in two parts, one containing national and the other private exhibits. In France the government has a monopoly concerning the use of telegraph and telephone and no private corporation can compete with it in this line. The national exhibit shows how the telegraphic service is organized in France and operators are seen at work. Self-acting apparatus automatically registering any change in the temperature, direction of the wind or atmospheric moisture, are also shown.
Coal, cement, asphalt, slates and metallic products are shown in the Department of Mines.

Railroad engines, steel tires, railroad supplies, carriages, landaus, dog carts, saddles, harness, models of ocean steamers, sedan chairs, etc., are shown in the Department of Transportation Exhibits.

Wine, the national beverage of France, is shown in the Department of Horticulture, where samples of many famous brands may be seen. Then there are cordials, Chartreuse, Benedictine and other liqueurs, mineral waters, etc. A splendid floral exhibit is also made.

Exhibits are also made in the Shoe and Leather Building and the Dairy and Forestry Departments.

In the Department of Liberal Arts the leading publishers of France are represented. The collection is particularly rich in ouvrages de luxe. Among these are, from the Pions, “Les Maîtres Florentins du XV Siècle,” containing thirty drawings by Count Delaborde and W. Haussoullier, after original paintings and sculptures in Thiers’ collection, a folio volume costing 300 francs; from Edouard Rouveyre, the first of two volumes devoted to the manuscripts of Leonardo da Vinci, with fac-similes or reproductions of the originals; a dozen notable works from the press of Thèzard, dealing with the subject of art as applied to decoration and house furnishing; another dozen of magnificent volumes bearing the imprint of the Hachettes and others. Besides, musical instruments, etc., are to be seen in various groups.

Altogether, France did her best to cheerfully answer the invitation extended to her to participate in the Columbian celebration, and one can be easily convinced of her good will by going over the different spaces she has been allotted in every department, and which have been occupied, not without a large laying out of money by the government as well as by the private exhibitors.

Not less than $10,000,000 worth of goods are displayed, and the total amount of space occupied is about 450,000 square feet.

GERMANY.

Honorable Adolf Wermuth, Imperial Commissioner; Mr. Franz Berg, Assistant Imperial Commissioner; Mr. Karl Hoffacker, Architect, Imperial Commission; Mr. Johannes Radke, Architect, Imperial Commission; Mr. Aug. Friedler, Architect, Imperial Commission; Mr. Hugo Schnars-Alquist, Delegate for Fine Arts; Mr. Carl Haller, Engineer, Imperial Commission; Mr. Gustav Spiess, Member for Commercial Affairs, Imperial Commission; Mr. George Franke, Secretary, Imperial Commission; Mr. Fritz Kuehnemann, Mechanical Engineer; Dr. Lobach, Electrical Engineer; Mr. Conrad Engel, Bergassessor.

COUNCIL OF DEPUTIES.

Mr. Julius Beissbarth, Nuremberg-Furth Industry; Mr. Doehn, Imperial Postal and Telegraph Exhibit; Mr. Ehnhard, Civil Engineer, Nuremberg-Furth Industry; Director Robert Erhardt, Metallurgical Exhibit; Professor Finkler, Imperial Educational Exhibit; Mr. Richard Fischer, Chemical Collective Exhibit; Mr. Paul Gesell, Royal Saxon Porcelain Exhibit; Mr. Fritz Gräber, Textile Collective Exhibit; Mr. Gisbert Gillhausen, Gun Exhibit; Mr. Hartmann, Royal Architect, Engineering Exhibit; Mr. Haueisen, Chemical Collective Exhibit; Mr. Richard Horstmann, Royal Prussian Porcelain and Jewelry Collective Exhibits; Professor Hoffmann, Textile Collective Exhibit; Mr. Franz Jaffé, Royal Architect, Imperial Educational Exhibit; Dr. Ulrich Jahn, Ethnological Exhibit, “German Village;” Dr. Kallen, Imperial Educational Exhibit; Conservator Kopf, Bavarian Industrial Art Exhibit; Mr. Lauter, Civil Engineer, Gun Exhibit; Mr. Meyer, Civil Engineer, Metallurgical Exhibit; President O. W. Meyenburg, Electrical Exhibit; Mr. Petri, Royal Architect, Royal Prussian Railway Exhibit; Mr. J. Scheurer, Civil Engineer, General Railroad Exhibit; Professor Spatz, Metallurgical Exhibit; Dr. Albert C. Weil, Bathing and Mineral Exhibit; Professor Dr. Wätzoldt, Imperial Educational Exhibit; Dr. Lichtenfels, Imperial Educational Exhibit; Prof. Goetz, Art Industrial School, Baden; Prof. Kips, Royal Prussian Porcelain Exhibit; Mr. Friedrich Dernburg, Representative German Press; Director Dernburg, Ethnological Exhibit, “German Village;” Mr. Seitz, Industrial Art Exhibit; Prof. Riedler, Engineering Exhibit; Mr. Hundeshagen, Civil Engineer, Machinery Exhibit; Mr. Guenthier, Civil Engineer, Machinery Exhibit; Mr. Eduard Schrickell, Iron Industry; Director Josef Gorg, Agricultural Exhibit; Professor Hans Virchow, Educational Exhibit; Dr. Kobianck, Educational Exhibit; Mr. Dahlen, Wine Exhibit; Mr. Hartmann, Electrical Exhibit; Mr. von Siemens, Electrical Exhibit.

The construction of the German Building has been with a view of making it not only an imposing structure, worthy of the great nation it represents, but at
the same time an essentially German house in its characteristics. Precedent and
the dignity of such a power demanded that its representatives in a foreign coun-
try be housed in a manner to do credit to the Fatherland. Realizing these facts
in Berlin much care was taken in constructing the "Deutsche Haus" in such a
way as to do credit to Teutonia. It is situated in the northeastern portion of the
grounds, facing the lake. It lies near the Swedish building, and immediately
east of the Illinois State Building. A fine view is afforded of the Hall of Fine
Arts to the northwest, and of the Fisheries, Manufactureres and United States
Government Buildings to the southwest. It is composed of Gothic, German
renaissance and the modern styles of German architecture. The main building
is 130x112 feet in breadth and depth, and is two stories high. To the longitudinal
section of the main entrance a chapel-shaped structure has been attached, thus
making the section 169 feet. Excellent architectural effect is produced by pro-
jections, which seem to be the natural outgrowth of the smooth walls, which,
together with the high gable roof, which ascends to a quadrangular turret, and bell
tower, 105 feet high, make a striking picture of architectural beauty. The dome of
the tower is in the Byzantine style. The outer walls are of a massive appearance
and are decorated with scenes in the style used in Muenchen and Nuremberg, repre-
senting masterworks of the German art of bronze founding. The entire main
front is of a light color, broken by reliefs similar to those on the Tucherhaus on
Friedrickstrasse in Berlin. The front shows the old German Imperial eagle from
the time of the Hohaustaufen bearing a shield with the eagle of Prussia. Under
the symbols of the new empire, the crown and sceptre, are grouped the coat of
arms of the various States of the German Union. The upper structure is vari-
colored to the steep roof, which is covered with glazed tiles. Above the main
entrance the visitor is welcomed by the following sentences: "Bountiful and
Powerful;" "Rich in Corn and Wine;" "Full of Strength and Energy;" "Mother
of the Sweetest Tunes and Home of the Greatest Thoughts;" "I Shall Sing Thy
Praise, O Fatherland Mine." To the left of an elaborately ornamented hall are
the reception room and offices of the Imperial Commissioners. This high double
hall is 42 feet high, the two divisions of which are separated by a colonnade 21
feet wide. The hall occupies, with the exception of the apartments referred to,
the whole body of the main building and forms a longitudinal quadrangle 108 feet
in breadth, covering a space of 7,569 square feet. This hall is occupied by the dis-
plays of the German book manufacturers, and the literature of the country is fully
represented. In the chapel-shaped annex, ecclesiastical art is displayed, show-
ing altars, organs, etc. From the bell-tower the chimes exhibited by the society
of Bochum peal forth their silvery strains. These chimes will be donated to
Grace Church in Berlin after the close of the Exposition.

This building and its contents form an attraction separate from the German
village, which occupies 17,500 square feet on the north or Fifty-ninth street side
of the Midway Plaisance where it is intersected by Kimbark ave. This village
came from Germany in a shipment of over 6,000 pieces, representing farm build-
ings, markets, shops, meeting hall and church, all in the style of the twelfth cen-
tury. It contains many interesting antiquities from the German museum at
Mayence.

Beside being the official abode of the Imperial Commission, accommoda-
tions have been provided in the German Imperial Building for delegates from the
German empire and as a resting place for the weary German sightseer, where an
opportunity is afforded him to meet his countrymen.

The plans of the German Building were designed by the Imperial architect,
but it owes its material existence in part to a number of patriotic manufacturers,
who, inspired by the glory of their country, contributed freely in materials and
money.

Germany has an exhibit worth 40,000,000 marks, or over $10,000,000. Space
was taken in nine different buildings, and outside of these are the Krupp display.

Occupying a prominent place in the Transportation Exhibits Building is a
museum of the progression in railway tracks, the only one in the world. An attempt is made in this display to enhance the value of the modern methods by comparison. Each railway engine and car stands beside a model of the first of its kind ever used in the country. Germany claims much for its railway postal facilities, and displays one of the new postal cars which were made on a model of the ones used by the Chicago, Milwaukee & St. Paul road, and beside it stands a portion of the first postal car ever used in the kingdom of Prussia—a cramped, rickety, antiquated vehicle, making the contrast startling. This display occupies one of the largest spaces in the building.

Close beside the American Bell telephone display the Germans have a large space in the Electrical Building. Many of the more modern appliances of electricity in Germany are American. It embraces the system of army signals recently introduced and the German system of electric lighting and telegraphy.

In Machinery Hall there is a most extensive showing. A firm of famous iron kings of Germany has two gigantic columns—one representing iron-pipe, the other wire and wrought iron. These are connected by a massive iron door, showing ornamental work in cast iron and they are flanked on either side by two obelisks, one of steel and one of iron, fifty feet high. This firm also shows some of the machinery it uses in working in iron.

Beer has the place of honor in the Agricultural Building. Extensive displays from the famous breweries of Lowent, Kaumach, the Hoffs, Munich, Bergerbraen and Frankelbraen are made in bottles and casks and a miniature brewery is run showing how they make beer in the Fatherland. Waters from Ems, Baden-Baden and Weisbaden attract those to whom beer has no charms, and extensive exhibits are made in the forestry and dairy displays. Outside of the building they have a space to show model farming, where considerable attention is given to the various systems of fertilizing in use.

Of all the foreign exhibits in the Department of Manufactures Germany’s is perhaps the largest. Their space is in the northwest center of the hall facing the big clock tower. The decorative structure which marks the corner of the German exhibit is done in the style of German renaissance. It forms the quarter of a circle with a square tower at either end, supported by four Ionic pillars and having a decorated plinth upholding golden eagles as the crowning features. An archway extends through these towers and on the two blank walls are carved and gilded medallions. At the base of each of these towers is a cleverly-modeled fountain representing a dolphin spouting water into a seashell basin upheld by a devilfish. Between the two fountains is another basin, which receives the overflow from these basins and the water from a third fountain, which is a part of this feature of the exhibit. Connecting the two towers is a curved archway with artistic medallions on either side, surmounted by a group fountain, of which Neptune, with his trident, is the central figure. On either side of this figure is a water horse with ears erect spouting water from pipes held in the mouth and each controlled by mermaids. Two wrought iron gates on either side of the towers lead into a richly-furnished room, which surrounds the tower and in which is shown a large collection of honorary presentations to Emperor William, Prince Bismarck, Count von Moltke, and the sovereigns of the German States. Just to the north of the corner piece and separating it from the gold and silver display, behind the great wrought iron fence, is a room beautifully decorated, in which is shown the exhibit of Bavarian industrial art. At the south entrance is the palace of King Ludwig. This is the most elaborate interior on the floor. Each room opens to the aisle, and all differ in design. One is gold, inlaid marble, and the center one a drawing-room with frescoes worth a small fortune. The inlaid marble work is remarkable, and represents fruits and flowers cut out of colored marble and put into the white. North of this are four rustic work pagodas which are used by the famous textile firms of Germany. One is occupied by an Axminster carpet firm of Belsnitz. In front of it hangs a piece of carpet which took six months to make, and which has one million tufts in it. They have fitted up two
rooms, one a lady's boudoir and the other a gentleman's lounging-room, both hung with rugs and draperies and furnished with beautiful furniture. Next to them is the exhibit of the Royal Saxon China manufactory at Meissen. This exhibit alone weighs sixty tons, and is worth $500,000. It includes some of the most delicate work of the famous pottery. Bohemia is noted for its glass to a greater extent than Newcastle is for coal, and the exhibit is bewildering. There is glassware of all descriptions, and some of it almost priceless. The exhibit is all in show cases; and is guarded night and day by two stalwart Bohemians. This is said to be the finest collection ever shipped to this country. The vases are all hand painted and burned, and have that deep-blue color which distinguishes the Saxon ware from all others. In this collection are also a large number of plates decorated after Chinese designs in blue and gold. One delicate little soup plate was invoiced at $60, and a platter, whose chief reason for existence is to decorate a mantle shelf and look pretty, is valued at $120. Under the gallery in the German space little rooms have been made between girders, and each is occupied by some firm with a particular line of goods. One of these is taken by the clock factory of the Black Forest, where no less than forty different varieties of cuckoo clocks are shown. With the exception of the weight and chains the clocks are made of wood, and it is the intention of the exhibitor to keep the forty cuckoos at work all of the time.

In this building is also an extensive display of jewelry and silverware, and prominent among the latter is some of the plate which has been presented by the different German states to Emperors William I and II, Von Moltke and Bismarck. Much of this was given as a souvenir of some particular battle and forms a sort of historical object lesson. Special attention was paid to a collection of vases and jardinières, ancient and modern, and a large space was allotted to the royal Prussian, Bavarian and Saxon porcelain makers. In this building, also, may be seen an extensive school exhibit arranged by the royal Prussian minister of education, which includes a model school building.

In addition to 2,660 square feet assigned to German plants inside the Horticultural Building 32,234 square feet have been given to that country outside for plants and flowers, as follows: 2,000 feet for standard roses, 6,000 for dwarf, 1,000 for carnations, 200 for begonias, 100 for canna, 20,000 for dahlias, 630 for chrysanthemums, 610 for asters, 20 for zinnias, 200 for summer flowers, 250 for clematis, 1,000 for herbaceous plants, 90 for tritonia uvaria, 90 for lily of the valley, and 50 for rochea falcata. In all the German Empire has been given space for 35,006 square feet for its floricultural exhibit.

Germany has sent a commission consisting of university professors to Chicago to represent the educational exhibit made by the Fatherland. The gentlemen forming the commission are Prof. Stephen Waetzold, commissioner general; Z Zaffe, government architect; Prof. Dr. Dittmar Finkler; Dr. H. Lichtenfeld and Dr. Kallen, district school inspectors.

A novel feature is introduced in Horticultural Hall. This a long model of the Rhine district, showing the winding of the river, the steep bluffs with the famous castles and vineyards. Models of the Rhine steamboats pass up and down the river. A reproduction of the celebrated monument erected in commemoration of the Franco-German War—Germania—is also shown.

Several thousand feet is utilized for the fish exhibit in the Fisheries Building.

The women of Germany entered into the spirit of the Exposition with a zeal that is rare, and so persistent were their demands for space that it was a difficult task to find it for them. The empress herself and nearly all of the feminine members of the royal family prepared articles shown here, and throughout the length and breadth of the united kingdom fair fingers industriously worked on patterns rich and rare. The list of the articles is long and includes pictures in oil, water and silk; all branches of the kindergarten, from the very inception; tapestries, old and new; its watch and clock works; fabrics of all kinds and descriptions, and its various systems of dispensing charity.
Germany sent some of her very richest treasures to the Art Building. In this department is shown progress in art by comparison of the modern with the earliest German efforts.

The list of Germany’s exhibitors contains 5,077 names. Represented in it are 230 cities and towns of the empire, and of these 40 cities send more than ten exhibits each. Berlin leads with 283 exhibitors; Munich follows with 187; Leipsic with 149; Frankfort, 55; Hamburg, 57, and Chemnitz, 41.

Emperor William showed his appreciation of the Exposition, and especially his respect for Director-General Davis, by authorizing Herr Wernmuth, his Imperial Commissioner, to present to Col. Davis an elegantly bound work bearing on the discovery of America. The German title is “Die Entdeckung Amerikas.” This work was issued by the Geographical Society of Berlin in commemoration of the 400th anniversary of the discovery of America. Toward the publication of the work Emperor William himself contributed a large amount of money.

GREAT BRITAIN.

Royal Commission.—The Council of the Society for the Encouragement of Arts, Manufactures and Commerce.

This Society (the Council of which has been appointed by Her Majesty a Royal Commission for the World’s Columbian Exposition) was founded in 1754, and incorporated by Royal Charter in 1847, for “The Encouragement of the Arts, Manufactures and Commerce of the country, by bestowing rewards for such productions, inventions or improvements as tend to the employment of the poor, to the increase of trade, and to the riches and honor of the kingdom; and for meritorious works in the various departments of the Fine Arts; for Discoveries, Inventions, and Improvements in Agriculture, Chemistry, Mechanics, Manufactures, and other useful Arts; for the application of such natural and artificial products, whether of Home, Colonial, or Foreign growth and manufacture, as may appear likely to afford fresh objects of industry, and to increase the trade of the realm by extending the sphere of British commerce; and generally to assist in the advancement, development and practical application of every department of science in connection with the Arts, Manufactures and Commerce of this country.” The history of the Society has been intimately associated with the promotion of Fine Art and Industrial Exhibitions. The first Exhibition of the works of native artists took place in the rooms of the Society in 1760, and out of the movement which originated this and some subsequent exhibitions grew the Royal Academy. In the following year, 1761, the machines which had obtained premiums from the Society were exhibited to the public, and this exhibition may be considered as the commencement of the long series of Industrial Exhibitions. To the action of the Society is due the first International Exhibition, that of 1851, which was successfully carried through under the patronage of H. R. H., the late Prince Consort, who was President of the Society. The Great Exhibition of 1852, was also originated by the Society. The first Exhibition of Photography, art of which the Society has given so great a place under the auspices of the Society of Arts, 1852. The Society has also forwarded the Cause of Education by great exhibitions, and the great questions of Sanitation and Water Supply have been discussed at Congresses convened by the Society.

H. R. H. The Prince of Wales, K. G., President of the Society of Arts.

Sir Richard Webster, Q. C., M. P., Vice-President and Chairman of the Council of the Society.

Sir Frederick Bramwell, Bart., D. C. L., F. R. S., Vice-President and Deputy-Chairman of the Council.


Sir Edward Birkbeck, Bart., Member of Royal Commission; Mr. James Dredge, Member
of Royal Commission; Mr. Walter H. Harris, Member of Royal Commission; Sir Henry True- 
man Wood, Secretary Royal Commission; Mr. E. H. Lloyd, Assistant Secretary and General 
Superintendent Royal Commission; Mr. Ralph A. Harbord, Private Secretary; Mr. J. W. Beck, 
Superintendent (Fine Arts); Mr. E. H. Fishbourne, M. A., LL. B., Superintendent (Manufactures); 
Mr. H. D. Wilkinson, M. I. E. E., Superintendent (Machinery, etc.); Mr. Thomas Baker, Superin- 
tendent (Transportation); Mr. H. W. Pearson, Superintendent (Agriculture).

Honorary Solicitors, Messrs. Wilson, Bristows and Carpmael, I; Copthall Buildings, E. C. 
Honorary Auditors, Messrs. J. O. Chadwick and Son, 95, Finsbury Pavement, E. C. 
Bankers, Messrs. Coutts & Co., Strand, W. C. 
Offices in Chicago, Victoria House, Jackson Park, Chicago.

Great Britain's building, which is officially known as "Victoria House," (so designated by special permission from Her Majesty, Queen Victoria) occupies a prominent position on the shore of the lake, near the pier. It is generally characteristic of the best type of English half-timber houses of the six- 
teenth century. The upper portion is of half-timber construction in natural oak, 
with overhanging and projecting gables and tiled roof. Terra-cotta is used ex- 
tensively in the lower story, with red brick facing and mullioned windows, so as to 
be seen from all points; each façade has been treated architecturally. The plan 
forms three sides of a quadrangle, with the open side next to the lake, inclosed 
by a raised terrace with balustrade. The center on the front or inland side is 
recessed, with steps leading from both sides up the covered portico, which opens 
into a large central hall. Off from one side of the hall are a library and reception- 
rooms, and from the other side the Secretary's office and other rooms 
required for the work of the commission. On the first floor are a large suite of 
rooms and offices. On the second floor are rooms for the meetings of juries, 
receptions, etc., for its own use and that of Colonial Commissions. The walls 
and ceilings of the principal rooms are elaborately panelled after the fashion of 
old English country houses, and the fittings and furnishings were specially designed for the house.

In the grand hall and staircase is a modeled plaster ceiling copied from one in Plas Mawr, Conway, North Wales, built about 1550, and generally known as "Queen Elizabeth's Place." Another plaster model, over the grand staircase and principal landing, is taken from one at Haddon Hall. Enriched plaster work is also seen in the paneling and chimney pieces. The furniture of carved oak is in the Italian style of the renaissance. A cassone is reproduced from an old Florentine example in the Royal Palace at Naples and it is enriched with a painted frontal panel on gilt ground, in allegorical portrayal of the departure of Columbus from Spain. The remainder of the settees, tables and chairs are designed on similar ancient lines, some of the carvings being copied from ex- 
amples that belonged to the Medici family, now in the Pitti Palace at Florence. In the reception room the modeled plaster ceiling is reproduced from that in the 
banqueting hall at Crewe Hall, the seat of Lord Crewe, and one of the finest 
examples of Elizabethan architecture in England. The library is entirely of oak. 
The ribbed ceiling is of geometrical form and the bookcases extend from floor to ceiling. The dining-room contains a modeled plaster ceiling reproduced from 
the famous one in Campden House, Kensington, and the carved oak paneling 
and furniture illustrate a simpler treatment of a modern dining-room of Eliza- 
bethan character. The embossed leather on the walls was first executed for the 
new ball room at Sandringham Hall for H. R. H. the Prince of Wales. The 
floors of the principal rooms are laid with hand-made real Axminster carpets. 
The whole house is tastefully ornamented with dog stoves and fireplace 
fitting, grates and over-mantels, floor mats, etc., and the walls are handsomely decorated 
with banners. In the vestibule are two terra cotta panels, "The Prodigal Son" 
and "Pharaoh at the Red Sea," while in the garden and grounds are a handsome 
fountain and a large group of America executed in terra-cotta.

The space occupied by Great Britain and the Colonies in the buildings and 
grounds amounts to more than 500,000 square feet, of which about three-fifths
is occupied by Great Britain. This is the largest area ever occupied by the British Section at any foreign international exhibition. At Vienna, 1874, the space occupied was 169,827 square feet; at Philadelphia, 1876, 194,381; at Paris, 1878, 363,018; at Paris, 1889, 232,845.

Allotments have been made in the following buildings: Agriculture, Forestry, Live Stock, Fisheries, Mines and Mining, Machinery, Transportation, Manufactures and Liberal Arts, Electricity, Fine Arts, and Women's Building.

The most important exhibits are in the Manufactures Building. The space in this department forms one of the blocks in the center of the building at the junction of the main avenues. The exhibits made by the Royal Commission include pottery, porcelain, glass, art furniture and decoration, textiles, etc. In the galleries above are placed the educational and photographic exhibits, and the loan collections from the government departments, school board, etc. Many of the most important English manufacturers are represented, and their exhibits are arranged along the central gangway of the building. Furniture, by some of the principal makers, is also shown in this department. In the division of textiles, the contributions of the Irish linen manufacturers are important. A fine show of jewelry, and of goldsmiths' and silversmiths' work, including a unique collection of reproductions of old Irish gold work, is placed in this building. Chemical products form a large and important class.

In the Department of Electricity the British exhibitions are not very numerous. The display includes a historical collection lent from the British Postoffice Telegraph apparatus, as well as contributions sent in by commercial firms. The large share English electricians have had in developing electrical science and its practical applications is shown. The first electrician was an Englishman, Gilbert. It was in England that a practical telegraph line was first worked out by Ronalns in 1816. There are no names more closely associated with the early development of the science of electricity than those of Davy and Faraday. The introduction of telegraphy must inseparably be connected with Cooke and Wheatstone; while the early history of the dynamo would be incomplete indeed without reference to Wilde and Holmes. In England, electricity was first applied to the working of railways, and there nearly all the submarine cables of the world are made.

In the Department of Mines and Mining a typical collection of economic British minerals has been made. This includes interesting series of specimens of barytes from Bantry, Ireland, and a similar series from County Leitrim. Specimens of barytes from Snaillbeach mine, Shropshire, and from Mawsden mine, Derbyshire. Clay used for the manufacture of fine white earthenware, technically known as "Blue Ball Clay," is shown, and it is interesting historically to note that this clay was used by Joseph Wedgewood in 1791. The North Devon Clay Company, of Torrington, Devon, sends a series of specimens of clay, and a photograph showing the open workings. The clay is cut by one man in a straight line, and then is cut across by a second; a third undercuts with an adze, clearing out the clay in 8-inch cubes. Specimens of copper pyrites, iron ore, red hematite ore, lead ore, tin ores, witherite, zinc-blende and calamine; also collections of coals, alum-stone and uranium from various mines in the United Kingdom are exhibited. At the close of the Exposition the entire mineral collection is to be presented to some American museum, yet to be determined upon.

A collection of photographs, illustrating the best work of amateur and professional photographers in the United Kingdom, has been arranged by the Royal Commission and is shown in the Department of Liberal Arts. Here is found a loan collection of photographs, to which contributions were made by most of the leading British photographers, professional and amateur. Engravings and fine art publications are shown by some of the principal fine art publishers. In this department may be seen an interesting collection of newspapers, educational appliances, scientific instruments, etc.
An important part of the British section is found in the Transportation Exhibits Building. The London and North Western railway show an engine and carriages. The Great Western railway exhibits a broad gauge engine. The Great Eastern, Midland and Irish railways also exhibit. There is a full collection of cycles contributed by nearly all the leading makers. A very large collection of ship models by the principal ship building and marine engineering firms, as well as by the most important steamship companies, is also shown in this department. In this building are also some interesting loans; a model of the Forth Bridge, a collection of pictures of carriages by the Institute of Coach Builders, etc.

The British machinery exhibits, while not very large, are fine. The Gallo-
ways of Manchester show a 400 HP. engine, and Willans & Robinson a 350 HP. engine, to drive the machinery. Perhaps the most important exhibit in this building is the cotton cleaning machinery, by one of the principal makers. There are also looms, spinning frames, steam hammers, and printing machinery.

The Agricultural section includes food. Here Great Britain is well repre-
sented. In spirituous and other liquors there are many exhibitors. Mr. Burdett-
Coutts, M. P., is showing a fine model of his stud farm.

In the Department of Fine Arts devoted to the British section are a num-
ber of handsome and valuable paintings, etc., loaned from their collections by Her Majesty the Queen, The Prince of Wales, The Duke of Edinburgh, The Duchess of Albany, Earl of Aberdeen, corporation of Birmingham, General Beadle, Archdeacon Farrar, Countess Cairnes, corporation of Brighton, The Earl of Eldon, Sir Willifred Lawson, the corporation of Oldham, Lord Monkswell, the corporation of Leeds, Sir John E. Millais, Sir Sydney Waterlow and hun-
dreds of others.

Early in the work of arranging for the Exposition the Royal Commission
appointed a committee of ladies, of which H. R. H. the Princess Christian is
president, to superintend the arrangements for the British section of women's
work.

This committee organized a series of sub-committees to deal with special
branches of women's work, as mentioned below, and the following ladies under-
took to supervise their several departments:

Education—Mrs. Fawcett.
Handicrafts—Lady Roberts.
Lace—Duchess of Abercorn.
Literature—Mrs. Gordon.
Needlework—Lady Henry Grosvenor, Lady Amherst.
Nursing—Mrs. Bedford-Fenwick.
Philanthropic Work—Baroness Burdett-Coutts.
Portrait Gallery, Music and Vestibule—Mrs. Roberts-Austen.
Ireland—Countess of Aberdeen.
Scotland—Countess of Aberdeen.
Wales—Lady Aberdare.

A very fine collection, representing the most important branches of women's
work in the United Kingdom, has been sent by the Ladies' committee. A
number of excellent and comprehensive papers on questions of special interest
to women have been promised for reading and discussion at the Congress to be
held during the Exposition.

Among the Colonies, Canada is the largest exhibitor, as might naturally be
expected. She is showing largely in the Agricultural and Mining Buildings, as
well as in the Manufactures. The Canadian Commission put up a special build-
ing in the grounds for their offices. New South Wales is the next largest. Her
principal exhibits are minerals, wool and timber. The Cape makes a good
exhibit, notably diamonds. Ceylon has a pavilion and a creditable exhibit in
several of the departments.

The Indian Government at first refused to take an active interest in the
exhibition, but eventually gave a sum of 40,000 rupees to the Tea Planters' Asso-
BUILDING OF HAYTI.

BUILDING OF GUATEMALA.
ciation to promote an exhibit of Indian tea, and also made a small grant to Indian art dealers of Delhi, to assist in making an exhibition of Indian art ware. Several firms exhibit Indian art productions.

In a general way all the arrangements of Great Britain were well advanced before the opening, and much credit is due to Sir Henry Trueman Wood, the secretary, and to Mr. Lloyd, his assistant, for the splendid ability shown in handling all important matters that have come before them.

Visitors from England and Canada have the opportunity of enjoying the comforts and privileges of a first-class club during their stay in Chicago. The British and Canadian Exchange Club has been incorporated and has commodious rooms on the second floor of the Auditorium. It is an Anglo-American club, a limited number of Americans being admitted to membership. The club's quarters in the Auditorium include gentlemen's reading, writing, reception and smoking rooms; ladies' drawing, reception and toilet rooms; postoffice and information bureaus, offices, etc. The reading room is well stocked with American, English and Canadian publications, and excellent facilities are afforded for social intercourse, reception and dispatch of mail, cashing of drafts, providing hotel and other accommodations, selection of routes of travel, and in short, nearly everything foreign visitors may desire. The club was opened March 1, and will be maintained until the end of the year.

**GREECE.**

Mr. Charles L. Hutchinson, President Royal Commission; Mr. D. Jannopoulos, Royal Commissioner.

The exhibit made by Greece consists largely of wines, liquors, figs and raisins. There are twenty-five contributions of the first, twenty of liquors and a dozen firms showing dried fruits. Greece has taken an unusual interest in the Columbian Exposition, and a large number of people from Athens and the leading cities will visit America this summer.

**GUATEMALA.**

Manuel Lemas, President of the Commission; Dr. Gustavo E. Guzman, Vice-President; Ignacio Solis, Secretary; Leon Rosenthal, Treasurer; Señor Don Geo. C. Monzon, Attaché.

The Guatemala Building is square, with 111 feet at each side, and occupies a total area of 12,500 feet. The architecture is original, but in no way classical. It is kept in Spanish style and corresponds well with the country it represents. The height of the first floor is 24 feet. In the center of the building a large court is arranged, 33x33 feet, with a gallery built upon colonnades of two floors. This court resembles the old patios in a Spanish house, and gives freshness and ventilation in the entire structure. In the center of the court there is a fountain from which the water plays as from a big rock. On each of the four corners of the building there is a tower 23x23 feet, surmounted by a beautifully decorated dome. The entire height of each tower is 65 feet. In two of the towers there are two large staircases, giving access to the gallery above, which extends as a terrace around the entire building. The construction is in wood, iron and staff, and the ornaments represent fruits and flowers, all in an original and light character. There are four large rooms on the first floor, and on the second floor a large reception room, with two offices and toilet rooms. All the exhibits from Guatemala will be found in this building, the most interesting of which is coffee, and how it is cultivated and marketed.

At a distance of about thirty-five feet from the main building is a rustic hut, 70x25 feet, and at the end of the same is a small kiosk, adapted for testing the coffee. The entire space around the building is converted into a large garden representing a coffee plantation, banana trees and other plants. Indian tents are placed in a corner of the grounds, and a landing place has been constructed opposite the principal entrance on the lagoon. The building cost $40,000.

**HAYTI.**

Hon. Frederick Douglass, Commissioner; Mr. Charles A. Preston, Commissioner; Mr. Alfred Harrisse, Secretary; Mr. Gustave Stromberg, Attaché.
The Hayti Building lies to the southwest of the German Building and adjoining that of New South Wales. It is in the Greco-Colonial style, surmounted by a gilded dome, which is copied after the State capitol of Massachusetts. The structure has a frontage of 126 feet, including piazzas 12 feet wide which surround three sides of the building. In the center of the façade is the coat-of-arms of the Republic of Hayti in a medallion surrounded by a scroll bearing the following inscription: "République Haitienne," and the dates 1492 (the discovery), 1804 (date of Haytian national independence) and 1893 (the present anniversary). On entering the building one comes into an exhibition hall 50x50 feet, in the center of which are eight Doric fluted columns supporting the dome. The decorations consist principally of red and blue bunting, the national colors, with flags and escutcheons. The exhibits in the pavilion consist principally of agricultural and forestry products, with some specimens of native industry in a general way. There is also displayed some pre-Columbian relics and the authentic anchor of the caravel Santa Maria, the mate to which was loaned by the Haytians to the Columbus collection in the Convent of La Rabida. The sword of Toussaint L'Ouverture is also shown among other relics of the struggle for independence. Opening from the main hall through a ten-foot archway is another exposition hall, at the rear of which Haytian coffee, prepared by native hands, is served. The entire left wing is given up for reception rooms and executive offices.

HONDURAS.

Messrs. Good & Fellows, 885 Rookery Building, Chicago, Representatives.

Honduras makes a collective exhibit in the Department of Agriculture, and shows specimens of cigars, tobacco and sarsaparilla. Very interesting Kopan relics of Honduras are exhibited in the Anthropological Building.

INDIA.

Richard Blechynden, Royal Commissioner.

The East India Pavilion is a rectangular building of staff, 80x60 feet. It is entered through a lofty gateway surmounted by four minarets, and is profusely ornamented in an elaborate arabesque design. The gateway, as is customary in structures of this style, forms the principal architectural feature of the building and it is here that the ornamentation is most fully carried out, and is reinforced by paintings in vivid oriental colors in strict keeping with the design followed, the whole having a rich and harmonious effect. On either side of the entrance are arcades lavishly decorated with relief work, bracelet and ornamentation. The minarets surmounting the gateway are repeated at the corners of the building, and spring from a parapet, the panels of which are covered with designs. Below the parapet and running round the building are sloping eaves, a very characteristic feature of the style followed. Internally the pavilion consists of a large hall, lighted from above, and with a broad gallery running round it on three sides to which access is given by the staircases. The building is erected by the Indian Tea Association of Calcutta, at a cost of $15,000, to contain exhibits of tea grown in different provinces of India. Here tea of every kind is displayed and is distributed in the cup. It is served by Indian waiters in Indian costumes. An original collection of photographs especially made for the purpose, is exhibited, showing the manufacture of tea in various stages. The tea industry is one of the most important in India, giving employment to thousands of people. Some of the wildest tracts of the country have been reclaimed from a state of virgin forest and converted into thriving gardens by the energy and capital of tea planters, and within the last thirty years the production of tea in India has arisen to one hundred million pounds in weight. Exhibitors from Delhi, Bombay, Calcutta and Sinila, show many art-manufactures of India and Burmah, as well as those of the governments of their highnesses, the Hizam of Hyderabad, and the Maharajas of Mysore, Patiala and Jodhpore. The exhibits consist of silver-
ware from Kashmir, Madras, Poona, Katch, Kattack, Lucknow, Delhi and Burmah, viz.: in vases, tea and coffee sets, claret jugs, etc.; carpets and rugs; shawls, wood furniture, carved and inlaid with brass and ivory in ebony, sandal, shisham, rose and teak woods; ornamental copper wire, enameled, encrusted and embossed; hand prints in colors and wax from every province of the Empire; brass ware, engraved and embossed; papier mache articles from Kashmir; hand painted pottery; embroideries, in silk, tinsel, real silver and silver-gilt thread on silk, cotton, muslin and other stuffs in the shape of ladies' ball and evening dresses, tea-gowns, fronts, cuffs, collars, strips, etc.; marble and other stone wares in inlaid mosaics, carvings and sculptures; woolen embroideries, in curtains, portiers, table covers, etc.; sandalwood boxes, frames and panels, inlaid, mosaic and decorated with ivory, tortoise-shell and horn; silks from Surat, Assam, Mysore, Madras, Bengal, Bombay, Benares, Burmah and Hirat, also raw Cora, Assam and Tassar silks; bidri ware, silver encrusted; tinsel decorated cotton stuffs; moradabad chased and lac-inlaid brass ware, such as lamp stands, vases, trays, etc.; ivory carvings and models from Burmah, Mysore, Murshedsbad, Surat, Delhi, Patiala and Vizagapatam, in images, etc.; Indian arms (new-for decorative purposes) ornamented with silver, metal and ivory, etc., all fac similes of old arms; damascened metal wares, inlaid with gold, silver and other metals; paintings on ivory, in miniature likenesses of the Moghul Padshahs and Sultanas and other leading personages. Also miniature paintings of architectural monuments; enamels on gold and silver; bronze and brass castings, in the form of animals and images; fans from Burmah, Tanjore, Sanantwadi, Poona, Surat and Benares; toys, lacquered and painted on wood; models in terra cotta, made by artists from Lucknow, Krishnagur in Bengal and Poona—a unique exhibit never previously shown on so large a scale and representing "India in a nut shell." The models are all art-sculptures and represent buildings from almost all parts of the Empire, as well as many ancient monuments, street, bazaar and house scenes, durbars, burial processions and grounds, temples, wedding and betrothal ceremonies, religious worship and customs, satti (a wife sacrificing her life on the funeral pile of her deceased husband, a practice now extinct); indigo and shellac factories; agricultural models, (illustrating the process of plowing, sowing, mowing, threshing, etc.); bazaars, vendors of commodities, and fruit and vegetable stalls. There are also models of artisans with their tools and appliances; of the means of transport by land, river and sea; and of the different tribes and castes of India. This class of exhibits is composed of several thousands of most artistic figures dressed in the costumes worn by the people. Then come shoes, as worn by the natives of the country; hand painted wood ware; pure Kashmir woolen stuffs, plain and embroidered; semi-precious stone jewelry, such as garnets, lapis lazuli, onyx, cornelian and jade, as worn by the Hindus; photographs of scenery, monuments of note, towers, street-life, types, castes and customs of the people. Also a set of photographs illustrating the process of elephant catching in the Mysore state; antiquities and curios collected from all parts of the Empire, Burmah and Thibet, such as arms, bronzes, coins, stuffs of every description embroidered and printed in cotton; wool and silks, chinaware, manuscripts and paintings; articles historical, religious and otherwise instructive, in bronze, wood, ivory, iron, silver and other metals. There is an inquiry office in the building and information is given regarding the manufacturers, imports of agricultural, raw and economical products, and the commerce of the Empire. The India Building is unlike any surrounding its location, which is close to the buildings of Sweden, New South Wales and Hayti. Every feature of its construction is Oriental and it is one of the most quaint and artistic on the grounds.

ITALY.

H. E. Marquis Enrico Ungaro, Royal Commissioner General; Count Detalmo Brazza di Savorgnan, Royal Commissioner; Dr. Ettore Candiani, Commissioner; Signor V. Zeggio, Royal Commissioner; Chev. Thomas Silombra, Commissioner; Signor Angelo del Nero, Commissioner
for the Fine Arts; Count R. Piola Caselli, General Secretary; Chev. L. Caldarazzo, Secretary; Signor G. Vigna dal Ferro, Secretary; Signor L. D'Urso, Secretary; Chev. G. Guetta, Official General Agent.

Italy occupies in all the departments to which she contributes about 70,000 square feet. The entire number of Italian exhibitors exceeds 11,500, of whom 665 make exhibits in the departments of Manufactures and Agriculture. The exhibits sent here by Italy and exhibited in the Manufactures section, are very largely works of industrial art, such as bronzes, marble for construction and decorative purposes, tapestries, embroideries, silken fabrics, Venetian glass, Venetian laces, cabinet-ware, inlaid woodwork, mosaics, jewelry, intaglio works, coral, etc.; specialties in manufactured delicacies for the table, such as sardines, spiced tongues and fish, and dainties of a like character. Italy occupies a court in the Manufactures Building to the south, and another on the balcony to the west.

In the Liberal Arts department are educational and musical exhibits of various kinds.

Specimens of nearly every article the fertile soil of Italy produces are shown in the Department of Agriculture.

In the Department of Horticulture the well known wines of Italy are shown, including all the brands of clarets—Barbera, Barolo, Nebiolo, Grignolino—from north of Italy; the fine champagne types from Asti and Treviso; the various Chianti's types from Eascary; the Cesane, Abatics, Marino and Genzans from the Roman Campagna; the strong wines from Basilicata; the celebrated wines of the Vesuvius territory; Lachryma Christ, Falerna, and other sparkling qualities; the white and red wines of Capri; the selection of Sicilian wines, including the nectars of Syracuse and the legendary Marsala; beside oils and preserved fruits, oranges, lemons, olives, dates, etc.

In the Department of Mines and Mining are shown specimens of iron, copper, sulphur and lead from Sicily, Sardinia and Elba; every quality and description of marble from the quarries of Serravezza, Carrara and Castellino, also alabasters and stones from the Alps, the Apenninco and the Adriatic section.

In the Fine Arts department the display of Italy is made in the five center rooms of the west pavilion, in the west court, and in the balcony alcoves of the north court of the Art Palace. Though ancient in design and mostly a representation of the grand days of Italian supremacy in art, the commissioners expect to interest visitors in a special type of exhibits which no other country in the world can produce. Rome in all the magnificence of its early days is illustrated and the many historical treasures of the Vatican cannot fail to elicit admiration and furnish food for reflection. Italian artists who are exhibiting number two hundred. The number of the works reach one thousand. They consist of oil paintings, water colors, statuary and bronzes. Angelo del Nero, the Royal Commissioner of Fine Arts, was the pioneer in Italy of the World's Columbian Exposition. Since November, 1889, of his own individual effort, he promoted, among his fellow-citizens and through the press, Italy's participation in the Exposition, traveling during the year 1890 from one end of his country to the other, agitating the question. In 1891 he came to America, residing for the most part in Chicago in order to become familiar with and to study the magnitude and the benefits to be derived from the great enterprise. Appreciating his effective labors and his earnest interest so zealously manifested, the Exposition authorities sent him to his own country as the special commissioner for the Department of Fine Arts, where his indefatigable work of promotion led the Italian government to officially recognize the art committees which had been previously formed through his personal efforts and to make an appropriation for the free transportation of the Italian exhibits. His enterprise, zeal and enthusiasm have also largely benefited the interests of the Bureau of Music, of the Latin-American bureau, of the woman's department and those of Publicity and Promotion.

During the period of the Exposition each commissioner has his office
in his own department. Signor del Nero, Commissioner of Fine Arts, has his office within the main south entrance to the west pavilion of the Art Palace, near 57th street station; Chevalier T. Silombra, Commissioner of Agriculture; on the west balcony of the Horticultural Building. Signor V. Zeggis, the Royal Commissioner, occupies an office on the northwest balcony in the Liberal Arts section, and Chev. Dr. Candiani, the Royal Commissioner for Industry, has an office in the Italian court in the Manufactures Building.

Countess de Brazzi, President of the Woman's Commission to Italy, and Mrs. Leopold Mariotti, Secretary, are carrying out the design of the Queen for the display of royal laces. These laces, which belong to the House of Savoy, have never before been out of Italy, and Mme. Mariotti has signed a contract in which it is stipulated that she alone will have the care of them. This exhibit was shipped in charge of twelve sailors of the royal marine or navy, one of whom remains on guard day and night. The Italian pavilion is located in the south section of the Woman's Building, between the Japanese and French pavilions. At the rear of the booth is an arch over which is spread drapery of green silk. This is covered with the laces to represent a lace Niagara. Leading up to the arch are a number of steps upholstered in red, like the throne-room in the Quirinal. The design of the room is of the fifteenth century period. The furniture was carved in Venice. Two sentinal figures of the same period present arms toward the lace just inside the wrought-iron gate which closes the entrance to the portal. The gate, which was made in Venice, is so finely wrought as represent a piece of delicately woven black lace. On the interior of the court is the image of a woman making lace, every part of which was carved by women. She is clothed in linen which was planted, spun and woven by women.

JAPAN.

H. E. Gozo Tateno, Vice-President of Commission; Honorable S. Tegima, Imperial Commissioner; Mr. C. Matsudaira, Imperial Commissioner; Mr. M. Kuru, Official Architect; Mr. T. Uchida, Secretary; Mr. H. Ishizawa, Secretary; Mr. K. Tawara, Secretary; Mr. H. Akiyama, Secretary; Mr. Y. Yambe, Secretary; Mr. H. Shimamura, Councilor; Mr. U. Saito, Councilor; Mr. K. Niwa, Councilor; Mr. S. Nishimura, Councilor; Mr. M. Taketo, Councilor; Mr. K. Watano, Councilor; Mr. J. Takamne, Councilor; Mr. R. Hayakawa, Councilor; Mr. Shioda, Councilor; Mr. S. Okamoto, Councilor; Mr. S. Amano, Examiner of Art Works.

The Japanese Building on the wooded island is modeled after the main plan of the Hoodo (Phoenix Temple), hence called Hooden, and consists of three separate buildings connected by wide corridors. They represent respectively the styles of three different epochs of Japanese history, but are unified by the general architectural design. The south wing is in the style of the Ashikaga period of about four hundred years ago. The north wing is in the style of the most prosperous time of the Fujiwara period of about eight hundred and fifty years ago. The main hall represents the style of the Tokugawa period of about one hundred and fifty years ago. These buildings follow the general ground plan of the original Hoodo, which is one of the famous historic temples built eight hundred and forty-two years ago, and is still existing at Uji, the district noted for tea plantations near Kyoto. These buildings are of unpainted wood, and the principle of Japanese construction and proportion is wholly adopted. The roofs of the same are covered with sheet copper according to the Japanese method. The floors, excepting that of the north wing, are furnished with thick mats, while the latter is covered with boards. The ceilings of the main hall, except two side rooms, are divided into small square panels of lacquered boards, and each of these is painted to correspond with the adjoining parts, while those of the two rooms are elaborately painted with figures of the Phoenix in gold and other colors. The wall space and surface of the sliding doors in every room are decorated with paintings of the same subject, the Phoenix, to suit each room. The work of interior decoration was undertaken by the Tokyo Art Academy, and the furniture and art works in the exhibition are selected by the Imperial Museum. All represent the three epochs to which they belong. The principal design of the building was made by Masamichi Kuru,
the government architect of Japan, and the builders are Okura & Co., who have sent a number of their workmen to Chicago. Japan’s exhibit in the Women’s Building, is one of the most interesting of the Exposition. A space of 800 square feet at the left side of the entrance at the northern part of the building is occupied by an exhibition of Japanese women’s work, including pictures (pure Japanese style), oil paintings, carvings, cocoons, raw silk, fabrics, embroideries, crinkled textures and crapes, yuzen (a Japanese fabric), hand woven Gobelin, osbie (relief pictures), lace, china ware and china painting, cloisonne, lacquer, artificial flowers. There is also a ladies’ boudoir shown, all strictly in Japanese style and specially prepared in Japan. Japan also has a handsome pagoda in the Manufacturers’ Building; a good exhibit in the Fisheries, and a garden in Horticultural Hall transplanted from Japan.

In the Department of Agriculture are shown specimens of rice, tea, vermicelli, macaroni, confections, sea food, tobacco, cigarettes, cocoons, hemp, fibres, mineral waters, sake, vinegar, soy, malt, glue, seeds, oils, wax, candles, bamboo works, ornamental and fossil woods, baskets, forest products, maps of flowers, umbrella handles, toothpicks, writing paper and envelopes, rattan work, etc.

In the Department of Horticulture are seen artificial fruits, persimmons, chestnuts, bamboo flower baskets, illustrations of lilies and maples, orchids, chrysanthemums, sago palms, ornamental leaf plants, cut flowers, canned mushrooms, seeds, fruits, preserves, jellies and jams, fruits in wax, plants, native leaves, etc.

Salt, iron oxide, red lead, sulphur, copper, tin and brass foils, antimony, gold and silver leaf and geological maps, reports and descriptions of the mineral resources of Japan are shown in the Department of Mines and Mining.

The machinery in use in Japan is illustrated in the Department of Machinery by exhibits of shuttles, tools for woodwork, printing utensils, etc.

In the Department of Transportation Exhibits are seen toy carts, baby carriages, models and diagrams of men-of-war, cruisers, tables and photos of railroad lines, bridges, tunnels, etc.

Perfumes, soaps, matches, joss sticks, toilet preparations, drugs, fireworks, chemists’ wares, paper and paper articles, wall paper, inks, stationers’ articles, writing brushes, imitation leather work, stenographic apparatus, cards, lacquer ware, screens, furniture, window curtains, pictures, fancy boxes, articles for house decoration, embroidery, ornaments in antimony, crystal and lacquer, bamboo work, silk fabrics, picture frames, art metal work, chinaware, faience, porcelain, stoneware, pottery, incense burners, niello work, cloissonneware, glassware, carved woodwork, carved ivory, bamboo carving, silverware, ornaments, charms, buttons, pins, raw silk and silk fabrics, crapes, gauses, ramie fabrics, matting, braids, threads, cotton fabrics, feather fabrics, woolen fabrics, clothing, boots and shoes, underwear, gowns, furs, tapestry, fans, artificial flowers, laces, tapestry, trimmings, hair pins, combs, brushes, parasols, satchels, leather goods, canes, lunch sets, umbrellas, pipes, mirrors, gutta percha water proof cloth, dolls, drums, toys, bird cages, picture books, scales, swords, lamps, lanterns, lamp shades, electric light fixtures, candlesticks, dusters, pocket warmers, iron posts and pots, tea pots and kettles, knives and scissors, safes, edge tools, razors, etc., are grouped in the Department of Manufactures.

In the Department of Liberal Arts Japan shows surgical instruments, optical, pharmaceutical and dental appliances, educational reports, text-books and diagrams of school buildings, school appliances, pictures, drawings, slates, maps, books, charts, photographs, postal system, prison records, statistics of trade and commerce, coins and metals, musical instruments, toys, statistics of life insurance, maps and tables showing lighthouses, lines of navigation, telegraphic and telephone routes, public engineering, wharf building, etc.

In general Japan makes one of the most interesting and creditable displays of all foreign countries. There are many reasons why one of the oldest of nations should be congenial with one of the youngest. There is no doubt that a
part of the original civilization of this continent was due to adventurous tribes akin to the Japanese, and the monumental architecture of Mexico as well as reasonably credible historical records almost demonstrate that an early bond existed in arts, religions and traditions among the native American races and the people from the Pacific. The Japanese are realizing keenly the importance of assimilating modern ideas and of accepting western customs. They are gentle, modest, studious. The beauty of their country pervades their nature, and they are intuitively decorative. There are in all about 300 Japanese exhibitors, a large representation considering the limited scope of industries in their country and the expense attaching to their transportation of materials and men. They are fast overtaking other foreign merchants in certain lines of natural products as well as of manufactured ones. They present seventy-two exhibits of rice alone and fourteen of vermicelli and macaroni. There are two hundred and fifteen exhibitors of tea and tobacco. Silk from the cocoon, carried through all processes up to the soft draperies, is an attractive feature to visitors from all countries. In sericulture—the raising of silkworms—they are probably unrivaled. Judgment varies among Western critics concerning the intrinsic worth of their fine arts, especially the pictorial. But there is no division about the sincerity and ardor of their addiction to beautiful forms nor of the universality of the decorative idea throughout their industries. Their own carpenters, painters and decorators did all the work in preparing their portion of the exhibits. They have grown quite accustomed to our ways, and do not surrender their methods in favor of ours unless the superiority of the new over the old is apparent. Their artisans are among the most diligent, painstaking and prompt in the Park. Their catalogue was the first presented to the catalogue compilers. It was mechanically faultless, and written in good English. The installation of their exhibits has proceeded with smooth and judicious direction, so that it lacks nothing in completeness. Their officials are suave, patient and efficient.

JAMAICA.
Hon. Lieut.-Col. C. J. Ward, C. M. G., Commissioner; Mr. George Augustus Douet, Assistant Commissioner; Mr. Edmund Haughton Sanguinetti, Secretary.

Tobacco, cigars and cigarettes, cocoa, coffee, chocolate, Kola beans and powder, sugar, ginger, pepper, nutmegs, assorted fibres, kuskus grass, aerated waters, rums, cordials, wines, rice, starch, tapioca, arrowroot, cassava cakes, banana meal, oils, pimento, pickles, native woods, India rubber, seeds, etc., are shown from the Island of Jamaica in the Department of Agriculture.

There are three groups in the Department of Mines and Mining embracing clays, pottery sand, salt, ochre and copper.

In the Department of Manufactures exhibits are made of drugs and pharmaceutical preparations, extracts, denticifes, essential oils, fancy work, pottery, mats and baskets, hats, fibre work, leather, etc.

The history and laws of Jamaica, vital statistics, photographic views, law books and maps are shown in the Department of Liberal Arts.

JOHORE.
Dato Sri Amar d’Raja, C. M. G., Secretary to H. H. the Sultan, Commissioner; Mr. H. W. Lake, Deputy Commissioner.

Owing to local troubles of a warlike character Honduras relinquished the space taken at the Exposition, and the commissioners from Jahore at once took it. This occurred only a few days before the opening, but despite the short time in which to make ready its exhibit, Jahore makes an attractive display.

A collective exhibit is made in the Agricultural Building, besides an outside space. It consists of krisses and seirongs, agricultural implements, weights, measures and coins, native woods, hides and skins, stuffed birds, and the Indian bungalow, which is a conspicuous feature. The tea culture of Johore is exemplified in a fine exhibit of teas shown in the Department of Agriculture.

KOREA.
Hon. Chung Kyung Won, Royal Commissioner; Mr. Ye Sung Soo, Special Commissioner;
Mr. An Key Sun, Interpreter; Mr. Chung Pong Hwan, Interpreter; Hon. Ye Cha Yun, Korean Charge d'Affaires.

Manufactures is the department in which the principal Korean exhibits may be seen. These include fabrics, silk and cotton, grass cloths, hemp, lion and tiger skins, furs, deers' horn, implements of war and the chase, household ware, utensils, native costumes, inlaid ware, bric-a-brac, and curios. Some very large sedan chairs peculiar to the country are also included in the collection. Minerals from the kingdom are also exhibited.

LIBERIA.

Hon. William E. Rotherapy, Commissioner; Hon. Alfred B. King, Commissioner; Mr. William C. Brockmeyer, Secretary.

Liberia makes an unclassified collective exhibit, installed in the Agricultural Building. Here, from the various tribes, are shown specimens of iron, fishing contrivances, canoes, charms, quaint musical instruments, ivory, idols, books of the Koran, jewelry, skins of native animals, oils, seeds, cane sugar and syrups, pepper, medicinal plants, nuts, native dyes, coins, minerals, dirks and knives, spears, bows and arrows, rice and coffee, palm oil, palm kernels, arrowroot, camwood, hardwoods, ivories and various articles showing the manners, customs and habits of the natives. The principal article is the Liberian coffee, which is a peculiar species, and has received the name of coffee Liberiansis by coffee experts. A peculiarly interesting exhibit, unique because of its rarity is a finely mounted specimen of a "hippopotamus Liberiansis." This animal was supposed to have long since passed out of the animal world. There are but two other specimens, one in London and one in Paris. This specimen was prepared by the Academy of Natural Sciences in Philadelphia, and will be returned to that institution after the Exposition. Liberia is the only civilized Christian negro state in Africa, and is exerting a wide influence in the enlightenment of those parts of the continent with which it comes in contact. The country is after the model of the United States Government. The means of communication between Liberia and America are poor, which is much to be regretted, because the people use the same language and have the same manners and customs as the Americans and present a field for the further development of American commerce. It is nearer to the United States than is Europe and still all the trade of Liberia is done with Europe. English and German steamers constantly visit the west coast of Africa.

MEXICO.

Señor Lic. Miguel Serrano, Delegate General; Engineer Fernando Ferrari Perez, Secretary General and Sub-Delegate; Señor Lic. José F. Godoy, Auxiliary Agent; Señor Don M. G. Torres, Commissioner; Señor Don A. D. y Hernandez, Commissioner; Señor Don M. H. de Azua, Commissioner; Señor Don A. R. Nuncio, Commissioner; Señor Don M. de las Piedras, Commissioner; Señor Don Orthon de Palacio y Magarola, Commissioner; Señor Don M. M. Chabert, Commissioner; Señor Don Julio Poulal, Commissioner; Señor Don Rosendo Sandoval, Commissioner; Señor Don C. Sellerier, Commissioner; Señor Don J. D. Fleury, Commissioner; Señor Don Lauro Viadas, Commissioner; Señor Don F. Atristain, Commissioner; Señor Don R. Escobar, Commissioner; Señor Don Rafael Mallen, Commissioner; Señor Don A. M. Chavez, Commissioner; Prof. Mariano J. Garfias, Assistant Secretary; Señor Don José Oteo, Commissioner; Señor Don M. Caballero, Commissioner.

In the Department of Mines and Mining Mexico has made an exhibit which will astonish the world with the extent and wealth of the mining in that country. It consists of gold, silver, and copper ores, and in the consignment received and installed in the Mines Building there were 300 cases, and they averaged over 1,000 pounds each. Mexico also makes very creditable displays in nearly all the other departmental buildings. In the Department of Agriculture the raw products of the country, principally coffee and sugar, are shown. In the Department of Transportation Exhibits a fine display is made by the Mexican Central Railroad. Ore crushing and sugar machinery are shown in Machinery Hall. In the Department of Manufactures and Liberal Arts Mexico has 5,443 square feet, and the various manufacturing industries of the republic, and the educational and internal affairs of the government are there exhibited.
Mme. Diaz, the wife of President Diaz, has taken deep interest in the Woman's Department of the Exposition, and Mexico's display in this department is attractive and interesting.

MONACO.
A. Mackie, Commissioner; Mr. Louis H. Ayne, Assistant Commissioner.

This little principality has a collective exhibit in the Department of Electricity, and it consists in the main of tapestry, silverware and heirlooms.

NETHERLANDS.
Mr. George Birkhoff, Jr., Royal Commissioner General; Mr. Hubert Vos, Acting Commissioner of Fine Arts; Mr. A. Preyer, General Manager Fine Arts.

The Netherlands exhibit in the following departments: Agricultural, Horticultural, Fisheries, Transportation, Manufactures and Fine Arts.

The exhibit in the Agricultural department consists of sweet chocolate, cocoa, Dutch cake, arack, rum, gin, cordials, liquors, indigo and kapok.

The exhibit in the Horticultural department is entirely outside of the building and on the Wooded Island. It consists of a beautiful collection of roses, Darwin tulips, bulbs, climbing plants, trees and shrubs.

In the Fisheries department is exhibited an artistic herring boat, in full sailing order as seen on the ocean, at one-seventh of its original size.

In the Transportation Exhibits department is exhibited a collection sent by the Royal Institute of Engineers of Holland, showing the different waterways and public works of that country; there are also model Dutch sailing vessels on exhibition.

In the Manufactures department the exhibit consists of earthenware, porcelain, painted porcelain, tiles, mantel decorations, porcelain panels, marble statues, metal vases, church ornaments and windows, prescription and chemists' scales, imitations of wood and marble, etc.

In the Department of Fine Arts there is a fine collection of paintings of modern Dutch masters, contributed by 138 artists and consisting of 189 paintings, 108 drawings and 72 etchings. This collection is more important than the one sent to Paris in 1889.

In addition to this the Netherlands East Indian Colonies have in the Agricultural Building a pavilion, made of bamboo, nicely decorated, in which are exhibited the products of those colonies, consisting of rice, flour, cane sugar, palm sugar, tea, coffee, cocoa, pepper, cloves, cinnamon and other spices, tobacco, indigo, kapok and tin.

The Royal Commission has its office in the Netherlands exhibit of the Manufactures Building.

NEW SOUTH WALES.
Honorable Dr. Arthur Renwick, M. L. C., Executive Commissioner; Mr. Herbert J. Renwick, B. A., Private Secretary; Mr. Robert Hudson, J. P., General Superintendent; Mr. Thomas Pugh, Assistant General Superintendent; Mr. Alexander Bruce, J. P., Superintendent (Stock); Mr. Joseph E. Carne, F. G. S., Superintendent (Mines); Mr. W. Fitzwilliam Terry, Superintendent (Liberal Arts); Mr. Joseph F. McGuinness, Assistant Private Secretary; Mr. James Martin, M. P., Member of the Commission; Mr. C. C. Skarratt, Member of the Commission; Dr. Carl F. Fischer, Member of the Commission.

The New South Wales Building is classical in design and ornamentation. It covers an area of 4,320 square feet, being 60x60 feet in exterior dimensions, with a portico 12 feet wide extending across the front. There is a flight of three steps leading to this portico and extending across the front and ends of the same. The roof of this portico is supported by six Doric columns, two feet and six inches in diameter, and twenty feet high, with a cornice, frieze and balustrade extending round the entire building. At each of the corners is a large Doric pilaster corresponding to the columns of the portico. The entrance is in the center of the portico front. All openings have molded architraves and cornices, and each window has a pair of molded modillions under it. The exterior of the building
is staff. The central portion is occupied by a hall thirty feet in width, and extending the entire depth of the building. In the center is a polygonal dome thirty feet in diameter, the top being forty feet from the floor. This dome adds to the effect, light and ventilation of the whole, and is covered on the interior with ornamental staff. Arranged on three sides of the main hall are the various offices of the legation, eight in number. There is a large toilet room in the rear.

New South Wales makes a strong showing in nearly all the exhibit sections, principally in the departments of Mines and Mining and Liberal Arts. In the latter department the space occupied is in the west gallery of Manufactures Building. It is divided into five courts, and over the entrance is the Australian coat-of-arms made in a realistic way. The supports of the coat-of-arms are a kangaroo and an emu. In one court are all the rare birds of Australia stuffed and perched on native bushes. Some of them are of very brilliant plumage, and they range from the emu down to a humming-bird, which is pure white. In this room is also placed a group of four platypus. This is the species found in the southern hemisphere that science has never been able to classify. It is about the size of a beaver, has fur like a seal, a bill like a duck, eyes like a fish, is web-footed, lays eggs, hatches its young, and lives in the water. It is a sort of combination misfit, and is very rare. One of the courts is given up to the Technical College of Sydney, and illustrates all the work done there. Another is a model of an Australian newspaper office. The ethnological display is very rich, as it includes, as far as can be shown, the history of the aboriginals of not only Australia but all of the South Sea Islands. One of the most attractive features is the photographs taken by the government artist. Under the coat-of-arms, and over the entrance, is a photograph of Sydney harbor, thirty-two feet long, and there are several eight feet long. The walls of all the courts are lined with photographs 40 by 50 inches, showing all of the public buildings, statues, mountain and water scenery, the banks, and many other objects of interest. There are also two collections of water colors. One is by Mrs. Rown of Sydney, and represents all of the animals of the country. The home government offered $35,000 for the collection, but it is not for sale. The other is by Cayley, and is of the birds of the country.

In the Department of Mines and Mining the New South Wales exhibit attracts much attention, and it gives a good idea of the great mineral resources of Australia.

NORWAY.

Mr. Chr. Ravn, Royal Commissioner General; Mr. Annas C. R. Berle, Secretary Royal Commission; Mr. S. A. Buch, Commissioner of Fish and Fisheries; Mr. Otto Sinding, Commissioner of Fine Arts; Mr. Torolf Prytz, Commissioner of Manufacture; M. N. Kielland, Architect to the Royal Commission; Mr. Otto Enger, Assistant to Commission of Fish and Fisheries; Mr. S. Sinding, Volunteer Assistant to Commissioner of Fine Arts; Mr. I. K. Boyesen, Chairman of Royal (Local) Committee; Mr. O. A. Thorp, Secretary of Royal (Local) Committee.

The pavilion of Norway is located in the northeast end of the park between the Fine Arts Building and the pavilion of France. Its style of architecture is of the old Norse, so called Stane-kirke type, which dates from the eleventh century, and of which examples are still to be found in several old church buildings preserved in Norway as memorials from centuries ago. The historical dragon heads, which adorned the Viking ships of that and earlier periods, will be recognized in the similarly ornamented gables of the pavilion.

The building is 24x40 feet and is used as headquarters for Norwegians and as an office for the Norwegian Commission.

The Norwegian exhibit is found principally in the Department of Agriculture. It consists mainly of cheese, beers and ale, liquors, bitters, pure spirits, whalebone, whale guano and other sea and whale products, oils, wood pulp, timber, etc.

In the Department of Horticulture are preserved vegetables, pickles, etc.

Fish products, aquatic birds, nets, seines, hooks, lines, harpoons and equipment for whales and porpoises, foghorns and lanterns, skin and oil clothing and
equipments, cured fish, cod liver oil, stearine, preserved fish, etc., peculiar to the fish industry of Norway, are shown in the Department of Fish and Fisheries.

In the Department of Transportation Exhibits are shown models of locomotive and railway cars, blocks and dead-eyes, mail wagons, sleighs, kariols, etc.

Wood-carving, beer tankards, drinking horns, portieres, wall hangings, jewelry, silver and gilt table ware, gold ornaments, diamond jewelry, watches, rugs, gloves, embroideries, brushes, dolls, stoves, mud protectors, etc., are shown in the Department of Manufactures.

Books, school material, publications and Norwegian statistics, drawings and desk for deaf mutes, reports and charts of Arctic expeditions, photos of scenery, statistical maps of mining and commerce, musical instruments, etc., are shown in the Department of Liberal Arts.

ORANGE FREE STATE.

E. R. Grobler, Commissioner.

An exhibit of uncut diamonds is made by Orange Free State in the Department of Mines and Mining.

PARAGUAY.

Dr. César Gondra, E. E. and M. P., President ad honorem; Dr. Emil Hassler, Commissioner General; Mr. A. R. Sainte Croix, Commissioner; Mr. Frederico Fernandez, Assistant Commissioner; Mr. Fidel G. Pierra, Assistant Commissioner.

Although any one coming to the Exposition from Paraguay must traverse the Atlantic twice and travel a dozen thousand miles, a number of visitors from that country are coming. In making the trip it is necessary to go to Italy, where a vessel can be taken for New York. Paraguay makes an interesting exhibit, the object being to show what an immense commerce could be maintained between that country and this—trade that now benefits Europe. With vessels making the trip direct, both the countries would be very materially benefited.

PERSIA.

Honorable E. Spencer Pratt, Commissioner General, Mr. Clarence Andrews, Assistant Commissioner.

Persia exhibits rugs, armors, carpets, etc., in Manufactures Building.

PORTUGAL.

Mr. J. M. do Outeiro Ribeiro. Adjunct Commissioner, Mr. S. Chapman Simms, Vice Counsel and Secretary of Commission.

Portugal makes one of the largest and finest displays of wines to be found in the section of viticulture. It consists of fine old port, Madeira, sherry and champagnes in casks and bottles.

RUSSIA

H. E. Imperial Chamberlain P. de Gloukhoyskov, Commissioner General; Mr Constantine de Rakouza-Soustcheffsky, Imperial Commissioner, Mr. A. de Tsherep-Spiridovitch, Imperial Commissioner; Mr. Alexis de Kobellatzky, Member of the Imperial Commission; Mr. Robert de Lingen, Imperial Commissioner; Mr. A. Zelenoy, Imperial Commissioner; Mr. Franz Utne mann, Imperial Commissioner; Mr. M. Bilbasoff, Imperial Commissioner; Mr. P. Andreiev, Delegate of the Ministry of War; Prof. Dimsha, Delegate of the Ministry of Public Instruction; Mr. B. Tedorov, Delegate of the Imperial Appanages; Mr. Vladimir de Weshniaakoff, Imperial Commissioner; Mr. I. Lebedkine, Delegate of the Ministry of State Domains; Mr. A. Niedikhalieff, Delegate of the Commission of the Central Asian Exhibition of Moscow; Baron Pillar von Pilchau, Delegate of the Imperial Appanages, Count Rostovtzeff, Delegate of the Ministry of State Domains; Prof William Williams, Delegate of the Ministry of State Domains; Mr. A. Roppet, Architect, Imperial Commission; Prince S. Volkonsky, Delegate of the Ministry of Public Domains; Mr. T. Kamensky, Sculptor; Mr. E. Baikov, Clerk; Mr. Alexander Grinevsky, Imperial Commissioner.

DELEGATES.

Ladies' Committee under the High Protection of Her Majesty—Princess M. Shakovsky, Maid of Honor of Her Majesty.

Charity and Educational Institutions of the Empress Mary—Mrs. T. Semetchkin; Mr. O. Aderkas, Councilor of College.

Ministry of War—Mr. A. Heard, Councilor of State; Mr. P. Andreev, Technological Engineer.
Ministry of Marine: Mr. D. Mertvaho, Post Captain; Mr. E. Kolbassieff, Lieutenant; Mr. N. Oglolbinsky, Lieutenant.

Ministry of Interior: Mr. Bernhard, Civil Engineer.

Ministry of Public Instruction: Prince S. Volkonsky, Gentleman of the Emperor's Bed Chamber; Mr. L. Dimsha, Professor of St. Petersburg University; Mr. T. Kovalievsky, Secretary of College.

Ministry of Finance: Mr. J. Ianschul, Actual Councilor of State, Professor of University of Moscow; Mr. D. Konovalov, Councilor of State, Professor of University of St. Petersburg.

Ministry of Public Domains: Mr. A. Pletnoff. Member of the Imperial Russian Commission; Count Stenbock-Fermor, Councilor of Court; Mr. Jigalkovsky, Councilor of Court; Mr. J. Lebedkine, Assessor of College; Count J. Rostovtsov, Secretary of College; Mr. M. Konshin, Secretary of College; Mr. M. Williams, Professor of Petrovsky Academy; Mr. P. Slieskin, Professor of Petrovsky Academy.

Ministry of Ways and Communications: Mr. A. Ryjoff, Councilor of Court; Mr. P. Protopenov, Honorable Councilor.

Department Imperial Appanages: Mr. M. B. Fedoroff, Councilor of Court; Baron Pilar Von Pilchau, Assessor of College.

Central Asian Exhibition at Moscow: Mr. A. Niedikhiiaieff.

Adjoint: Mr. G. Gagenfelden, Commissioner of the Board of Government Stamped Paper; Mr. I. Petrovo-Roppett, Architect; Mr. A. Protopenov, Delegate of the Imperial Technical Society; Mr. F. Kamensky, Sculptor; Mr. E. Baikoff, Employe; Mr. R. Meltzer, Etalagist.

The exhibits in the various departments made by Russia are valued at $500,000. In the Department of Mines and Mining diamonds are a conspicuous feature of the Russian exhibit.

Russian paintings, statuary and other specimens of fine arts are exhibited in the art galleries, while in the Departments of Manufactures and Transportation Exhibits many specimens of Russian handiwork are shown.

In the Department of Manufactures can be seen one of the greatest collections of Russian furs ever shown outside the empire. The fur-bearing animals of the great Siberian steppes, as well as those of European Russia, have been drawn upon. The dressing and manufacture of furs into garments, for which the Russians are noted, are also here illustrated. Silverware of fabulous value; furniture, in which many of the valuable native woods, besides some remarkable effects in wood carving and ornamentation, is shown. There is a very complete display of silks in the various grades, for which Russian silk manufacturers are specially noted, including some remarkable specimens of gold and silver weaving on silk backgrounds. Such methods of ornamentation are only common, even in Europe, when some priceless vestments for priestly use are being prepared, or some special decorations for court purposes are contemplated. In the ordinary commercial fabrics, such as cotton and woolen goods, Russia also makes an elaborate showing.

A special collective exhibit of Asiatic products is made. The Asiatic exhibit is part of a similar exhibit held in Moscow two years ago which attracted worldwide attention at that time. It contains a collection of implements, manufactures, arts and illustrations of the natural resources and methods of life in the oriental dominions of the czar. This is probably the only reliable exhibit of Asiatic products, customs and arts ever brought to America, and will be instructive in furnishing an accurate knowledge of the people of central Asia. There is also a large display of pianos by Russian makers. Then there are beautiful bronzes, malachites and marbles by leading manufacturers.

In the Department of Liberal Arts, Russia makes a fine showing. There is a complete exhibit by the principal governmental and private schools of the empire; also specimens of gold and silver embroidery, etc.

In the Department of Fine Arts over 200 works of art are shown. The Imperial Academy of Fine Arts at St. Petersburg has sent out what is probably the best collection of Russian paintings ever shown at a foreign Exposition. It is not claimed, however, that all the leading artists of the empire have contributed to the exhibit. The younger Russian artists are out in force, and many of the older ones with whose work the art world is familiar. The studios of St. Petersburg and Moscow are represented. The works of such distinctive Moscovite painters as Beroff are seen in the collection. The great works of Rapin,
BUILDING OF SPAIN.

CONVENT OF LA RABIDA.
Semiratsky and Makoffsky give a distinctively Russian tone to the exhibit. There is not much sculpture in the art display. There are some engravings and a few water colors. Oil paintings constitute the leading feature of the exhibit.

In the Shoe and Leather Building Russia shows the various grades of rubber and leather fabrics. A particular feature of the Russian leather exhibit is mosaic leather and stamped leather. There are twenty-eight exhibitors in the department of the shoe and leather exhibit, all being prominent Russian firms or corporations.

In the Department of Transportation Exhibits models of vessels, cables and chains, and maps and plans of railways, canals, etc., are shown.

In Mines and Mining the great Siberian mines are illustrated by maps, implements and statistics, and metallurgy is shown in various forms.

The electrical exhibit is small, there being only 200 square feet set apart for Russia in Electricity Building.

In the Department of Fisheries there are models of fishing craft and a valuable collection of specimens of all forms of the finny tribe found in Russian waters.

SIAM.

Phra Suriya Nuvat, Royal Commissioner; Hon. Isaac Townsend Smith, Consul General, Assistant Commissioner; Luang Nephat Kulaphongs, Assistant Royal Commissioner.

Siam's exhibit is mostly of the products of the soil and manufacture, specimens of woods and especially of teak, which is used extensively in ship building, are shown. One piece is six feet broad, which is quite a curiosity. Exhibits of carving in ivory, work in brass, native vegetables and various fancy articles of manufacture are also made. The wife of the Siamese Commissioner has charge of the exhibits of the women of Siam. This exhibit is mostly of fancy work, crocheting and needlework. The King appropriated $35,000 for the purpose of arranging the exhibit.

SPAIN.

H. E. Señor Don Enrique Dupuy de Lome, Minister Plenipotentiary, Royal Commissioner-General; Señor Don A. G. del Campillo, Secretary of Legation, Assistant Commissioner General; Don Rafael Puig y Valls, Civil Engineer, Special Commissioner for Industry; Don Juquin Pavia, Architect, Special Commissioner for Fine Arts; Capt. Don Juan de Cologan, Royal Engineers, Special Commissioner of the Department of War; Lieut. Don Juan Ibarreta, Royal Navy, Special Commissioner of the Department of Navy; Don Rosendo Fernandez, Delegate of the Chamber of Commerce of Havana, Cuba; The Marquis of Villalobar, Attaché to the Legation and Commission; Don Manuel Perez Seoane, Attaché to the Legation and Commission; Mr. Hobart C. Chartfield-Taylor, Consul, Attaché to the Commission; Don Jaime Parlade, Treasurer, Attaché to the Commission; Don Juan Vilardell, Attaché to the Commission; Don Juan Espina, Assistant Commissioner of Fine Arts.

The Spanish Building, which is modeled after the Casa Lonja of Valencia, shows only parts of the original building, the column hall and the tower having been reduced in proportion to three-fourths of the original, which was erected before the date of the discovery of America. The structure has a frontage of 84 feet 6 inches. There are three floors, two of which are occupied by the Royal Commission. The space is distributed in three naves longitudinally and five naves transversely, corresponding to eight pillars in the center, with quarters and halves in the lateral walls and corners, forming in all fifteen vaults. The ornaments represent the church, magistracy, military and the arts; also the agricultural, commercial and industrial pursuits of the kingdom. The material is wood and staff.

The general exhibits made by Spain outrank anything that country did at the Centennial or the last two Paris Expositions. The wealthy men of Spain whose wine cellars are famous at home took so much interest in the exhibit as to send over 12,000 bottles of their choicest collections. This forms a portion of the wine display.

In the Fine Arts Palace are shown forty-six oil paintings and twenty-two sculptures from Barcelona, besides many architectural works and engravings. To round out the exhibit of manufactures, the displays made recently at a special exhibition at Barcelona were shipped here.
First-class exhibits are made in the Departments of Machinery and Electricity.

In the Transportation Exhibits Department the Marquis of Comillas, President of the Spanish Transatlantic Company, alone took all the space assigned to Spain and the many models of ancient and modern naval architecture are provided for.

The agricultural display comprises 6,605 square feet. Exhibits for this department come from Cuba, Puerto Rico, the Philippine islands, and the coast of Guinea. These provinces show samples of coffee, sugar, mineral waters, preserves, tobacco, manilla hemp, cocoa, chocolate, etc.

In the Department of Ethnology Spain occupies 10,000 feet. It has also the chapel of the Convent of La Rabida and space in the Woman’s Building. Her Majesty, the Queen Regent, is the President of the Spanish Woman’s Commission and personally superintends the work.

The Spanish pavilion in the Woman’s Building contains 200 square feet and is located just in front of the south entrance. A recent communication from Spain shows the appreciation of the women of that country of the marked consideration shown them by the Board of Lady Managers. Spanish women instead of receiving the general circular letter sent to other countries were addressed by a personal letter from the President of the Woman’s Board. In response to the cordial letter from Mrs. Palmer there was much enthusiasm in Spain, and a great many personal relics of Queen Isabella are therefore exhibited. In the collection is the sword of “Her Majesty,” which is preserved in the Royal Armory at Madrid. This, together with a portrait of Isabella, and some jewels which belonged to her occupy the place of honor in the Spanish woman’s exhibit. This exhibit is so complete that it gives a comprehensive idea of the culture and progress of Spanish women during the different periods of their history. A curious and interesting feature of the exhibit consists of a number of ingeniously contrived manikins, showing with historical accuracy the characteristic types and costumes of the different provinces of Spain. Many beautiful and strange articles of needlework made by the country women are in the collection. Cushions richly covered with gold and silver lace, a quantity of the beautiful variety of lace known as “Olonde;” spinning wheels, curios made by the primitive machines in linen and worsted, and picturesque ornaments for the coiffure are shown. Donna Concpcion Arenal, who recently died, was in charge of the literary exhibit, as she was the recognized leader of all intellectual movements in her country, especially in the line of philanthropy and reform. The religious writings of St. Theresa, of Jesus, which rank with the first Spanish classics, a volume of Latin poems written by Donna Lucia Riega in the sixteenth century, the original manuscripts of a number of poems written by Queen Maria Amelia, the second wife of King Ferdinand VII, are also in the collection.

The Duke of Veragua sent to the State Department at Washington the most interesting historical documents in the world relating to the voyage and discoveries of Columbus, and these are exhibited in the Convent of La Rabida. The documents are appended herewith and form a history authentic in its character of the doings of the great navigator:

1. The commission of Columbus. The original commission given to Columbus by Ferdinand and Isabella upon his departure for the first voyage, dated Granada, April 30, 1492, appointing him Grand Admiral of the ocean seas, Vice-King and Governor-General of all the lands that he should discover.

2. Royal letters patent from the sovereigns of Spain granting licenses to the persons accompanying Columbus on his first voyage. Dated Granada, April 30, 1492.

3. Royal letters patent from the sovereign of Spain commanding the inhabitants of Palos to furnish Christopher Columbus with two caravels for his first voyage. Dated Granada, April 30, 1492.

4. Royal letters patent from the sovereign of Spain commanding the inhabitants of Palos to furnish Christopher Columbus everything necessary to equip the caravels for his first voyage. Dated Granada, April 30, 1492.

5. Royal letters patent from the sovereigns of Spain exempting from taxes supplies needed for the fleet of Columbus on his first voyage. Dated April 30, 1492.
6. Royal letters patent from the sovereigns of Spain ordering that Christopher Columbus may take without charge anything needed for his first voyage. Dated May 15, 1492.
7. Royal letters patent from the sovereigns of Spain granting power to Christopher Columbus to seal and deliver stores of provisions in their names. Dated May 15, 1492.
8. Royal letters patent from the sovereigns of Spain commanding that Christopher Columbus be allowed to pass freely through ports, cities, towns and villages. Dated Barcelona, May 29, 1492.
9. Certificate of Roderigo Perez, notary public in the City of Isabella, Santo Domingo, Dec. 16, 1495, concerning the contract made by the sovereigns of Spain with Christopher Columbus in the Town of Santa Fé de la Vegas de Granada, April 17, 1492.
10. Royal letters patent from the sovereigns of Spain authorizing 300 persons to be taken by Columbus on his second voyage. Dated Burgos, April 23, 1493.
11. Royal letters patent from the sovereigns of Spain commanding Columbus to prepare a fleet for his second voyage. Dated May 29, 1493.
12. Royal letters patent from the sovereigns of Spain commanding captains and masters of vessels to recognize Admiral Christopher Columbus as Captain-General, and to obey him in every particular. Dated at Barcelona, May 28, 1493.
13. Royal letters patent from the sovereigns of Spain authorizing Christopher Columbus to appoint three persons for the offices of government in the lands he should discover. Dated Barcelona, May 28, 1493.
14. Instructions for his second voyage given to Columbus by Ferdinand and Isabella, May 29, 1493.
15. Original memoranda written by Christopher Columbus to the sovereigns of Spain concerning the money required for the compensation and subsistence for six months of the 300 people who were to accompany him on his second voyage.
17. Letter from the sovereigns of Spain to Columbus assuring him of the peaceful intentions of the King of Portugal. Dated June 12, 1493.
18. Letter from Queen Isabella to Columbus recommending Juan Aguado to a good position in his fleet. Dated June 30, 1493.
19. Letter from the sovereigns of Spain to Christopher Columbus recommending the appointment of Sebastian de Olano as Collector in Indies. Dated Aug. 4, 1493.
20. Letter from the sovereigns to Christopher Columbus urging him to hasten his departure to the Indies, Aug. 18, 1493.
21. Letter from Queen Isabella to Columbus inclosing a copy of a book he had left with her, asking him to send her a certain sailing chart, and urging him not to delay his departure. Dated Sept. 5, 1493.
22. Letter from the sovereigns of Spain to Christopher Columbus asking his opinion in regard to a certain document which had been prepared in reply to the King of Portugal. Dated Barcelona, Sept. 5, 1493.
23. Letter from the sovereigns of Spain to Christopher Columbus concerning certain expeditions of the King of Portugal and informing him that the book which he left with them would be forwarded to him by Don Juan de Fonseca, June 1, 1493.
24. Royal letters patent from the sovereigns of Spain directing Christopher Columbus to return to the Indies. Dated Modina del Campo, June 22, 1493.
25. Decree of King Ferdinand and Queen Isabella granting to Columbus an annuity of 10,000 maravedis, to be paid from the tax upon the butcher-shops of Cordova during his lifetime. Dated at Valladolid, Nov. 18, 1493.
26. Books which contain certified copies of royal letters patent from the sovereigns of Spain granting Christopher Columbus all the rights, titles, dignities, and regalies enjoyed by the Admirals of Castile. Copies of royal letters patent in towns established in Santo Domingo. Contracts of Columbus with the sovereigns of Spain.
27. Instructions from the sovereigns of Spain to Columbus concerning his second voyage, dated Barcelona, March 30th, and Sept. 15, 1493; Modina del Campo, April 19, 1494; and Segovia, Aug. 16, 1494.
28. Letter from the sovereigns of Spain to Christopher Columbus acknowledging with great gratification the receipt of letters by the hands of Antonio de Torres and requesting him to send Bernal Diaz de Pisa, accountant of the expedition, to Spain, dated Modina del Campo, April 13, 1494.
29. Letter from the sovereigns of Spain to Christopher Columbus, dated Segovia, August 15, 1494, asking certain information and informing him of an agreement with the Kingdom of Portugal.
30. Decree of King Ferdinand and Queen Isabella granting a coat of arms to Columbus. Dated June, 1494.
31. Letter from the sovereigns of Spain to Christopher Columbus congratulating him upon his return from his second voyage and requesting him to report to the court at once. Dated July 12, 1496.
32. Commission as Adelantado Mayor granted to Christopher Columbus by the sovereigns of Spain. Dated at Modina del Campo, July 22, 1497.
33. Letter from the sovereigns of Spain to Christopher Columbus about gold, pearls and other treasure obtained in the Indies. Dated March 30, 1497.
34. Will of Christopher Columbus conferring the right of succession upon his son, Diego. Dated Feb. 22, 1498.
35. Memorandum submitted by Christopher Columbus to the Council of the Indies concerning his arrest and imprisonment, and declaring his innocence of the charges made against him.
36. Letter from the sovereigns of Spain to Christopher Columbus containing instructions concerning his fourth voyage. Dated Valencia de la Torro, March 19, 1502.
37. Letter from Christopher Columbus to his Holiness the Pope of Rome. February, 1502.
38. Letters of Christopher Columbus to his son, Diego, dated Nov. 21, 1504; Nov. 28, 1504; Dec. 1504; Dec. 3, 1504; Dec. 13, 1504; Dec. 21, 1504; Dec. 29, 1504; Jan. 8, 1505; Feb. 23, 1505; Dec. 5, 1505. Memorial of Christopher Columbus to the sovereigns of Spain in behalf of his son Diego.
39. Letters from Christopher Columbus to the Rev. Father Don Gaspar Corresio de las Cuevas, dated April 4, 1502; Sept. 4, 1505; July 7, 1505; Jan. 4, 1506.
40. Letter from King Ferdinand V to Diego Columbus, dated Naples, Nov. 26, 1506.
41. Commission as Adelantado Mayor of the Indies. Granted by the sovereigns of Spain to Diego Columbus. Dated Valladolid, June 16, 1515.
42. Authenticated copy of the will of Diego Hernandez, who accompanied Christopher Columbus on several voyages. Dated 1536. This will was important evidence to sustain the claims made by the family of Columbus upon the crown of Spain.
43. Commission as Admiral of the Indies. Granted to Don Luis, the grandson of Christopher Columbus. Dated May 24, 1537.
44. Letter from the King of Portugal to Christopher Columbus. Dated Avis, May 29, 1488.
45. Ordinances issued by sovereigns of Spain to Christopher Columbus and the Court of Santo Domingo for the clearance of certain materials, 1497.

All of these documents are either written by Columbus himself or signed by Ferdinand and Isabella.

The Queen Regent of Spain will be represented at the Exposition by the Infanta Eulalia and her husband, Prince Antoine. The Spanish Cabinet has sanctioned their visit as representatives of the Queen Regent Christina. The Infanta Eulalia was born February 12, 1864 and is therefore 29 years of age. She was married to Prince Antoine, son of Prince Antoine d’Orleans, Duke of Montpensier, February 28, 1886. The Infanta Eulalia is the youngest sister of King Alfonso.

ST. THOMAS.

Dr. Charles E. Taylor, Commissioner.

The exhibit made by the Island of St. Thomas is a most complete relief map of the island. It is shown in the Department of Transportation Exhibits.

SWEDEN.

Mr. Artur Leffler, Royal Commissioner; Mr. Axel Welin, Secretary; Mr. Tom Bergendal, Special Commissioner for Manufactures; Mr. Carl Dellwik, Superintendent Swedish Section Machinery Hall; Mr. Robert Lindblom, Resident Commissioner; Baron Nils Posse, Special Commissioner for Tourist Department; Mr. Victor E. Rhodin, Official Commercial Representative; Mr. Gust. Wickman, Architect; Mr. Anders L. Zorn, Special Commissioner of Fine Arts; Mr. Erik Lundquist, Assistant Private Secretary.

The Swedish Building, which is located to the northeast of the Fisheries and between the lagoon and the lake, is one of the handsomest of all the foreign buildings. The space allotted Sweden was triangular in shape, and the building was made to conform to the space in order to utilize it to the utmost. A hexagon was inscribed at the center of the space, and there the main hall was located. In the three corners are rooms of considerable size. Galleries run around the building. The main hall is sixty-five feet across, and the pitch of the cupola, which rises above it, is seventy feet, and above the cupola is the spire. The Swedish flag is unfurled from the flagstaff above the spire 150 feet from the ground. The entire area of the floor is 11,000 square feet. The building was constructed in Sweden, where it was temporarily put together. Afterward it was taken apart and brought to Chicago. It cost $40,000. The design of the building is partly the product of the architect’s personal taste and fancy, but in working out the drawings he has to a great extent allowed himself to be guided by the style of Swedish churches and gentlemen’s houses of the sixteenth and seventeenth centuries. As far as possible the characteristics of old Swedish
MERCHANT TAILORS' BUILDING.

BUILDING OF SWEDEN.
architecture have been retained. The lower part of the front wall of the building forms an exhibit of its own, consisting of modern brick, terra-cotta, and cement work from the most prominent manufacturers of Sweden. The remainder of the building is entirely of wood, all the work being done by the Eskelstuna Iråforådingsaktiebolag in Sweden. Following the old Swedish fashion, the whole of the roof and the walls are covered with shingles. The outside of the woodwork is impregnated with a preserving liquid to prevent decay. The inside of the pavilion is painted in light colors and richly decorated with bunting, coats of arms and crests. A fine exhibit of the world-famed Swedish iron ore is made. A display of the manufactured products of iron, china goods and glass products are well represented in the pavilion. There is also a display of gold and silverware and wood pulp products. A further attraction is the excellent representation of a genuine Swedish home with beautiful suites of furniture and highly artistic drapery. Exactly opposite the main entrance of the building is a large picture of the capital of Sweden, "the Venice of the North," with its famous royal castle. Wax figures stand in front of this picture dressed in the picturesque garb of the Swedes, and to one side is a panorama of Swedish landscape, while the other side is occupied by a Swedish peasant's cottage. In the outdoor sports exhibit are skates, snow shoes, sleighs, canoes and yachts. A carefully executed bust of Gustavus Adolphus II has also been placed in this room. In the galleries are gathered exhibits illustrative of the school system, which are admittedly of the first rank. Embroideries and needle work displays attract lady visitors, who will also be pleased with the Swedish women's work in the Woman's Building under the patronage of her Majesty the Queen of Sweden and Norway. The office of the Chief Swedish commissioner, Mr. Arthur Leffler, is at the north end of the Swedish Building. Exhibits from the Scandinavian peninsula will also be found in the Agricultural and Machinery Halls and in the Fine Arts Gallery.

In the Department of Mines and Mining are exhibited specimens of iron ore, rock and fossil sections polished for microscopes, granite slabs, urns, columns and pedestals, marble, feldspar, cement, limestone, pig iron, furnace slag, shot, wire, steel, bar iron, maps, models and illustrations of mines and geological sections in Sweden.

Matches, organic and mineral acids, druggists' wares and supplies, ink, samples of ruling, type-setting and hand-printing, paper, books, picture frames, parquet floors, furniture, textile fabrics, porcelain, earthenware, brick and tiles, granite monuments and ornaments, brass and bronze ornaments, lamps, glassware, woodcarving, watches and jewelry, blankets and carpets, fur garments, linens, sewing machines, skins, laces and embroideries, artificial flowers, knitted goods, dolls, fancy articles of wood and leather, arms and ammunition, stoves, wire goods, iron, tools, sledges, cutlery, saws, anvils, builders' hardware, flags, etc., are shown in the Department of Manufactures.

SWITZERLAND.

Mr. James Perrenoud, Executive Commissioner; Mr. Arnold Holinger, Commissioner.

In the Manufactures Building the display of Switzerland is one of the most attractive. This exhibit is placed at the south end and is reached through an arch over which is the Swiss cross in bright red. All around the three sides of the square are pictures of the Swiss Alps. The pictures are done in colored crayons, are realistically beautiful and can hardly be told from oil paintings. They represent scenes well known to travelers. In the foreground of man of the scenes are shown pastoral scenes of the table-lands. The pavilions contain all of that rare handiwork for which the people are famous, and in one corner is shown a family of Swiss watch-makers, where every one down to the baby is at work. The baby's share of the work is done with its rattle. The delicate little wheels are put in the rattle with emery dust, and while the baby amuses itself by pounding the toy it polishes the wheels.
TRINIDAD.

Mr. Harry Vincent, Executive Commissioner.

The Island of Trinidad makes a collective exhibit in the Department of Agriculture. It is made up of agricultural products of the island, dye-woods, etc.

In the Department of Mines and Mining Trinidad makes a fine display of asphalt. Many tropical plants, such as palms, croton, etc., are shown in Horticultural Hall, and sugar, molasses, rum and cocoa are displayed in the Department of Agriculture. Cocoa is dispensed in cups at a mere nominal price to cover the cost of handling.

TURKEY.

Ibrahim Hakky Bey, Imperial Commissioner General; Ahmed Fahri Bey, Imperial Commissioner; Mr. Hohannes J. Pushman, Secretary; Mr. Z. J. Sweeney, Honorary Commissioner, Mr. F. D. Thompson, Honorary Commissioner; Capt. Mehmend Tevlik, Attache to Commission; Capt. Ahmed Sabit, Attache to Commission.

Turkey's principal exhibit is made in the Turkish building, which adjoins that of Brazil on the east and lies between the Fine Arts and Fisheries buildings. In this structure a miniature exhibit is made of the resources of the Ottoman Empire, consisting of twelve sections, in which are shown textile fabrics, gold, silver and other minerals, munitions of war, electrical appliances, antiquities, all the natural agricultural products, silks, dye-stuffs, and, in brief, small samples of nearly every industry of the country. Exhibits are also made in the Department of Manufactures, consisting principally of oriental rugs and filigree jewelry; in the Department of Transportation Exhibits, in which caiques, sedan chairs, bullock carts, etc., are shown, and in the Woman's Department, where embroideries made by the women of Turkey, are an interesting feature.

The Turkish Building is in the Moresque style and is in imitation of the Hunkhar Casque (or fountain) of Sultan Ahmed III, which is opposite the Babi Humayon in Constantinople, and which corresponds with the capitol at Washington, the seat of government. The structure is eighty by one hundred feet in dimensions and is surmounted in the center by a dome. There are also smaller domes at each of the four corners. The exterior is covered in Damascen carved wood, made specially in Damascus and brought here for the purpose. The interior is a large exhibition hall, decorated with tapestries. There are small exhibition rooms in each of the four corners, and the office of the commissioners is in a separate building to the rear of the main building.

URUGUAY.

Senor Don Prudencio de Murguiondo, President; Don L. Rodriguez Diez, Special Commissioner; Don Alberto Gomez Ruano, Commissioner; Dr. Don Eduardo Chucarro, Commissioner; Don Ricardo Hughes, Commissioner.

The government of Uruguay appropriated $24,000 for Exposition purposes, which, considering its financial condition, was remarkably liberal. A fine exhibit of wines, agricultural products, and articles of manufacture was gathered together. Space was secured in the Agricultural Building and a fine exhibit of the products of that country is made.

VENEZUELA.

Dr. Francisco E. Bustamante, E. E. and M. P., President ad honorem; Dr. David Lobo, Secretary of Legation; Dr. Manuel Vicente Toledo, Commissioner; Mr. J. M. Larrafa, Commissioner; Mr. Jacinto Lopez, Commissioner; Dr. H. Rivero Saldivia, Consul General, Counselor; Mr. J. A. Sanchez, Commissioner ad honorem; Mr. A. S. Baker, Commissioner ad honorem; Mr. Manuel Cadenas, Commissioner ad honorem; Dr. A. Ernst, In charge of relics, etc., Foreign Affairs Department.

The building of the Republic of Venezuela occupies a space of 284 square meters, and is divided in three parts. The central part is square, 36x36 feet and the two wings on each side are 21x30 feet, which makes an entire frontage of 78 feet. It is crowned by a dome in iron and glass, 30 feet in diameter and 12 feet high which makes the building 45 feet high. The two side parts are also crowned by a dome with four sides. On the left tower a statue in bronze of Columbus has
BUILDING OF TURKEY.

BUILDING OF VENEZUELA.
been placed, and on the right, one of Bolivar. Both these statues are nine feet high, and weigh 2,000 pounds each. The interior of the building is richly decorated with drapings and vellum, and contains show cases, reception and toilet rooms, etc. The architecture is in the style of a Græco-Roman temple, finished in imitation marble. There are six entrances, three in the front and three in the rear. The principal side faces the main entrances to the Fisheries Building, surrounded by a pretty garden with tropical plants imported for the occasion. Exhibits from Venezuela may be seen in the departments of Agriculture, Horticulture, Mines, Manufactures, Liberal Arts, and Fine Arts, consisting of leather exhibits, relics of scientific treatises of medicines, and mementoes of home glories, such as the sword of Bolivar, flag of Pizarro, etc.
UNITED STATES GOVERNMENT EXHIBIT.

Board of Management and Control of the United States Government Exhibit: Mr. Edwin Willits, Chairman; W. E. Curtis, Department of State; Allured B. Nettleton, Treasury Department; Major Clifton Comly, U. S. A., War Department, Captain R. W. Meade, U. S. N., Navy Department; A. D. Hazen, Post Office Department; Horace A. Taylor, Department of the Interior; Elijah C. Foster, Department of Justice; Edwin Willits, Department of Agriculture; Professor G. Brown Goode, Smithsonian Institution and the National Museum; Tanleton H. Bean, United States Fish Commission.

In accordance with the Act of Congress, approved April 25, 1890, the Executive Departments of the United States Government make an interesting and creditable display, under the auspices of a Board of Management and Control, composed of governmental officials appointed from the several departments. A magnificent building has been erected for these collective exhibits. It is located near the lake, south of the main lagoon and of the area reserved for the foreign nations and the several States, and east of the Woman's Building and of Midway Plaisance. It is classic in style, and bears a strong resemblance to the National Museum and other government buildings at Washington. It covers an area of 350 by 420 feet, is constructed of iron, brick and glass, and cost $450,000. Its leading architectural feature is a central octagonal dome 120 feet in diameter and 150 feet high. The building fronts to the west, and connects on the north by a bridge over the lagoon, with the building of the Fisheries exhibit.

The south half of the Government Building is devoted to the exhibits of the Postoffice department, Treasury department, War department, and Department of Agriculture. The north half is devoted to the exhibits of the Fisheries Commission, Smithsonian Institution, and Interior department. The State department exhibit extends from the rotunda to the east end, and that of the Department of Justice from the rotunda to the west end of the building. The allotment of space for the several department exhibits is; War Department, 23,000 square feet; Treasury, 10,500 square feet; Agriculture, 23,250 square feet; Interior, 24,000 square feet; Postoffice, 9,000 square feet; Fishery, 20,000 square feet, and Smithsonian Institution, balance of space. The departmental exhibits are as follows:

Treasury Department.—This department contributes elaborate exhibits, illustrative of the functions of:
The Coast and Geodetic Survey.
The Office of Weights and Measures.
The Bureau of Internal Revenue.
The Bureau of Engraving and Printing.
The Bureau of Statistics.
The Light-House Board.
The Life Saving Service.
The Mint.
The Marine Hospital Service.
The Office of the Register of the Treasury.
The Supervising Architects' Office.

Of the so-called scientific bureaus now maintained by the government, the coast-survey is the oldest. Organized as it was in the early part of the present century, its growth has been in a measure parallel with that of the country, and aside from the actual value of the results of its operations from a practical standpoint, it is admitted by all to have exercised a powerful influence in virtue of its experience, and the high character of its performances, upon the wonderful scientific development which has taken place in the New World.
The office of Weights and Measures exhibits sets of the customary and metric weights and measures; balances of precision; copies of the international prototypes of the meter and kilogram; comparators; 100-foot bench standard.
The Bureau of Internal Revenue exhibits historical and current collections of all stamps and brands used in the service; gauging instruments and hydrometers; instruments used in test-
ing for oleomargarine; a chemical laboratory to illustrate methods of testing for foreign fats used in oleomargarine andlard compounds; polariscopes, balances, and other instruments used in determining sugarbounties; set of Dutch standards.

The Bureau of Engraving and Printing exhibits specimens of engraved portraits and vignettes; of all bonds and other securities issued by the United States; of all notes and certificates, from the blank sheet to the finished product; illustrations of the improvement in bank note engraving from the earliest efforts to the date.

The Bureau of Statistics has prepared charts illustrative of the national progress in population, wealth and material products.

The Mint displays presses in operation striking off medals of white metal or copper bronze, and acollection of coins and medals.

The Marine Hospital Service displays a model hospital ward with all its appliances; dispensary outfit; model operating rooms; illustrations of modern methods of hospital construction, lighting, heating and ventilation; model and photographs of quarantine stations; illustrations of typical quarantine plant, consisting of wharf for discharge of ballast, fumigation wharf, disinfecting chambers and sulphur furnace, detention barracks, lazaretto, hospital for noncontagious diseases, boatsmen's and attendants' quarters and surgeon's residence; steam disinfecting car used in interstate quarantine, apparatus used in house-to-house disinfection; model of camp probation; set of sanitary reports received from counties in all parts of the world; reports showing the relations of the bureau to all the States of the Union; sanitary publications of the bureau and of the different States; illustrations of the laboratory work of the bureau in its efforts to discover the origin of and remedies for disease; microscopes and slides showing all known disease germs; illustrations of color-blindness and of recruits for the Revenue Marine Service as well as the work of the bureau in connection with the Immigration Bureau.

The Register of the Treasury displays all classes of certificates, bonds, notes, fractional currency, coupons and other evidences of indebtedness covering a period from the Declaration of Independence to the last bond or note issued by the United States Treasury; all of which, except the notes and the fractional currency, are found in the files of the Register's Office, canceled, but in fair condition; Confederate bonds, notes, and fractional currency also from the files of the Treasury Department; Continental and Colonial currency; charts showing public debt and interest from the foundation of the United States Government to the present time; public debt warrants and drafts, two in number, aggregating over $281,000,000 (the largest ever issued); civil appropriation warrants with autographs of all the Secretaries of the Treasury from Hamilton to Carlisle, inclusive; pay warrants and drafts, issued on account of salary, with autographs of the President of the United States from 1822 to the present time (all prior to 1822 having been destroyed by fire in 1833) and a variety of autographic papers of historical characters.

The Supervising Architects' office makes an elaborate display of drawings and photographs of public buildings, planned and constructed under its supervision.

War Department.—This department displays:

From its Bureau of Engineers, the published maps and reports of the bureau; models of the bridge equipment, accompanied by a full size section of the bridge; torpedo cases, connections, batteries, etc. (such as are not considered secret); models of forts and of river and harbor improvements; photographic enlargements of light-houses, forts, and river and harbor improvements.

From its Ordnance Department, machines, in operation, for the manufacture of metallic ammunition; machines in operation showing improved features connected with the fabrication of the Springfield rifle; a historical collection of small arms, with an illustration of the present modes of fabrication; samples of service projectiles, showing method of construction of equipments and accoutrements for the various arms of the service; field guns; siege guns; mortars; howitzers and shell guns; rifles; match and a black powder, percussion and flint, and a 12-inch seacoast steel mortar, mounted upon depressing carriages; all kinds of rapid fire and machine guns used in the army; machines for determining ballistic properties of guns and powders; illustration of the method of taking ranges, etc.; illustrations of the devices which have been employed in the forts to fire high explosives from guns; one pneumatic dynamite gun; testing machines to determine the properties of metals; illustrations of the different phases in the construction of a built-up gun.

From the Quartermaster's Department, lay figures, mounted and dismounted, in the uniform of all grades of the service, the same illustrating the clothing and equipment issued from the Quartermaster's Department; complete sets of national colors, standards and guidons; specimens of all kinds of standard supplies issued by the department; illustration of the means of transportation; model of national cemetery, a military post, and of a quartermaster's depot.

From the Medical Service, a complete set of hospital and medical supplies, with such other articles as are furnished for scouting expeditions; surgical instruments and apparatus; record books used in the Medical Department of the United States and other armies; illustration of the surgical instruments, medical and surgical models, photographs and phases of military hospitals; apparatus for physical and anthropometrical measurements; illustrations of the microscopical work which is being done in the Army Medical Museum; a special exhibit of anatomical preparations, normal and pathological; a selected series of crania and of craniometrical instruments; photographs of specimens of pathological anatomy; a set of publications of the Surgeon-General's Office.

From the Signal Corps, a historical exhibit illustrating the more important achievements of the corps, and indicating lines of progress followed and advances made. The semi-permanent
flying telegraphic lines, with the methods of operation; the field telephone kit; a signal station with its equipment in operation; a captive balloon train; an artistic centerpiece illustrative of the fact that our flag has been carried further north than that of any other country.

**Smithsonian Institution and National Museum.**—This institution contributes:

From the Smithsonian Institution, illustrations of its growth, aims, and the scope of its work during the forty-seven years of its existence; illustrations of the history of American science and exploration of the numerous scientific institutions and societies of this country; of the explorations by our own and foreign governments, and of individuals; portraits of representative scientists associated with American scientific development.

From the National Museum, objects illustrative of the natural resources of this country and their utilization, so far as the subject is not covered by other branches of the government or by individual exhibitors; groups of larger quadrupeds now becoming extinct; groups of mammals of the United States, illustrating peculiar habits and environment; group illustrative of the life and history of the fur seal; each species and subspecies of bird found in this country, illustrative of geographical variation, the confusion of popular names, the peculiar habits; casts of reptiles and batrachians; dislocated skeletons and parts showing families and sub-families of vertebrates; models and specimens of unfamiliar lower forms; of animal life; fossil animals for comparison with later forms; methods and implements of the chase primitive and modern; illustrations of the assistance rendered to man by various animals; useful products of the animal kingdom and methods of preparation; models illustrative of the phenomena of volcanoes, earthquakes and glaciers, and forward effects and destruction of water; illustrations of primitive nations with a complete series of crude and polished gems; an anthropological display, showing racial characteristics, and progress in the arts of civilization; illustrations of pre-historic races, with implements of stone, bronze and iron, showing early stages of industrial development; illustration of distribution of primitive races; the whole illustrative of modern museum methods of work.

From the Bureau of Ethnology, illustrations of the life and habits of North American Indians, differentiating the principal linguistic stocks, showing marked characteristics; photographs and transparencies showing actual surroundings, supplemented by collections of their manufactured wares.

In general the museum makes displays of certain selected arts illustrative of development and of museum methods of treatment, such as transportation, the construction of dwellings, the utilization of wind, river currents, steam and electricity.

**Department of Justice.**—This department's exhibit consists largely of such historical documents and articles of interest as are culled from the files, records, and possessions of the courts of the United States. Justice, as a governmental function, does not readily materialize in "artifacts" adapted to Exposition purposes, yet the governmental display would be incomplete without an "appearance" at least from this among the displays of the other executive departments. The exhibits, though comparatively small in number and occupying a relatively small space, are of great interest to lawyers, and under the head of installation are displayed portraits of the eminent jurists who have filled the chair of attorney-general.

**Naval Exhibit.** This exhibit is made outside the United States Government Building. A structure, which, to all outward appearance is a full-sized modern battle-ship, has been erected on pilings on the lake front in the northeast portion of the grounds. It is surrounded by water and has the appearance of being moored to a wharf. The structure has all the fittings that belong to the actual ship, such as guns, turrets, torpedo tubes, torpedo nets and booms, with boats, anchors, chain cables, davits, awnings, deck fittings, etc., together with all appliances for working the same. Officers, seamen, mechanics and marines are detailed by the Navy Department during the Exposition, and the discipline and mode of life on our naval vessels are completely shown. The detail of men is not, however, as great as the complement of the actual ship. The crew gives certain drills, especially boat, torpedo, and gun drills, as in a vessel of war.

The dimensions of the structure are those of the actual battleship, to-wit: length, 348 feet; width amidships, 69 feet 8 inches; and from the water line to the top of the main deck, 12 feet. Centrally placed on this deck is a superstructure 8 feet high with a hammock berthing on the same 7 feet high, and above these are the bridge, chart-house, and the boats.

At the forward end of the superstructure there is a cone-shaped tower, called the "military mast," near the top of which are placed two circular "tops" as receptacles for sharpshooters. Rapid-firing guns are mounted in each of these tops. The height from the water line to the summit of this military mast is 76 feet, and above is placed a flagstaff for signaling.

The battery mounted comprises four 18-inch breech-loading rifle cannon; eight 8-inch breech-loading rifle cannon; four 6-inch breech-loading rifle cannon; twenty 6-pound rapid-firing guns; six 1-pound rapid-firing guns; two Gatling guns, and six torpedo tubes or torpedo guns. All of these are placed and mounted respectively of in the genuine battleship.

On the starboard side of the ship is shown the torpedo protection net, stretching the entire length of the vessel. Steam launches and cutters ride at the booms, and all the outward appearance of a real ship of war is imitated.

The superstructure shows the cabins, staterooms, lavatories, lactorines, messrooms, galley, and fittings, mess-table for crew, lockers, berthings, etc.; also the manner in which officers and enlisted men live, according to the rules of the Navy. On the superstructure deck and bridge is shown the manner in which the rapid-firing guns, search lights, beacons, etc., are handled. The
entrance to the conning tower is from the deck, in which are all appurtenances that the captain has at his disposal when taking the ship into battle and during the progress of a fight at sea.

An electric light plant is installed and provision made for heating with steam. On the berth deck are shown the various fittings pertaining to the hull, machinery and ordnance; ordnance implements, including electrical devices, gun-carriage motors and range finders; models showing typical ships of the past and present; samples of the provisions, clothing, stores and supplies, bunting, flags, etc.; in short, the thousand and one things that go to make up the outfit of a man-of-war.

The traditional costumes of the sailors of the Navy from 1775 to 1848 are shown by men dressed in those costumes.

Postoffice Department.—As in all previous Expositions in which it has taken part, the Postoffice Department has established in its space a working postoffice, so arranged that it will at the same time serve all the purposes of a postoffice for the Exposition, and afford an opportunity to visitors to study the interior workings of a model city postoffice. In addition to this a display is made of all articles of postal equipment, postage stamps, stamped envelopes, etc., to which is added a collection of curious articles of mail matter which have accumulated in the Dead Letter Office. A new feature of the display are articles which have been sent during the past three years, in compliance with an invitation from the postmaster-general, by postmasters, and others, consisting of relics, curiosities, etc., pertaining to the postal service. Another feature of the departmental exhibits are articles contributed or loaned by foreign postal administrations, illustrating the postal service in the respective countries from which they are received.

From the postoffice twenty-five carriers deliver letters, and there is a force of twenty-five clerks to handle the business. This does not include the railway postoffice clerks who throw letters and papers in the mail car that stands north of the postoffice. One hundred and fifty letter boxes have been placed around the grounds and in the Plaisance, each State and government building having a box. The postoffice is a branch of the Chicago postoffice. It shows the workings of a postoffice of the first-class, including the operations of the inquiry, stamp, money order, registry, general and carriers' delivery departments. The mailing division, where outgoing mail is handled, occupies the north half of the space, and the city division for incoming mail the south part. In the gallery are the offices for Gen. Hazen, third assistant postmaster-general, and Superintendent Hastings. The outgoing mail collected by the carriers is brought through doors on the west side of the office and dumped onto the pickup table in the north end of the mailing division. Six stamping machines grouped around cancel the stamps, and the letters are put through a rough separation by States in a case that stands south of the pickup table. Six clerks working before three double distributing cases south of the State case make up the mails for routes and pouch it for the railway mail cars. The opening table on which the incoming mail is back-stamped stands beneath the gallery. Carriers take it from this table to the tenant double cases where the mail is made up into routes for delivery through the different buildings. The furniture is so arranged that spectators looking through the glass screen can easily see every phase of postoffice work. The screen is a handsome piece of cabinet work. It is made of quartered oak paneled in deep squares. The grill work is of bronze, and the glass is of fine beveled plate. A series of etched designs on the glass depicts the evolution of the mail service. An old-fashioned six-horse mail coach and a post boy represent the early days of the service. Well-executed pictures of an ocean greyhound, a modern railway mail car, a sound steamer, a mail wagon and a mail carrier with his pouch bulging with letters portray themail-handling facilities of to-day. The railway mail car "Benjamin Harrison" stands just north of the gallery, and south of it the "Columbia." The engine of the car contains plate glass permitting the interior to be seen. It is manned with a full crew of railway mail clerks, who show how letters and papers are handled at the rate of sixty miles an hour. It is a beautiful specimen of car-building, seventy feet long and equipped with the very latest appliances.

The Postoffice Department is one of the most popular branches of the government. It extends its operations through the length and breadth of the land, and ministers to the business and social concerns of every citizen. The number of postoffices now in operation is more than 68,000; the length of the post routes is about 432,000 miles, and nearly 570,000,000 miles of mail service are now performed annually. The space occupied by the Postoffice Department comprises an area of 15,082 square feet, of which 12,223 feet are on the ground floor, and 2,860 feet in the gallery just overhead.

Among the other exhibits of this department are:

Model of a postal car on scale of ten feet, complete, furnished.

Model, twelve feet in length, of United States ocean mail steamship "Paris.

Model, seven feet in length, of ocean mail steamship "Columbia," representing the first mail steamship built in the United States.

Model, three feet in length, of mail steamboat in use in carrying the mail on the Oklawaha river, Florida.

Full size Concord mail coach, new.

Old Concord coach in early and present use in carrying the mails in Montana. This coach was once captured by Indians and regained by General Howard. Among its passengers have been two presidents of the United States, a secretary of war, and General William T. Sherman, on tours of inspection.

Wagons for delivery and collection of mail matter in cities. Uniformed model of post rider mounted on horseback.
Snow-sledge (drawn by three dogs), carrying United States mail, with model of Indian runner on snow-shoes. The dogs, whose skins are used in this display, were recently in actual service.

Model of special delivery messenger in uniform, mounted on bicycle in motion.
Uniformed model of letter-carrier.
Uniformed model of railway mail clerk.
Framed collection of United States mail bags in present and former use.
Framed collection of United States mail locks and keys in former and present use.
Twenty-six mounted post-route maps, showing extent and character of mail transportation, frequency of trips, etc., throughout the United States and Territories.
Map of the world showing lines of ocean mail service between the United States and foreign countries.
Street letter boxes for the deposit and collection of mail matter.
Canceling machines in use in large postoffices for post-marking mail matter and canceling stamps in same. In motion by means of electricity.
Framed collection of post-marking and canceling stamps in general use in postoffices.
Colored models illustrating the growth of the various branches of the postal service of the United States.
Statistical charts showing the growth and development of the various branches of the postal service.
Statistical chart showing magnitude of the postal service of the United States as compared to that of leading foreign countries.
Framed sample of supplies in use in the postal service of the United States.
Six large printed articles taken from the museum of the Dead Letter Office at Washington. This collection comprises about one thousand articles of unique and curious character, found in the mails and undeliverable to the senders or addresses. The Dead Letter Office exhibits have always been a source of great interest to visitors to the National capital.
Framed collection of all the adhesive postage stamps issued by the Postoffice Department since 1847 when the stamps were first introduced in the United States. The display is enclosed in a handsome and elaborate frame eleven feet in length by nine feet in height. The stamps are beautifully arranged, and with fine display of engraving and coloring—sufficient numbers of each kind and denomination having been used to produce the best effects.
Collection in five frames of the stamped envelopes issued by the department since 1858, the date of first issue.
Framed collection of specimens of all the postal cards of the United States issued from 1874 (date of first issue) to 1893.
Framed collection of portraits of postmasters-general and assistant postmasters-general of former times.
Framed collection of veterans of the postal service. This collection embraces nearly eighty persons now engaged in various positions throughout the country, and whose terms of service range from thirty-five to sixty-five years.
Large collection of framed photographs of postoffices in the United States.
Framed collection of pictures of natural scenery on the railway mail lines of the United States.

A special feature is an exhibit made under the direction of the Postoffice Department by the American Philatelic Association of specimens of the postage stamps, stamped envelopes and postal cards of all nations. The collection is an unusually complete one, and embraces some 50,000 stamps representing the most rare and costly articles of the kind known to the stamp-collecting fraternity. The stamps are tastefully mounted on sheets and inclosed within handsome showcases especially provided for the purpose. The display is located in the gallery overlooking the general postal exhibits, and it occupies about 1,600 square feet of floor space.

The postal exhibits of this country are supplemented by a display of somewhat corresponding articles contributed for the purpose by a large number of foreign postal administrations in response to an invitation extended by the Postoffice Department of the United States to participate in the display. Among the principal countries contributing more or less full lines of articles of postal nature are Great Britain, and dependencies (embracing Canada, India, New Zealand, Newfoundland, South Australia, Straits Settlements, Tasmania, Victoria, Bahamas, British Honduras, Windward Islands, Western Africa, Fiji Islands, Cape Colony, British Guinea, and British West Indies); Germany, France, Austria, Denmark, Belgium, Sweden, Portugal, Mexico, Switzerland, Japan, Egypt, Java, Tunis, Nicaragua, San Salvador, Hawaii and Liberia. In addition to the foregoing, many countries have sent merely collections of their postage stamps, stamped envelopes and postal cards. The foreign display is grouped separately from that of the United States.

Aside from the attraction which the display of postal articles of foreign countries may prove to visitors, it will afford the opportunity for examining and contrasting the methods employed by different postal administrations, and thereby serve to confirm the value of existing conditions, or to suggest improvements that will greatly benefit not only this country but the world at large.

On the whole, the display of the Postoffice Department is an exceedingly interesting one, and represents by far the most extensive and valuable collection of postal articles ever gathered together.
Department of Agriculture. The general work of preparing a suitable exhibit illustrative of the functions of this department was under the charge of the assistant secretary. The extent and variety of the contributions of this department are as follows:

From the Museum: Specially prepared displays of selected cereals, tobacco, and animal and vegetable fibres, illustrating distribution, the effects of transplantation, of changes of soil, climate, and altitude, and illustrative as well of departmental methods of study and treatment.

From the Bureau of Animal Industry: Illustrations of the parasites of animals; of the work of quarantine stations; of the processes of meat inspection; of transportation of live animals and meat; tanning; the handling of live stock; horseshoeing, and the diseases incident to defective shoeing; the work of the department in connection with animal diseases, and disease germs from the bacteriological laboratory.

From the Weather Bureau: A complete set of meteorological instruments in operation. The entire work of forecasting, from the receipt of telegrams to the publication and distribution of weather maps, will be carried on upon the grounds, in the presence of any one who may care to study the methods of the bureau, and the various processes will be explained, with a view to the popularization of meteorological knowledge.

From the Division of Entomology: Collections and models of insects injurious and beneficial to agriculture, enlarged illustrations of their operations, and implements and materials of suppression and culture.

From the Division of Ornithology and Mammalogy: A large model of the Death Valley region, where altitudes varying from several hundred feet below to 15,000 feet above sea level are in such close proximity as to disclose at a glance all the life zones of the country, animal specimens and groups characteristic of these life zones; birds and mammals beneficial or harmful to the farmer.

From the Botanical and Horticultural Divisions: Collections, growing and preserved, of medicinal, forage, and other economic plants, with cases illustrating herbarium methods of work and treatment.

From the Division of Forestry: A classified collection of sections of forest trees of the United States, with demonstrations of their economic uses; apparatus for testing the strength and other qualities of timber; illustrations of methods shown by experience to be best adapted to forest culture; metal railway ties advocated as a substitute for timber, and whose adoption would serve powerfully to protect our remaining forests from destruction.

From the Division of Chemistry: A complete agricultural laboratory, in which demonstrations of food adulteration, the saccharine value of sugar plants, and analyses of soils will be carried on; samples of adulterated foods which have been tested by the department.

From the Division of Statistics: Charts and maps illustrating the values of agricultural products, the range of prices, and the distribution of staple products; blanks and materials illustrative of the statistical methods of the department.

From the Division of Microscopy: A collection of models of fungi, edible and poisonous; models of fungi which attack forest and other trees; articles, instruments, methods, and results of investigations of adulterations of butter and other commercial fats.

From the Division of Vegetable Pathology: Models and drawings illustrative of fungous diseases of fruits and fruit trees; remedial agents, implements, and methods of protection, cure and eradication.

From the Division of Pomology: Models of American fruits, illustrating differentiation due to transplantation; classified exhibit of edible nuts; illustrations of methods of planting and cultivating small fruits.

From the Office of Experiment Stations: Illustrations of its methods of editorial work, and of summarizing the reports of stations.

From the Division of Records and Editing: A complete set of the publications of the department arranged for consultation, and a "bureau of information."

From the Division of Illustrations: The original plates and figures used in the reports and bulletins of the department, illustrating the care and skill demanded in the preparation of these publications.

Department of State.—To illustrate the functions of the Department of State effectively it is considered in two aspects: First, it is the medium through which our governmental affairs with foreign powers are conducted, and is also entrusted with various domestic affairs. Second, it is the repository of the historical archives of the nation, and may be considered the bureau of American history.

Taking up the first of these divisions, the workings of each bureau of the department are shown by means of blanks, sample letters, circulars, etc. The first of these displays shows how the Diplomatic Bureau, through which the correspondence with our embassies or legations, and the embassies or legations of foreign powers in the United States, transacts its business.

The second display shows how the Consular Bureau, the medium of correspondence between the home government and the consular corps of the United States, is conducted.

The third display shows the workings of the Bureau of Statistics, which edits and issues the reports from our consuls abroad, relating to the trade of their respective districts, and the avenues open for the introduction of American merchandise or raw products.

The fourth display illustrates the workings of the Bureau of Accounts, the intermediary through which the financial affairs of the department are conducted and the agency through which the law books of the United States are sold.
The fifth display illustrates how the correspondence of the department is indexed and how the records and archives are preserved, these being the functions of the Bureau of Indexes and Archives.

The sixth display relates to the Bureau of Rolls and Library, in which are deposited the historical records, where the laws of the United States are prepared for the printer, and where the original laws are finally deposited, and where the books and periodicals constituting the department library are kept. This bureau also distributes the department publications except consular reports.

The seventh display illustrates the workings of the Bureau of Commissions and Pardons, where the commissions of the executive officers of the government who constitute the President's cabinet are made out, and where Presidential pardons to criminals convicted before the courts of the United States are written and recorded. In this bureau the seal of the United States is deposited and the method of affixing it to public instruments is illustrated.

The eighth display is of the Department of State, and shows how passports are issued to Americans travelling abroad. The seal of the Department of State is in this bureau and an impression of it is shown here.

The ninth display shows the workings of the mail division and how communications to embassies, legations and consulates are sent.

These exhibits are followed by a shelf of books, containing sample volumes of every class of publication issued by the Department of State both in the past and at the present day; and a striking spectacle of the treaty laws of the United States and illustrates the part which the department has played in it, and what papers are deposited there relating to the time before the department was in existence.

Beginning with the Declaration of Independence, the original of which is in the custody of the secretary of state, an exact photographic reproduction is shown. Underneath it is the draft of the instrument in Jefferson's penmanship, and to accompany it are relics of Jefferson, and his portrait after the original by Wilson Peale. Surrounding the declaration are pictures of the following members who signed it: John Adams, Richard Henry Lee, Thomas Jefferson, William Floyd, James Hewes, Elbridge Gerry, Samuel Chase, Samuel Huntington, Samuel Adams, Thomas McKean, Charles Carroll (of Carrollton), Thomas Heyward, Jr., Francis Hopkinson, William Paca, Robert Treat Paine, George Ross, Benjamin Rush, George Read, Edward Rutledge, James Wilson, Roger Sherman, Thomas Stone, Philip Livingston, Francis Lewis, Arthur Middleton, Thomas Lynch, Jr., Josiah Bartlett, George Clymer, Lyman Hall, George Wythe, Oliver Wolcott, Lewis Morris, John Hancock, Robert Morris, Benjamin Franklin and John Witherspoon.

Here, also, are shown, and a printed copy of the declaration, as it was issued July 5, 1776, besides a copy of it as it appeared in the Connecticut Gazette a short time afterward.


The early history of our government is further elucidated by letters of Benjamin Franklin and Franklin relics, by a portrait of George Washington, his writings and various Washington relics. Here, also, is exhibited a bronze equestrian statuette of Washington, by Baron Machetti, from the original study and model by his master, M. Houdon, of Paris, in 1785-90, for an equestrian statue, which, according to Thomas Jefferson, then minister to France, was sent to America by Houdon with the expectation of receiving an order from the Congress of the United States to have it cast in bronze. The model was destroyed by fire in Washington, leaving this statuette as the only survival. Relics and portraits of several of Washington's generals are shown, notably the sword voted by Congress to his aide-de-camp, Colonel Tench Tilghman, as the messenger who bore to Philadelphia the announcement of the surrender of Lord Cornwallis at Yorktown, and the sash of General Lafayette which was used to bind the wound he received at the battle of Brandywine, September 11, 1777.

The Revolutionary period is also illustrated by the original treaty of friendship and alliance with France, signed February 6, 1778, by pictures of Louis, the French king, of Count de Vergennes, his minister, through whom the negotiations were conducted, and by letters of Silas Deane, Arthur Lee, Ralph Izard and a few others, our early ministers abroad. There are also numerous letters of Louis.

To mark the close of the Revolution the treaty of peace with Great Britain is shown and a photograph of the painting of the signing.

After the formation of the government under the constitution, the expansion of the terri-
tory of the United States under various treaty provisions is shown by seven different maps, and five maps demonstrate the growth of our consular and diplomatic representation abroad.

The treaty purchasing the Louisiana territory from the government of Napoleon Bonaparte is illustrated by a portrait of Barbé Marbois, the negotiator on the part of the French government and by writings of Robert R. Livingston and James Monroe, the plenipotentiaries on the part of the United States. An oil portrait of Monroe is shown.

The treaty of peace with Great Britain which terminated the War of 1812 is illustrated by oil portraits of Henry Clay and John Quincy Adams, as well as by their writings and the writings of James A. Bayard, Jonathan Russell and Albert Gallatin, the other American plenipotentiaries. Other treaties of importance are shown, notably those from powers of the far East.

As proclamations are issued through the Department of State several original ones are displayed. There is an early Thanksgiving Proclamation of George Washington, the Nullification Proclamation of Andrew Jackson, accompanied by several Jackson relics, a portrait of John C. Calhoun and writings of Edward Livingston, Secretary of State when the proclamation was issued.

The Emancipation Proclamation of Abraham Lincoln accompanies his life-sized portrait, which is set off by a silk woven flag presented to the United States January 17, 1866, by the weavers of Lyons, as a durable expression of their sympathy at Lincoln’s death.

A large number of letters of a ceremonial character from foreign sovereigns and presidents to the President of the United States are displayed. They include letters of historical interest and one from each head of government at the present day.

The history of the development of the present device for the American seal and coat of arms is shown by illustrations taken from the original designs, and a large emblazoned reproduction of the arms.

The International American Conference, held under the auspices of the Department of State in 1889, is called attention to by portraits of the delegates; and copies of the various reciprocity treaties that have been entered into are displayed.

EXECUTIVE MANSION.—The first case in the Department of State compartment is devoted to a simple showing of the workings of the office of the President of the United States. These are illustrated by a few blank forms, by the President’s seal, and by the engraved cards used in official entertaining.

BUREAU OF THE AMERICAN REPUBLICS.—In the east gallery of the Government Building, which is reached by double stairways on either side of the eastern entrance fronting the lake, is the exhibit of the Bureau of the American Republics at Washington, made under the auspices of the Department of State.

The Bureau of the American Republics is an institution maintained at Washington by the nineteen independent nations of the American continents, "For the Prompt Dissemination of Commercial Information". It was established upon the recommendation of the recent International American Conference for the purpose of making known to the world, and particularly to the people of the United States, the resources, industries, progress and commercial advantages of the Republics of Mexico and Central and South America. Its headquarters are at No. 2 Lafayette Square, Washington, D. C., and its Director is William E. Curtis. The Bureau publishes an annual Handbook of the American Republics; a series of handbooks of each of the nations; commercial descriptions of the individual cities for use of manufacturers and merchants; the tariff laws, import duties and customs regulations of the several countries, and frequent bulletins containing useful information for the benefit of those who desire to engage in trade with the other American Republics. It also answers specific inquiries concerning commercial matters.

Its exhibit is devoted to the illustration of the condition, resources, customs, industries and commerce of Mexico, Central and South America and the West Indies. Added to this is a special commercial exhibit, showing the articles of import into Latin American countries, their prices, popular patterns of goods, samples of implements in demand there, and the methods of packing for transportation into the interior of the countries when there are no railways.

The countries included in this classification are Mexico, Guatemala, Honduras, Salvador, Nicaragua, Costa Rica, Columbia, Venezuela, Ecuador, Peru, Bolivia, Chile, Argentine Republic, Uruguay, Paraguay, Brazil, Santo Domingo and Hayti, British Guiana and the West Indies generally.

By means of a profusion of enlarged photographs, drawings and paintings, a glimpse of those countries is given the observer. Beginning with Mexico, these pictures represent the features of each country, its native population, its architecture, etc., from the Rio Grande to Cape Horn. Many photographs and paintings show the peculiar costumes and customs of the people, how they eat, sleep, work and amuse themselves at their national games, and finally how they dispose of their dead, with the peculiar methods of sepulture, tombs and monuments.

Particular attention has been paid to the elaboration of everything distinctive in the life of the Central and South American people in order to familiarize residents of the North with their distinguishing characteristics. A prominent place has been given to articles of food supply, with the methods of preparation and use. Under these come the indigenous cereals, fruits and vegetables; their cultivation, irrigation and harvesting and the storing of crops. The processes of raising and curing coffee, with pictures of machinery used for pulping, drying and cleaning the berries. The same with sugar. The ancient and modern systems are fully illustrated, from the primitive "bull-mills" in use by the natives to the great establishments of the Island of Cuba.
It is well known that these countries are deficient in the mechanical arts and their application, and in order to show what they need and what can be supplied from the United States the various trades and professions are presented, illustrating the proficiency of the natives in every branch. Education and religion and the status of the people in these matters are indicated by photographs of schools and churches, shrines and chapels, and articles used in religious ceremonials.

Of special value in this connection are the photographs illustrating transportation facilities, or the lack of them, such as native carts, trucks, sillas, and vehicles adapted to districts where there are no regular roads; also mule-trains, llamas, and other native beasts of burden. Roads and bridges are also illustrated, ancient and modern, as well as those improvised on the spur of necessity, and the hammock bridges in the mountains, constructed of vines and cables. Navigation is represented by photographs of canoes, balsas, etc., with their equipments. Modern railroads and the character of their equipment, tunnels, viaducts, and tramways and the systems in use.

There are many magnificent photographs illustrating the physical features of the countries, such as the great mountains and volcanos of Popocatepetl, Ixtacihuatl, Chimborazo, Acaucagua and the higher peaks of the Andean chain, with the rivers, valleys, plateaus, coasts and harbors. Also, illustrations of the most notable examples of architecture, the cathedrals, churches, theatres, city halls, country residences and plantation houses.

Incidentally the history of the countries is exemplified by photographs of their noted men, heroes of more than local celebrity. There are fac-similes of their declarations of independence and historical papers relating to the revolutions that established the autonomy of the different republics. These portraits and fac-similes are extremely valuable. They are for the first time presented and illustrate the two great epochs in the history of these countries.

But pictorially and historically valuable as are all these exhibits, showing the resources of the Central and South American States, their value is enhanced by the fact that they are in a manner tributary to a more practical presentation, which is known as the commercial exhibit.

It has long been recognized that a great and growing market for American goods lies to the south of the United States, but it is practically controlled by the merchants and manufacturers of Europe. Owing to its contiguity to the United States this market should be supplied and controlled by Americans, but such is not the case. There is hardly an article supplied to that market that could not be sent quite as cheaply from the United States as from Europe, and it is to increase to Americas commerce and shipper the vast possibilities open to them in the way of future trade that this commercial exhibit has been brought together. For this purpose the principal articles of import into the Latin American countries that are not made in the United States are shown and enumerated, representing the classes of goods best adapted to the wants of the people in every district; the most popular patterns and styles of dress goods and other fabrics for wearing apparel, boots, shoes, millinery, hosiery and articles of adornment. There is an immense trade in these things, and it has only been obtained by catering to the wants and even the caprices of the customers.

A vast field is open for the introduction of machinery, agricultural implements, steam engines, and in fact everything that is needed in the development of a new and unexploited country. The same may be said respecting drugs, chemicals, provisions, china and earthenware, glass and hardware, jewelry and watches, pianos and musical instruments, perfumery, toilet and fancy goods, lithographs, furniture of a class used in tropical countries, and everything needed in household furnishing and adornment.

The materials of goods and manufactures most in demand in Central and South America have been obtained by purchase in their markets and are exhibited. A special bulletin of the Bureau of the American Republics has been prepared giving prevailing prices, terms of payment and every particular relating to size, quality and character of goods, etc., for the guidance of the American producer. Of equal value to the would-be shipper to this market is the special information regarding the packing and shipment of goods, machinery, etc., as frequently the best markets are far in the interior and all articles must be transported on the backs of mules, llamas or men. To make this object lesson perfect the director of the Latin American department has had prepared complete models of carriers, and drafted specimens of those animals employed as beasts of burden, each one equipped with its proper accoutrement of pack-saddle, silla, etc., and carrying an exact model of the load intended for it. These examples show how goods should be packed to insure safe and proper transit over the roads and trails of each country, giving also dimensions and maximum weights permissible, so as to suit all methods of local transportation.

The necessary material for the packing is also given. Where the articles themselves could not be presented as samples, they are fully illustrated by the supplementary sketches and photographs, showing perfectly their uses and functions.

Unique as a whole, picturesque and beautiful, this collection in the gallery of the state department has a practical bearing that will commend it to every one who is interested in the development of American commerce.

The recent International American Conference is commemorated by a large frame containing photographs of all the officers and delegates, and the flags of the various nations which participated.

An immense relief map of Mexico, Central and South America gives the observer a bird’s-eye view of those continents, showing all the lines of transportation by sea and land, and the proposed route of the Inter-Continental Railway which has been surveyed under the auspices of the
United States according to the recommendations of the International American Conference. This map has been prepared under the supervision of the engineers engaged upon that survey, and gives an excellent idea of the line that is to connect North, Central and South America.

Department of the Interior.—This Department is making exhibits from the United States Geological Survey, the Bureau of Indian Affairs, the Patent Office, the General Land Office, the Bureau of Education, the Census Office, the Yellowstone, Yosemite and Sequoia National Parks and the Territory of Alaska. Briefly summarized, the exhibits are as follows:

Geological Survey.—The Geological Survey elucidates the geology of the country and represents its work in both the field and the office. Mineralogy is shown by specimens selected from all quarters, and also rocks as an educational collection. Cases of American fossils are arranged to show their distribution in the United States and their order in the geological column. In connection with these are restorations of some of the enormous fossil animals discovered by Prof. Marsh. The office work is illustrated by photographs and photographic transparencies, maps and drawings. The instruments used in the work of the survey are displayed, together with a series of enlarged relief maps, to show the geology and topography of the country. In addition to the collections having a purely scientific value, a collection has been prepared to show the economic resources of the United States, including ores and minerals of commercial value, arranged so as to illustrate at a glance the wealth of the United States as regards each particular class of objects.

Bureau of Indian Affairs.—The functions of the Indian Bureau are illustrated by specimens of the work of North American Indians, showing their native industries as compared with their accomplishments in the arts of civilization. The exhibit from this bureau shows the civilized side of the Indian, portraying the educational work which the government is doing. An Indian school is in operation in a building erected for the purpose. The rooms and halls of the building are decorated with articles of Indian manufacture, blankets, beads, pottery, baskets, etc. The windows are filled with transparencies showing scenes on Indian reservations and pictures of Indian life and customs. In the school-rooms are specimens of penmanship, drawing, composition and other school room-work, sent from the various government schools. Indian art is shown by decorations on the walls, and the work of Indian mechanics is represented in the way of specimens of harness, tinware, carpenter work, shoemaking, farm products, etc. The main interest of the Indian exhibit consists in the carrying on of an Indian boarding school, in which boys and girls, with their instructors, will live, study, recite, sew, prepare meals, work at their trades and carry on all the industrial and educational life and training which pertain to a boarding school upon an Indian reservation. The school building has shops, school-rooms, sitting-rooms, dining-room, kitchen, dormitories and rooms for employés. The picturesque and impressive side of primitive Indian life is shown by presenting the living Indian in his own habitation and carrying on his own avocations. With this end in view, several Indian families, representing different tribes, have been located near the Indian building, showing their customs, life and occupations in their primitive and aboriginal surroundings.

Patent Office.—The Patent Office exhibit illustrates the marvellous rate of progress in invention of the present age and the fostering influence of the American patent system in this regard. There is shown to inventors and mechanics the methods, processes and requirements of the Patent Office. The exhibit consists of groups of models arranged in series, those in each art being arranged by themselves, so that the entire display constitutes an outline history of the development of its various useful arts. This exhibit would prove interesting and profitable, since the juxtaposition of the crude and imperfect devices which marked the inception of each art, with those showing the acme of development now reached, illustrates the progress that has been made, while the presence, serially and chronologically arranged, of the types representing the important intermediary steps shows in a graphic manner how the present results have been attained.

General Land Office.—The exhibit of the Land Office embraces maps and plans showing the public lands, their location, character products, etc., and the timber, mineral and agricultural resources of the various sections of the country. The line of the exhibit is the "public lands" and the "public land system" of the United States. The exhibit is graphic and delineatory, representing the work of the different divisions of the office. Placed before the public, in an attractive manner, information is given as to the development of the country from its infancy to the present time; its growth by cession and purchase; the development of the acquired territory; advancement in the system of surveys adopted by the United States; location of the agricultural lands disposed of and in possession of actual settlers; agricultural lands not disposed of; location of discovered and developed mineral lands; lands segregated to railroads; the area of timber and desert lands, etc.

Bureau of Education.—The Bureau of Education exhibits its publications, and by suitable devices, the methods of diffusing information through reports and correspondence; its blank forms of inquiry and other methods of collecting information, and by figures and graphic devices on charts, a digest of statistical information respecting all classes of schools in the United States. The library and museum division exhibits the evolution of the text book and illustrates the character of its various collections. Text books printed in the earliest years of the settlement of the country are shown. An effort has been made to show the relative character of American and foreign text books. There is also shown a model library of pedagogy and general instruction. The collection of books is a model one in every respect, classified and shelved according to the most improved system. Finding lists, dictionary and classified catalogues, accession books,
BOARD OF MANAGEMENT AND CONTROL THE U. S. GOVERNMENT EXHIBIT.

1. Elijah C. Foster,

2. Prof. G. Brown Goode,
Asst. Secy. Smithsonian Institute.

3. W. E. Curtis,
Department of State.

4. Fred A. Stocks,
Treasury Department.

5. Major Clifton Comly,
War Department.

6. Edwin Willits,
Department of Agriculture.

7. Capt. R. W. Meade,
U. S. Navy.

8. A. D. Hazen,
Post Office Department.

9. Horace A. Taylor,
Commissioner of Railroads.

10. Tableton H. Bean,
U. S. Fish Commission.

11. F. T. Riceford,
Secy. and Executive Officer.
circulation books, and in fact every requirement of a properly conducted library is shown. The museum exhibits the development of the school-room, school building and grounds, much attention being devoted to the arrangement of rooms, heating apparatus, ventilation, sanitation, etc. The evolution of school furniture is exhibited and the development of school apparatus and appliances. The objective method of instruction, as practiced in laboratories and kindergarten and manual training schools, is shown.

CENSUS OFFICE.—The Census Office exhibits the novel electrical tabulating system developed during the taking of eleven census, with skilled operators at work, and exhibits also a series of modern types showing the great growth of census figures, the national development and our rate of progress, movement of population, population by race, sex, nativity, etc. Also the manufacturing, mining and agricultural interests of the country and other statistics of value.

NATIONAL PARKS.—From the Yellowstone Park are exhibited various specimens of minerals, rocks, sections of the curious formations about the geysers and of petrified trees, and many other curiosities abounding in that well named "wonderland." From the Sequoia Park is exhibited a big tree, one of the finest specimens to be found in California. The section has been erected in the shape of a cylinder, and the Yosemite shows large photographs of some of the most noted big trees and of the remarkable scenery of that region.

TERRITORY OF ALASKA.—From Alaska is exhibited a full collection showing the resources of that great Territory. There are minerals, fish, furs, oils, timber, etc. There is also a great collection of curios manufactured by the native Alaskans.

U. S. Fish Exhibit.—According to the Act of Congress creating the United States Government exhibit the functions of the fish commission exhibit have four special branches, viz: Inquiry respecting fresh food; propagation of food fish; statistics relating to national fisheries and their methods, and the live fish exhibit in the aquarium. The area given the fish exhibit in the building comprises about one-sixth of the entire space. By far the most interesting features are the various illustrations of the science of fish farming. Spawn and little fish in all stages of development are shown. The statistics relating to government fisheries tell the visitor that at a single station on the Massachusetts coast the government hatched 55,000,000 cod fish and 20,000,000 lobsters last year. There are hatcheries at stations all over the United States, and these include the great fresh water fish hatcheries of the interior, beside the sea-coast hatcheries. The main idea of the government fisheries exhibit is to illustrate not only the methods of catching fish and fish culture but the fisheries themselves and their management. In the department of fish culture there are tanks and troughs showing the methods of hatching shad, pike and perch. These are called rearing troughs. Actual spawn will be used during the Exposition, except possibly two months in midsummer, when natural eggs cannot be had. Artificial eggs will then be used. The growth of the fish is shown by means of casts of yearlings, 2-year-olds, 3 and 4-year-olds, etc. These casts are of material which the government keeps secret, and are mounted on stands. Another interesting portion of this exhibit comprises the methods of taking eggs from the fish. There are fishermen's doors and full sized lay figures, representing fishermen in the act of securing the spawn. There is also a historical series of fish culture apparatus. There are models of complete fishing stations and rigged vessels. Among these models are the trout station in Colorado and whitefish station at Put-in-Bay, the shad station at Havre de Grace, Md., and the cod station at Woodshull, Mass. There is also a complete model of the government transportation apparatus, showing the methods of transporting fish in cans or boxes. There is a valuable series of charts showing the effects of fish culture upon the different fisheries, and a complete series of photographs illustrating the operations of the United States Fish Commission. The department of scientific inquiry includes very valuable instruments for taking deep sea soundings. There are splendid models of the steamers Albatross and Fish Hawk, the two principal government steamers engaged in the fisheries. There are nets which are used in bringing fish to the surface from a depth of three miles and more. Most interesting are the specimens of animal life brought from these vast recesses of the ocean. Intricate machinery for winding deep sea nets, charts, maps and a library of fish literature go to make up a marvelous exhibit. There are corals, sea plants and sponges taken in these deep sea soundings. There is also a model of engines used in the submarine cable survey. In the department illustrating commercial fisheries there are papier-mâché casts of large marine animals, including a little whale, grampus, porpoise, sturgeon, a twelve-foot halibut and sharks. There are hundreds of these casts, giving a comprehensive idea of the extent and variety of government fisheries. There are models of vessels and boats used in the fisheries, some being remarkably handsome. The development of fishing craft, from Indian canoes and dug-outs to the modern whalers and oyster boats, are freely shown. Then there are full-sized sealing and whaling boats, equipped with all the apparatus used in actual work. There is a life-sized group of hair seals and another of fur seals. There is a ten-foot horse mackerel. Up by the gallery there are lay figures, one being a man in the act of harpooning a whale and another representing a man in the rigging looking out for whales. There is a figure of a negro fisherman and another of a Chesapeake bay oyster fisherman, and the last, a model of the Potomac, where fish swim up stream and falls without effort. There are fish traps, nets and seines in great profusion and a special exhibit of the Alaska fisheries. There is a cage of birds which subsist on fish. One corner of the exhibit is devoted to anglers and their appliances. There are lay figures representing various angling scenes.
[For description of the exhibit of the United States Fish Commission in the Fisheries Building, see "Department D—Fish and Fisheries."

Colonial Exhibit.—The Colonial exhibit is made in the United States Government Building. Mrs. Ralph Trautman, of New York City, Mrs. Sallie Cotton, of North Carolina, and Mrs. George Wilson Kidder, of Wilmington, N. C., formed the committee from the Board of Lady Managers to obtain space for the display in the Government Building. The committee was assisted by Mrs. Gillespie, of Philadelphia, a great granddaughter of Benjamin Franklin, who was President of the women's section of the Centennial. These ladies personally secured the aid of President Cleveland and the Cabinet officers, and secured space for their exhibit in the dome of the building. One of the conditions made by Secretary Gresham when he endorsed the project was that each item of the display should have historic value as well as personal interest. The Board of Lady Managers installed the Colonial exhibit in six of the arches of the dome. The two remaining arches are occupied by the Declaration of Independence and the original Constitution of the thirteen original States. No two objects within the Exposition attract more attention than these, nor are more closely guarded, consequently the owners of the colonial relics may feel particularly assured that their treasures are under the government's protection. The six arches are equally proportioned among the thirteen original States participating in the Colonial exhibit, their respective flags and State coat-of-arms indicating the location of each. North Carolina made liberal provision for her participation in the exhibit, and New York appropriated $10,000 to her share. Massachusetts also takes active participation in this exhibit.

United States Weather Bureau.—This building stands northeast of the Government Building. It is a wooden structure, covered with cement to resemble cut stone, and is two stories with tower. In size it is 40x30 feet. The first floor is used for meteorological apparatus and the printing of weather maps. The second floor is used for a hall, one end having a platform from which is given stereopticon views and lectures on meteorological subjects and the forecasting of the weather. The tower is used for observation and meteorological instruments. Cost of building, $5,965.

Life Saving Station.—Located on the edge of the north pond, to the east of the Illinois State Building, is the Life Saving Station, which is equipped with every appliance, and a regular crew goes through all life saving maneuvers. The station consists of a one and one-half story frame building, 67x35 feet, with covering of shingles and clapboards. The gables are treated with overhanging ends. A portion of the roof is truncated, protected by a hand railing, forming a lookout deck, which connects with a small rectangular watch tower. The general treatment is Colonial. The structure combines a dwelling for the crew together with a boat and apparatus room. The dwelling portion is surrounded by a broad uncovered platform with railing. On the east side is the entrance porch. The dwelling contains, on first floor, four living rooms, also hall, entry, pantry, closets, etc. Above are sleeping quarters for the crew, spare-room, clothes-room, storage, lavatory, etc. A circular iron staircase, from the second floor, leads to the watch tower and lookout deck. The boat-room is on the first floor, 57 feet 6 inches by 34 feet 2 inches, fitted with closets, and arranged to accommodate two or more life boats, together with the complete apparatus used for life saving purposes. On the west side the boat-room connects with the water by a launchway. The boats, with crews aboard, run by gravity to take the water. As this is a permanent station for the United States Life-saving Service, and will so remain after the closing of the Exposition, utility has been considered more than mere ornamentation in the general design. Its cost, exclusive of apparatus and furnishings, was $10,000.

Lighthouse Exhibit.—The exhibit made by the United States Lighthouse Board is the tower constructed for the Waackaack lighthouse, New Jersey. It is located on the north pond, directly north of the Fisheries Building. It is an iron skeleton structure, surmounted by a parapet and a lantern, accessible from below by a spiral stairway inclosed in a cast-iron cylinder. The skeleton structure, which rests upon eight circular foundation disks anchored to a concrete foundation, is composed of columns, sockets, struts and tension-rods, forming a frustum of a square pyramid, bounded on top by an architrave supporting an octagonal gallery, a circular parapet and a decagonal lantern. The frustum has a base 28 feet square; its height is 84 feet to the lower face of the architrave, where its sides form a square of 8 feet 8 inches on each side.

United States Government Board of Management and Control.—This board is authorized by Section 16 of the Act of April 25, 1890, and consists of one representative from each executive department, from the Smithsonian Institution and National Museum, and from the Fish Commission. The chairman of the board is appointed by the President of the United States and the board itself is given authority to select such other officers as it may deem necessary. The members of this board serve without compensation other than their regular pay as government officials.
VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

4. Charles Wright, Supt. of Pomology.
5. H. M. La Rue, Supt. of Viticulture.
6. Dr. Jas. A. Henshall, Asst. in Charge Angling Exhibit.
7. E. L. Burchard, Chief Clerk Mines and Mining.
10. S. J. Macomber, Machinery Expert.
11. W. A. Raborg, Mineralogist.
12. H. Fitz-John Porter, Engineer Machinery.
15. Clinton Collier, Supt. Shoe and Leather Division.
VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

1. Jos. Hiatt,
   Secy. of Installation.
2. Fred. Brackett,
   Secy. of Installation.
3. E. Brewer,
   Chief Clerk Dir.-Gen. Office.
4. E. H. Taylor,
   Special Agent for Foreign Exhibitors.
5. N. E. Dawson,
   Chief Clerk Dir.-Gen. Office.
6. D. N. Bartolette,
   Surgeon U. S. N.
7. R. J. C. Irving,
   Secretary Dir.-Gen. Office.
8. E. C. Culp,
   Private Secretary Dir.-Gen. Office.
9. R. J. Murphy,
   Secy. Press Committee.
10. R. A. Rogers,
    Chief Clerk to Secy. National Com.
DUTIES AND POWERS OF THE VARIOUS OFFICIALS.

WORLD'S COLUMBIAN COMMISSION.

This body is known by the title of the "World's Columbian Commission," as designated by the Act of Congress, approved April 25, 1890, and as set forth in the by-laws. The Commission has an Official seal, circular in form, with the following devices thereon. Around the margin of the words: "World's Columbian Commission, created by Act of Congress of the United States of America, organized 1890." In the center a vignette composed as follows: In the top of the circle the eagle, copied from our National coat of arms, perched upon the figure of a globe, and below it a section of the well-known picture of the landing of Columbus, showing the prow of the boat.

National Commissioners.—Two from each State and Territory, provided for by the Act of Congress creating the World's Columbian Commission; appointed by the President of the United States, on the nomination of the Governors of the States and Territories, respectively; also two Alternate Commissioners appointed in the same manner and within the same time; also eight Commissioners-at-Large and two from the District of Columbia, appointed by the President of the United States, and the same number of Alternate Commissioners, appointed in the same manner and within the same time. In the nominations and appointments each of the two leading political parties (Democratic and Republican), were equally represented. Vacancies in the Commission nominated by the Governors of the several States and Territories, respectively, and also vacancies in the Commission-at-Large and from the District of Columbia may be filled in the same manner and under the same conditions as provided for their original appointment. Immediately after the passage of the Act, the Secretary of State of the United States notified the Governors of the several States and Territories, respectively, thereof and requested such nominations to be made. The Commissioners so appointed were called together by the Secretary of State of the United States in the City of Chicago, by notice to the Commissioners, within thirty days after their appointment. The Commissioners, at the first meeting, organized by the election of such officers and the appointment of such Committees as they deemed expedient.

The duties, powers and compensation of the Commission were set forth in Sections of the Act as follows:

That said Commission be empowered in its discretion to accept for the purposes of the World's Columbian Exposition such site as may be selected and offer and such plans and specifications of buildings to be erected for such purpose at the expense of and tendered by the corporation organized under the laws of the State of Illinois, known as "The World's Exposition of eighteen hundred and ninety-two." Provided, That said site so tendered and the buildings proposed to be erected thereon shall be deemed by said Commission adequate to the purposes of said Exposition; and Provided, That said Commission shall be satisfied that the said corporation has an actual bona fide and valid subscription to its capital stock which will secure the payment of at least five millions of dollars, of which not less than five hundred thousand dollars shall have been paid in, and that the further sum of five million dollars, making in all ten million dollars, will be provided by said corporation, in ample time for its needful use during the prosecution of the work for the complete preparation for said Exposition.

That the said Commission shall allot space for exhibitors, prepare a classification of exhibits, determine the plan and scope of the Exposition, and shall appoint all judges and examiners for the Exposition, award all premiums, if any, and generally have charge of all intercourse with the exhibitors and the representatives of foreign nations. And said Commission is authorized and required to appoint a Board of Lady Managers of such number and to perform such duties as may be prescribed by said Commission. Said Board may appoint one or more members of all committees authorized to award prizes for exhibits which may be produced in whole or in part by female labor.

That after the plans for said Exposition shall be prepared by said corporation and approved by said Commission, the rules and regulations of said corporation governing rates for entrance and admission fees, or otherwise affecting the rights, privileges, or interests of the exhibitors or of the public, shall be fixed or established by said corporation, subject, however, to such modification, if any, as may be imposed by a majority of said Commissioners.

That it shall be the duty of the Commission to make report, from time to time, to the President of the United States of the progress of the work, and, in a final report, present a full exhibit of the results of the Exposition.

That the Commission hereby authorized shall exist no longer than until the first day of January, eighteen hundred and ninety-eight.

That the Commissioners and alternate Commissioners appointed, under this act shall not be entitled to any compensation for their services out of the Treasury of the United States, except their actual expenses for transportation and the sum of six dollars per day for subsistence for each day they are necessarily absent from their homes on the business of said Commission. The officers and said Commission shall receive such compensation as may be fixed by said Commission, subject to the approval of the Secretary of the Treasury, which shall be paid out of the sums appropriated by Congress in aid of such Exposition.
STANDING COMMITTEES.

Judiciary, Rules, and By-Laws.—(Consisting of eight commissioners.) Formulate Rules and By-Laws for submission to the Commission, and report on all such matters as may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control. Have consideration of all such matters relating to tariffs, bondage, and releasing of goods, and the transportation of goods, as may be referred to it by the National Commission, its Executive Committee, or its Board of Reference and Control, in conjunction with such officers of the Treasury Department as may be appointed.

On Foreign Affairs.—(Consisting of eight Commissioners.) Have charge of all matters pertaining to the foreign exhibits of the Exposition that may be referred to it by the National Commission, its Executive Committee, or its Board of Reference and Control.

Legislation.—(Consisting of the Commissioners and alternates from each State, Territory, and the District of Columbia, and also the Commissioners-at-Large and their alternates.) Have consideration of all matters pertaining to the State, Territorial, or Municipal legislation affecting the Exposition.

On Federal Legislation.—(Consisting of twelve Commissioners.) Have charge and jurisdiction of all matters of Federal legislation relating to or in anywise connected with the interests of the Exposition.

On Fine Arts.—(Consisting of eight commissioners.) Have charge of all matters pertaining to fine arts which may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Science, History, Literature, and Education.—(Consisting of eight Commissioners.) Have charge of all matters pertaining to these subjects that may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Agriculture.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to agriculture which may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Live Stock.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to live stock, including domestic animals, poultry and birds of all varieties, as shall be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Horticulture and Floriculture.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to these subjects that may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Finance.—(Consisting of eight Commissioners.) Have charge of all matters pertaining to the expenditures of the Commission under the Act of Congress, or such other matters of finance as may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Auditing.—(Consisting of four Commissioners.) Have charge of examining and auditing all paid bills and accounts of the Commission; and this Committee may hold sessions at the call of its Chairman, not oftener than once in two months.

On Ceremonies.—(Consisting of ten Commissioners, two of whom shall be the President and Secretary of the Commission.) Have charge of all matters pertaining to the inauguration of the World's Columbian Exposition, and all ceremonies connected from time to time therewith.

On Classification.—(Consisting of sixteen Commissioners.) Have charge of all subjects pertaining to the classification of exhibits, and the limitation of space therefor, as may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Manufactures.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to this subject that may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On World's Congresses.—(Consisting of eight Commissioners.) Act in connection with the Local Directory in reference to any World's Congress that may desire to assemble here during the Exposition.

On Grounds and Buildings.—(Consisting of six Commissioners.) Have charge and supervision of the grounds and buildings in so far as the Commission may exercise authority over the same, and also examine and report to the Commission as to the provision made by the World's Columbian Exposition for such buildings, as it shall be thereto required, by the order of the Commission, its Executive Committee, or its Board of Reference and Control.

Each of the said several standing committees has power and authority to investigate, from time to time, the workings of the several great departments, respectively, having charge of the particular subject, or subjects, with reference to which each such committee was created; and from time to time to make reports and recommendations respecting the same, either to the Board of Reference and Control, the Executive Committee, or to the Commission.

On Awards.—Appointed by the President, consisting of twelve Commissioners; authorized to meet at the call of the Chairman, and have charge of the subject of awards, and who, in connection with the Director-General, select and appoint the Board of Judges, subject to the approval of the Commission. Said Committee is empowered to employ a secretary at a salary not to exceed $5,000 per annum.

Groups and Classes.—Provided by the Commission as a means of determining where the different exhibits are installed and of associating the exhibit, its relation to the industry that is represented, and as an aid to the Committee on Awards in determining judgment.
VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

1. Nathaniel S. Rosenau,
   Supt. of Charities and Corrections.

2. John B. Dusmore,
   Supt. Cattle Division.

3. Wm. O. Pratt,
   Supt. of Education and Sanitation.

4. Victor Sarner,
   Chief Clerk Dept. Publicity and Promotion.

5. H. W. Cannon,
   Editorial Assistant.

6. E. D. York,
   Department Foreign Affairs.

7. Bessie B. Boyce,
   Secretary Transportation Dept.

8. John M. Whitley,
   Supt. of Fish and Fisheries Bldgs.

9. Lieut. F. S. Bassett,
   Interpreter Foreign Affairs Dept.

10. A. M. Garland,
    Supt. Sheep Division.

11. Adelaide F. Wilson,
    Private Secy. Dept. Publicity

12. Adelaide F. Wilson,
    Dept. Publicity and Promotion.

13. T. Hackworth Young,
    Supt. Railway Division

14. Hugh M. Hughes,
    Supt. of Grounds.

15. C. R. Pickard,
    Chief Clerk Foreign Affairs.
VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

3. T. THOMAS, Musical Director.
4. WM. L. TOMLINS, Choral Director.
5. G. H. WILSON, Sec. Music and Drama.
7. FRANK BOAZ, Asst. Chief Ethnology.
10. RICHARD LEE FEARN, Secretary Foreign Affairs.
11. SAM. V. STEELE, Editorial Assistant.
13. NANCY H. BANKS, Editorial Assistant.
BOARD OF REFERENCE AND CONTROL

This Board consists of the President of the Commission, the Vice-Chairman of the Executive Committee, and six members of the Commission, appointed by the President, upon which Board are conferred all the powers and duties of the Commission, when the Commission or its Executive Committee shall not be in session, except in cases in which the Act of Congress requires the action of the Commission, or of a majority of the Commissioners. This Board, with a like Committee, the Directory of the World’s Columbian Exposition, appointed by the President thereof, constitutes a Committee of Conference to which is referred all matters of difference, and the joint action of the two Boards, constituting the Joint Committee on such matters of difference, is conclusive. The Board is required to keep accurate records of all its proceedings, and make full reports of the same to the Commission at each session thereof, within the first two days of the session.

President.—The President presides over all the meetings of the Commission, and appoints all committees, unless otherwise directed by the Commission, and he has all the powers and duties of the President, except for the purpose of making any decision in numerical order, and, if all the Vice-Presidents be absent, the Commission may elect a temporary presiding officer. No salary is attached to the office other than their per diem as Commissioners.

Vice-Presidents.—There are five Vice-Presidents who are denominated, first, second, third, fourth and fifth Vice-Presidents. The first Vice-President must be of opposite politics to the President and the other four must be divided equally in politics. The Vice-Presidents are required, in the absence of the President, to perform his duties, each being a member in numerical order, and, if all the Vice-Presidents be absent, the Commission may elect a temporary presiding officer. No salary is attached to the office other than their per diem as Commissioners.

Secretary.—The Secretary conducts the correspondence of the Commission and is the custodian of all documents and records relating to its business. He is required to keep a full and accurate record of its proceedings and of those of the Board of Reference and Control, and to make report of same, from time to time. He has power to appoint such assistant secretaries as may be necessary. He is responsible for such assistants. It shall be necessary to keep a record of the proceedings of the Commission, subject to the approval of the Executive Committee. He is required to keep all the accounts of the Commission and certify the same to the Secretary for payment. All papers, accounts, and records in his custody shall at all times be open to inspection on the demand of any Commissioner.

Chief Clerk to the Secretary.—He keeps a record of the Commissioners and Alternates, showing date of appointment, postoffice address, changes, etc., and also a similar record of the Board of Lady Managers. He also has charge of the commissions issued to the Lady Managers, and the correspondence of the office of President. He keeps a full record of all correspondence. He keeps a record of the commissions issued by the Director-General to the representatives of the Exposition. As accountant he keeps a regular set of books and makes out the vouchers of all claims against the Commission and Board of Lady Managers, said vouchers consisting of an original, duplicate and triplicate, the two former being sent to the Treasury Department of the United States, the triplicate being kept on file in the Secretary’s office. He also has charge of the printing done for the Commission, Board of Control, etc., printing of letter heads for the offices of Directors, Vice-Presidents, Lady Managers, and Secretaries; and the purchasing of supplies for these offices. He also acts as journal clerk during the sessions of the Commission, and other important services when occasion requires. A recent committee inspection of the office was made and the report states: “Your committee finds that the books, accounts and vouchers of the Commission are under the charge of the chief clerk, Mr R. A. Rogers, an expert and experienced accountant, and this, and indeed every detail of the varied work in the office of the Secretary, is in the best possible condition. Every account is kept absolutely up to date and closed daily. Every letter, petition and application is properly marked and filed, so as to be accessible in a moment.”

Board Lady Managers.—This Board was created by Section 6 of the Act of Congress, approved April 25, 1890. Its officers are a President, who has general supervision over the Board, eight Vice-Presidents and a Vice-President-at-Large, one of whom presides in the absence of the President in the order in which they are enumerated; a Secretary, who is required to keep the records and minutes; a Superintendent of the Industrial Department, who prepares general statistics of industrial pursuits engaged in by women, etc.; a Superintendent of State Work, who has charge of work coming from the various States and Territories; a Chairman of the Committee on Awards, and a Director of the Woman’s Building, who has supervision over the building and its decoration.

Director-General.—The Director-General exercises such supervision, direction and control of the operation of the “World’s Columbian Exposition,” within the domain of the powers possessed by the Commission, as will tend to promote the efficiency of every agency employed. He is authorized to assume and exercise all such executive powers and functions as shall be necessary to secure promptness, efficiency, and good faith in every department of the work within the purview of the authority of the Commission, and is required to make report of his proceedings to the Executive Committee at such times and in such manner as shall be required by said Committee, and is in all matters subject to the direction and control of the Executive Committee. It is his duty and privilege to attend the meetings of any of the Standing Committees for the
purpose of suggestion and conference, and to the end that all the agencies of the Commission may be rendered more efficient. It is also his duty to make a report to the World's Columbian Commission, at each regular meeting thereof, of his proceedings, and of the progress made in the work of the Exposition since the last meeting of said Commission, with such recommendations and suggestions as he may deem best to make to said Commission.

The Director-General has the power to appoint chiefs of the several great departments, subject to the confirmation of the National Commissioner and the Board of Directors of the World's Columbian Exposition, and not by any committee of either body.

He fixes the salaries of such chiefs, subject to the approval of the Board of Directors of the World's Columbian Exposition.

He has power to appoint all subordinates necessary to the proper administration of the several departments, and to fix their compensation.

He may make removals, for cause, of any and all officers and employees appointed by him.

He may, in his discretion and with the consent of the Executive Committee, or Board of Reference and Control of the National Commission, and the Executive Committee of the Local Directory, place two or more of the great departments under the control of one chief, and so continue them until necessity shall require independent chiefs.

The Director-General has power, and it is his duty to commission all such representatives of the Exposition as shall be officially authorized to promote the interests thereof. He has general charge of the installation of all exhibits and the control and management of the same to the closing of the work of the Exposition, through the department chiefs. He has exclusively to do with all exhibitors in their connection with or relation to the Exposition; he has the power to make requisition upon the Director of Works to supply the necessary force and material to install the exhibits, maintain their custody, and protect the interests of exhibitors to the end of the Exposition. In all matters the Director-General is under and subject to the control and direction of the Council of Administration.

The chief of the Director-General's immediate office, and his clerk, hire, are paid out of the Government funds appropriated by the 18th Section of the Act of Congress for paying the expenses of the Commission, and other contingent expenses, and he may select such assistants and clerks as may be necessary to enable him to properly discharge the duties of his office, and fix their salaries, subject to the approval of the Executive Committee, or the Board of Reference and Control.

Private Secretary to the Director-General.—His functions are to attend to the more delicate duties of the Director-General where they require personal contact, and he is the Director-General's confidential secretary and right hand man. The post is filled by Mr. N. E. Dawson, who is an expert stenographer. Mr. Dawson was the private secretary of Gen. Grant when he was President and was also his confidential secretary through the days of his final illness until his death.

Secretary to Director-General.—The secretary has charge of all vouchers that pass through the Director-General's hands, and keeps a record of all allotment of space on the grounds.

Chief Clerk to Director-General.—This official is the principal aid to the Director-General, and performs the more mechanical functions incident to the office of chief clerk.

Secretary of Installation.—This is a part of the office of the Director-General, who has the exclusive charge of installation. The secretary of installation looks after that branch of the work, which consists of formulating all the general rules and regulations governing the Exposition, furnishing applicants for space with blank applications, rules and regulations and printed matter of a general character; to receive all applications, see that they are in proper form, classify and refer them to the department where they are to be installed, keeping a record of same; take charge of all correspondence with parties desiring to make an exhibit until their applications are duly filed and installed in the departments to which they belong. After this is done the chiefs of the departments take charge and continue any correspondence in regard to the same. The secretary also receives reports from the General Manager of Transportation of all cars containing exhibits when they arrive on the grounds; gives instructions as to where each exhibit is to be located, so that the Department of Transportation can deliver them to the building where they are to be installed without any delay, and to perform such other duties as may be assigned to the department by the Director-General.

Sergeant-at-Arms.—This position was created recently by the National Commission and Lieutt. R. C. Irvine, Eleventh Infantry, U. S. A., was appointed. His duties are the same as those incident to the office of sergeant-at-arms of any large deliberative body. Lieutenant Irvine, prior to his appointment as sergeant-at-arms of the National Commission, was a military attaché of the Director-General's office.

Special Agent Foreign Exhibits—As an attaché of the Director-General's office, the special agent has the arrangement of the installation of foreign exhibits.

Commissioner-at-Large.—In the fall of 1891, the Exposition company sent a commission (presided over by the commissioner-at-large), to southern Europe. Up to that time neither the people nor the rulers in that region of the world had manifested the slightest interest in the Exposition, but the commissioners appealed to both the potentates and the people, informing them fully of the stupendous undertaking in which this nation had embarked, and after some five months so spent in industriously disseminating all the information available, the most gratifying change of sentiment occurred and the liveliest interest was inspired. Not only did kings and queens respond most encouragingly (speaking alternately in French and German, as
HON. THOMAS B. BRYAN,
COMMISSIONER-AT-LARGE, WORLD'S COLUMBIAN COMMISSION.
they had been addressed), but the Pope, also acknowledging that he was surprised to learn of the grand scale of the international Exposition, promised to contribute generously to its success and did so first by his cordial letter to Commissioner-at-Large Bryan (translated and circulated in many lands), and next by contributing treasures never before permitted to leave the Vatican. The commissioner-at-large has, since that European mission, been incessantly occupied in conducting correspondence, and in multifold office work, delivering lectures and otherwise advancing the interests of the Exposition. It is expected that he will be unintermittingly occupied during the Exposition in communicating with and aiding foreign exhibitors, especially those not familiar with our language; also in helping the Director-General and other officers receive visitors, including the thousands of distinguished guests and attendants upon the World’s Congresses.

Thomas B. Bryan was born December 22, 1828, in Alexandria, Va. His father, Hon Daniel Bryan, was a prominent man in Virginia. He represented his district in the State Senate, besides holding other important positions. James and Philip Barbour, his mother’s brothers, served in the highest offices of the State, in the United States Senate, United States Supreme Court, and in the Cabinet as Secretary of War. Mr. Bryan was graduated at Harvard University in 1848. While pursuing his college studies he wrote a book in the German language, the aim of which was to make it easy for Germans to acquire the English language. Many editions have been sold, it being pronounced an excellent work. He is also familiar with the French, conversing quite fluently in that tongue. Mr. Bryan married early in life Miss Jennie B. Page, daughter of an Episcopal clergyman. She is spoken of as a most gentle; accomplished and excellent lady. Their wedded life, which has already passed the fortieth anniversary, is very harmonious. After several years’ successful practice of his profession in Cincinnati, in partnership with Judge Hart, Mr. Bryan came to Chicago in 1852, where he has been engaged in business up to the present time, with the exception of three years in Colorado, and during his governorship of the District of Columbia. Although Mr. Bryan is a very energetic man he is not ambitious. He has occupied many prominent positions with great credit to himself, and if he had been more eager for fame or political power, he might have been a leading orator, statesman or diplomat. After the death of Bayard Taylor, Mr. Bryan was strongly recommended for his successor as ambassador to Germany, the leading newspapers of the United States uniting in the recommendation. But, when Andrew D. White, of Cornell University, was mentioned for the position, Mr. Bryan encouraged the appointment, gracefully retiring from the field. Mr. Bryan, as vice-president of the World’s Columbian Exposition, addressed conventions in many of the States, besides visiting Europe, where he succeeded in overcoming strong prejudices against the Exposition, and in arousing latent forces in its behalf. After his successful efforts at Washington he gained another great victory in the effort to get the consent of the Legislature of the State of Illinois to authorize the city of Chicago to issue $5,000,000 in bonds for the benefit of the Fair. He was afterward appointed commissioner-at-large. Mr. Bryan is a sound lawyer, being a close student in his profession, and, as a convincing speaker, unusually gifted. His impromptu banquet speeches are always received with great applause, especially when a bit of humor, or an apt quotation, is sandwiched between more sober thoughts.
CHIEFS OF DEPARTMENTS.

THEIR DUTIES, FUNCTIONS, ASSISTANTS, ETC.

Agriculture.—The work of the chief of this department has consisted in stimulating an interest in the department among State agricultural associations and organizations, agricultural implement people, the brewing industry, the canned goods associations and such other industries as are included in the classification of the Department of Agriculture, guided by his own experience in connection with work of a similar character, in a similar way, and the records of past expositions, and fairs, and other organizations of that kind. He has charge of the Agricultural Building and exhibits; also those of live stock, forestry and dairy products.

Secretary.—The secretary of the Department of Agriculture is the principal assistant to the chief of the department. He also looks after the general work of the Departments of Live Stock and Forestry. Mr. A. B. Hurt, the secretary, is a native of Mississippi, but his home is now at Chattanooga, Tenn., where he is one of the owners of the Chattanooga Daily News. Among the public positions he has held are the following: Member of the Mississippi Legislature, superintendent of railway adjustments in the postoffice department, doorkeeper-in-chief of the national House of Representatives, and special agent of the United States Department of Agriculture. While holding the latter position he prepared a pamphlet on the agricultural resources of Mississippi, 20,000 copies of which were printed and distributed by the department. He was a commissioner to the New Orleans Exposition, and is at present an alternate commissioner from Tennessee to the World’s Columbian Exposition. He has been connected with the Exposition from the very first, having worked for nearly three months at Washington, to secure the location of the Exposition at Chicago.

Fisheries.—The chief of this department has charge and general supervision of the exhibit of fish and fisheries.

Mines and Mining.—The chief of this department has charge and general supervision of the Department of Mines, Mining and Metallurgy. In this department are a chief clerk, an expert coal and iron division, an expert machinery division, an expert building and stone division, two mineralogists, a cartographer, superintendent of building.

Chief Clerk.—The chief clerk, in his capacity as first assistant to his chief, has a considerable weight of responsibility in the prominent Department of Mines, Mining and Metallurgy. Both in the long campaign for exhibits, as well as in the laborious task of installation, he has, under the direction of the chief, conducted an extensive correspondence, managed the details and routine business, and acted as general aid. In a special line of work he has been given charge of the exhibit illustrating the Industry of Metallurgy and has directed the formation and arrangement of the display. During the progress of the Exposition, in conjunction with the other officials of the staff, he will attend to the many requirements of exhibitors, tender the hospitality of the department to the distinguished associations and personages making the Mining Building their headquarters, and gather material for the descriptive and statistical report to be made by the department at the close of the Exposition.

Machinery.—The duties of the chief of this department are an exercise of control and management of the Machinery Building and Annex and the exhibits therein. Soon after his appointment he placed himself in communication with the manufacturers of machinery throughout the United States, opening correspondence with them with a view of getting applications, which he did through the scientific and engineering societies and also by sending out circulars in reference to the exhibit of machinery. By that means he was brought in contact with about 2,000 machinery builders. Invitation of an exhibit of machinery from other countries was made through the means of the representatives of foreign nations.

Transportation Exhibits.—The chief has charge of the department and buildings placed at the disposal of transportation exhibits, and that includes all exhibits relating in any way to the science of transportation, showing the development of it, and divided into railroads, vehicles and marine transportation.

Manufactures.—This department was organized July 21, 1891, and in accordance with instructions from the Director-General the Chief of the Department at once began his work. In a short time upward of 30,000 pieces of mail matter were sent out to every prominent industry and manufacturer, trade journal, organizations and commercial body throughout the United States.
and to many foreign countries, giving information to intending exhibitors, anticipating one of the most complete exhibitions of manufactured products ever presented to the world. The chief has general supervision and control over the exhibits in that part of the Manufactures Building not occupied by the Fair, and of the Shoe and Basket Building and exhibits.

Electricity.—The chief of this department has the general management and control of the exhibits of electric appliances and apparatus. In this department is also an assistant chief.

Fine Arts.—The chief of this department, soon after his appointment, visited most of the countries of Europe and conferred with the government authorities and directors of art museums, schools, etc., and with the leading artists of this country, resulting in the formation of art commissions which have charge of arts of the various countries. The chief has general supervision and control over the Fine Arts Building and exhibits.

Assistant Chief Fine Arts.—This official's duties have consisted in cooperating with the chief of the department in every possible way in the direction of securing exhibits of the highest degree of excellence from the various art-producing countries of the world, and in installing the exhibits received in the manner deemed most effective and just to artists and visitors to the Exposition. He has been connected with the department since August, 1891. With the chief of the department he visited England, France, Holland and Belgium, and assisted in the work of interesting artists and officials in those countries. Later, he returned to America and conducted the affairs of the department here during the protracted absence of Chief Ives in Europe. He spent several months, at various times, in New York, in organizing the exhibit of American artists.

Liberal Arts.—The chief of this department has general charge and supervision of exhibits pertaining to education, hygiene, sanitation and medical and surgical instruments; all matters of literature, books, physical apparatus; religious and social organizations; matters pertaining to government and law; of commerce and banking; music and instruments of music; civil engineering; architecture; and all that pertains to foreign matters looking to the closing of affairs.

Assistant Chief Ethnology.—Mr. Franz Boas has been connected with the Department of Ethnology the past two years as assistant to the chief, in charge of the section of physical anthropology, and will remain in that department during the Exposition.

Foreign Affairs.—While it has been the duty of the chief of this department to lighten the labors of the Director General and assist co-workers of the various departments in everything connected with the representation of foreign countries, it has also been his task to minister to the wants of the foreign ministers themselves, furnishing them with all requisite information and welcoming them with the cordiality shared by the whole community. To accomplish a satisfactory representation from abroad a regular and systematic correspondence was established, which extended throughout the habitable globe, and embraced names distinguished in science, literature, art and commerce. The work was entirely abroad, and agents were sent to London, Rome, Mexico, South America and other foreign countries to seek general exhibits. The chief's present duties consist of correspondence with any foreign agents or exhibitors, or representatives in charge, and doing all that pertains to foreign matters looking to the closing of affairs.

Secretary Foreign Affairs.—Richard Lee Fearn, the Secretary of the Department of Foreign Affairs, came to Chicago thoroughly equipped for the work required of him by reason of long experience as a Washington newspaper correspondent. Although scarcely over thirty years of age he has, in the opinion of the principal officials of the Exposition, credibly discharged the responsibilities which have devolved upon him on a number of occasions when his brother, the chief of the department, has been called away from his desk, often for weeks at a time. The attractive circulars of information of the department, which contributed so much to making the plan of the Exposition understood abroad, as well as the official labels which were attached to every exhibit which has been brought into the Exposition grounds, were of his design and execution, but his unfailing industry has principally been directed to the routine details of the department and to answering the innumerable questions of visitors which might otherwise have absorbed the entire time of his chief.

Assistant Secretary.—Mr. S. Chapman Simms has filled the position of assistant secretary of the Department of Foreign affairs since the organization of the department. His duties are to look after the correspondence, code of cables and the general care of foreign commissioners on their arrival at the Exposition.

Interpreter.—Lieut. Fletcher S. Bassett, United States Navy, retired, has been with the department only a short while, but has proven himself a valuable assistant. He converses fluently in French, German, Italian, Spanish, and translates other languages.

Latin-American Bureau.—The Latin-American department was organized by William E. Curtis, Chief of the Bureau of the American Republics, at Washington, in the summer of 1890, under the direction of the Committee on Foreign Exhibits of the Exposition, of which Mr. William T. Baker was chairman. Through the influence of the latter gentleman an appropriation of $100,000 was made to promote the interests of the Exposition in the countries of Latin-America, although only a portion of that sum was expended. At the request of Mr. Baker the President of the United States detailed army and navy officers to act as commissioners for the Exposition to the Latin-American countries. Lieut. A. C. Baker, U. S. N., was sent to Mexico; Lieut. George...
P. Scriven, U. S. A., and Capt. Gilbert P. Cotton, U. S. A., to Central America. Lieut. H. R. Lemly, U. S. A., to Colombia; Lieut. Roger Welles, Jr., U. S. N., to Venezuela and the Guiana Colonies; Captain Alexander Rodgers, U. S. A., to Brazil; Dr. D. N. Bertolette, U. S. N., to Paraguay, Uruguay and the Argentine Republic; Lieut. C. H. Harlow, U. S. N., to Chile; Lieut. W. E. Safford, U. S. N., to Peru and Bolivia; Willard P. Tisdell, Esq., to Ecuador, and Fred. A. Ober, Esq., to the West Indies. Mr. Tisdell was afterward made a general commissioner to the countries of South America. Mr. E. D. York was appointed as assistant in the office at Washington. These commissioners remained in the countries to which they were assigned, promoting the interests of the Exposition, for a year or more, and then returned to continue their work at Chicago. Upon the organization of the Department of Foreign Affairs the Latin-American Bureau was placed under its jurisdiction, and Lieut. Roger Welles, Jr., was detailed to take charge of the office in Chicago, Mr. Curtis continuing the work in Washington. In the spring of 1893 the Bureau was removed to Chicago. Mr. Ober, the commissioner to the West Indies, in addition to his propaganda in behalf of the Exposition, was instructed to follow the track of Columbus through the West Indies, and the collection of historical relics and antiquities in the Monastery of La Rabida is largely due to his efforts.

Publicity and Promotion.—The chief of this department has several functions. Primarily and in public estimation the department is a press bureau, but it is not simply that. As indicated by the title it involves the general methods of promotion, not only as to the press, but to other accounts. It is divided into two parts: publicity as affected by relation to and through the press, and publicity and promotion as affected through other channels. Advertising through lithographs, pamphlets, books, news slips, the furnishing of news to newspapers and all classes of press associations; also advertising through posters and circulars and other methods. Early in the work letters and news items were sent to newspapers and magazines all over the world containing facts in regard to the Exposition interesting enough to be printed without pay, and that work has been kept up. Beside provision was made for furnishing news of the Exposition to every newspaper of the local press, the Associated Press, United Press, or any paper having a resident correspondent, a member of the press association for that purpose, when each day the news was printed and selected books for the respective newspapers and press associations. In another room was kept a general bureau of information of the Exposition. All office supplies, such as stationery, pens, pencils, writing paper, etc., comes through this department. An important branch of the work of this department was entered upon late in January, when regulations for the publication of the official catalogue were promulgated, and the work of collecting the material and preparing it for publication was placed in the chief's hands. Nearly all the kinds of work done in the past will be kept up during the Exposition period. The chief of this department has charge of all arrangements for looking after members of the press. Newspaper headquarters are in the Administration Building. Three floors of the northwest pavilion have been reserved for this purpose. One for the department offices, one for the local press, and one for press associations, foreign newspapers and file rooms. It is impossible to give separate rooms even to the leading newspapers of the country, but desk room is abundant, typewriting machines are at hand, and there are separate rooms for those great newspapers of Chicago and other cities which have regular staffs on duty. In regard to the extension of courtesies to newspaper men the department has recommended that a most liberal policy be adopted. This contemplates the issue of three kinds of tickets of free admission on account of the press; first a complimentary engraved invitation for journalists of distinction and the editors of the great newspapers of the world; second, season or term tickets for men who come here to work; and third, single admissions for transient visitors. It is as much to the interest of the press as of the Exposition that these privileges shall not be abused, and care therefore is taken not to extend such courtesies to any persons not fully accredited and identified. In this department there is a large staff of editorial writers and translators, besides others employed.

Chief Clerk of Publicity and Promotion.—James P. Holland, chief clerk of the department and superintendent of the Bureau of Information, is a journalist, having been connected with the Chicago press for several years. When Major Handy was appointed chief of the department in December, 1891, Mr. Holland was the first member of his staff secured. In the subsequent organization of the department, more especially in regard to the details on which the department had worked, the chief has been assisted materially by the chief clerk. In the early days of the department many of the descriptive news letters which found wide publicity through the press were prepared by Mr. Holland, but as the work of the department developed his time became fully occupied with executive duty in his capacity as chief clerk. During the six months immediately preceding the opening of the Exposition when the work of the department multiplied in every direction, Mr. Holland has had many demands made upon his time. His unflagging courtesy to one and all, in the face of the most trying circumstances, has become proverbial among all departments of the Exposition, and he seems to be looked upon, not only in the light of superintendent of the Bureau of Information but as an encyclopædia of Exposition matters.
HARLOW N. HIGINBOTHAM,
PRESIDENT WORLD'S COLUMBIAN EXPOSITION.
WORLD’S COLUMBIAN EXPOSITION.

The World’s Columbian Exposition is a corporation organized and existing under the laws of the State of Illinois (licensed April 9, 1888), its object being “The holding of an International Exposition or World’s Fair in the city of Chicago, in the State of Illinois, to commemorate on its four hundredth anniversary the discovery of America.” The capital stock of the Exposition is $10,000,000, of which $8,000,000 is subscribed, the stockholders numbering over 30,000, nearly all of whom are residents of the city of Chicago.

The government and control of the corporation is vested in a board of forty-five directors, chosen annually at the meeting of the stockholders.

The Act of Congress providing for the Exposition required the corporation to prepare the plans for the Exposition, and the rules and regulations governing rates of entrance, admission fees, and otherwise affecting the rights, privileges and interests of exhibitors or the public, subject to modification by a majority of the members of the World’s Columbian Commission.

Under the terms of the act as above mentioned, it has been the province of the corporation to select a site for the Exposition, prepare plans and specifications for the same, construct the buildings and prepare the grounds in a manner suitable for the holding of an International Exposition.

In addition to the above duties, the Board of Directors of the Exposition, under an agreement with the World’s Columbian Commission, adopted by both bodies in November 1888, supplies the necessary funds for carrying on the fifteen great departments under the Director-General, and exercises supervision over said departments with a view to ascertaining that the funds so provided are properly and judiciously expended for the purposes of the Exposition. For the purpose of carrying on its business the Board of Directors elects each year a president, two vice-presidents, secretary, treasurer and auditor, and certain committees, as enumerated below, are appointed by the president.

Commissioners From the States and Territories.—In nearly all cases the State Boards of Commissioners were appointed by the governors in conformity with acts of the legislatures of the respective States. These boards assumed such executive powers and functions as were necessary to secure complete and creditable displays of the various interests of their respective States, by having personal charge of the solicitation, collection, transportation, arrangement and exhibition of the objects sent by associations and individual citizens of the States, such as the natural and industrial products, objects illustrating the history, progress and moral and material welfare and future development. These boards generally are required to make reports of their proceedings and expenditures from the time of their appointment until the time to their governors. The commissioners from the Territories are in all cases appointed by the governors, respectively, and their duties and powers are the same as those from the States.

President.—The president of the World’s Columbian Exposition is Mr. Harlow N. Higinbotham, one of the members of the firm of Marshall Field & Co. He is the executive officer of the corporation and the active agent for the accomplishment of the purposes for which it was formed. All contracts binding upon the corporation and upon which money is expended from the corporate funds, unless otherwise provided by law, are made by the president, who is chairman of the Executive Committee, which exercises all the functions of the Board when the latter is not in session. Mr. Higinbotham is also chairman of the Council of Administration, a body composed of two members of the Board of Directors and two members of the World’s Columbian Commission organized for the purpose of concentrating the jurisdiction of both bodies in order to more effectively administer the affairs of the enterprise. (See Council of Administration.)

Harlow Niles Higinbotham was born in Joliet, Ill., Oct. 10, 1838. He attended school in a little log cabin until he began business for himself at the age of twenty, in the crockery line. He came to Chicago in 1860, and entered the employ of Cooley, Farwell & Co., where he remained for a short time. He enlisted in the Morgan Guards at the beginning of the late war, and went through the campaigns in Virginia and Tennessee. Returning after the close of the war he again entered the firm of Cooley & Leiter, which was afterward, Field, Leiter & Co., and now Marshall Field & Co., where he has been ever since, having been admitted to the firm in 1880. Mr. Higinbotham, from the inception of the enterprise was a working member of the two most important committees of the corporation, those on Finance, and Ways and Means. He contributed without stint his time and services when the fortunes of the Exposition were so critical that the committees were required to be in almost continuous session. Mr. Higinbotham’s unanimous election as president was followed by his appointment to membership and the chairmanship of the Council of Administration, a body created to be representative of the supreme power vested in both the national commission and the directory of the corporation. The duties of these combined stations demand the constant attention of their incumbent, and that Mr. Higinbotham should give this is a contribution whose value can not be overestimated. His characteristics are clearness of perception, directness of method, steadiness of application, and promptitude in decision. These form an equipment which constitute a model man of affairs, and such is Mr. Higinbotham. His success in life has been the outcome of work and thought, not speculative fortune. The destinies of the Exposition could not be entrusted to a more capable and trustworthy guardian.)
Vice-Presidents.—The first and second vice-presidents are, respectively, Mr. Ferdinand W. Peck and Mr. Robert A. Waller, the former being also the chairman of the Committee on Finance, and the latter a member of the Committee on Ways and Means and of the Insurance Auxiliary Committee, which attends to the placing of insurance upon the Exposition buildings and the exhibits contained therein.

[Ferdinand Wythe Peck, the son of Philip F. W. and Mary Kent Peck, was born in Chicago in 1848, and is the youngest of seven brothers, three of whom still survive and are known among the foremost in public spirit and enterprise of Chicago's sons. At the time of his birth the Peck mansion and grounds occupied the site now covered by the Grand Pacific Hotel, and the city as those of the present day know it was but a dream of the enthusiast. He was educated in Chicago, graduating successfully from the High School, the Old University, and the Union College of Law, and received his diploma from the latter institution while yet a minor. Mr. Peck was admitted to the bar coincidently with the attainment of his twenty-first year. He has never engaged actively in the practice of that profession, but in his supervision of large and intricate affairs has found the value of that training which Daniel Webster said was essential to the formation of a man of business. Mr. Peck from his first entrance upon the sphere of manhood has given largely of his time, talents, and influence to the furtherance of measures looking to the development and improvement of his native city. He has been prominently connected with most of the enterprises which have contributed to the renown of Chicago. The magnitude of his private interests has not detained him from active participation in public matters, and the value of his alert mind and untiring energy has been recognized by the community in the frequency with which he has been called to leadership. From the earliest agitation of the project for a Columbian celebration, Mr. Peck has been an indefatigable exponent of the scheme, and has labored incessantly toward the achievement of the results which now challenge the admiration of the world. One of the seven original incorporators of the company upon whose charter the whole superstructure of the Exposition was based, Mr. Peck is now first vice-president of the corporation; also a member, on the part of the directory, of the Board of Reference and Control, and of the Bureau of Admission and Collection; besides exercising the arduous functions of chairman of the Committee on Finance. Among other claims upon his busy life which signify the estimation in which his administrative capacity is held, he is now the incumbent of the following positions:

President of the Chicago Athenaeum; president of the Auditorium Association; president of the Chicago Opera Festival Association; trustee of the New Chicago University; vice-president of the Illinois Humane Society; President of the Union League Club. Mr. Peck has also served for four years as a member and vice-president of the Board of Education.

The work which, perhaps, most worthy interprets and emphasizes the ardor and resolution with which Mr. Peck carries his plans to accomplishment, is the vast and magnificent Auditorium building. For while many others contributed moral and financial support to the undertaking, the idea originated with him, and to his persistent labors and dauntless disregard of obstacles the costly structure is a worthy monument.

Mr. Peck has not sacrificed to business, or to the public welfare, his natural taste for domestic and social enjoyments. He was married in 1872 to Miss Tilla, daughter of W. A. Spaulding of Chicago, and has an interesting family of four sons and two daughters. His recreations are found in those refined pleasures which adorn and elevate the home circle, and his love of music is as near a passion as a well-regulated mind permits.]

Secretary.—The Secretary, Mr. Howard O. Edmonds, is the custodian of the records of the board, and of its committees and of the corporate seal. He attests all contracts binding the corporation, issues certificates for the paid up shares of the capital stock and the bonds to the amount of $5,000,000, authorized by the board.

[Howard O. Edmonds, Secretary of the World's Columbian Exposition, is the youngest of the officers of the enterprise. He is a Pennsylvanian by birth, and is twenty-eight years of age. He served four years on the staff of the Evening-Star, of Washington, D. C., and was subsequently private secretary to Assistant Postmaster General Whitfield, during the first portion of the Harrison administration. This position he resigned in order to accept a similar one with the Hon. Benjamin Butterworth when the latter became secretary of the World's Columbian Exposition, and in April, 1892, when Mr. Butterworth declined to serve another term as secretary, Mr. Edmonds was elected to succeed him. He has the custody of the records of the corporation, the issue of stock certificates, bonds, etc. Mr. Edmonds is a member of the Illinois bar.]

Assistant Secretary.—The assistant secretary, Samuel A. Crawford, is the secretary of the Committee on Ways and Means, and acts in the absence of the secretary.

These four officers, president, two vice-presidents and secretary, constitute what is known as the Executive Department of the World's Columbian Exposition, the function of which is to carry out and into effect the instructions from the Board of Directors, or the committees thereof, in matters within their jurisdiction.

Treasurer.—The treasurer, Mr. Anthony F. Seeberger, performs the duties incident to the office of treasurer in all corporations. He is required to keep and account for all moneys, funds and other property of the company coming into his hands, which consists of the payments upon stock subscriptions, the proceeds of City of Chicago bonds in aid of the Exposition, the proceeds of Exposition six per cent. debenture bonds, the proceeds of the appropriation of Columbian souvenir half-dollars and the receipts from percentages paid by concessionaires, the receipts from gate admissions, etc. It is estimated that from the organization of the corporation to the
OFFICERS OF THE WORLD'S CONGRESS AUXILIARY.

1. Thomas B. Bryan, Vice-President.
2. Lyman J. Gage, President.
3. Benjamin Butterworth, Secretary.
4. Charles C. Boxey, Secretary.
5. C. E. Yoss, Secretary.
OFFICERS OF BUREAU OF ADMISSIONS AND COLLECTIONS.

1. Horace Tucker, Ass't Supt. of Admissions.
2. Paul Blackmar, Supt. of Collections.
3. E. A. Felder, Ass't, Supt. of Admissions.
4. Wm. E. Cash, Ass't, Supt. of Collections.

LAW DEPARTMENT WORLD'S COLUMBIAN EXPOSITION.

4. Chas. H. Baldwin, Ass't, Attorney.
close of the Exposition, October 30, 1893, the treasurer will have received in round numbers $35,000,000 from all sources, and will have paid out for the preparation and operation of the Exposition from $22,500,000 to $23,000,000.

The auditor, Mr. William K. Ackerman, has charge of the principal books of account of the company and exercises general supervision over the accounts of the various departments. He is the custodian of the property of the corporation and keeps an inventory of the same and is required to examine, from time to time, the books, papers and accounts of the treasurer.

Executive Committee.—The Executive Committee is composed of the president, vice-presidents, and ex-presidents of the Board of Directors, together with the chairman of each of the standing committees which chairmen are appointed by the president. The Executive Committee meets regularly once a week and as much oftener as the business of the corporation requires. It has the power to manage and direct the affairs of the company in all matters except as otherwise directed in the by-laws.

STANDING COMMITTEES.

In addition to the Executive Committee the committees of the board are:

Committee on Finance.—Consisting of five members, having jurisdiction in all matters pertaining to the financial management of the company, of accounts, salaries and appropriations.

Committee on Legislation.—Consisting of five members, having jurisdiction in all matters pertaining to Federal, State and municipal legislation, legal matters, arbitration, litigation, and the employment of counsel and solicitors.

Committee on Ways and Means.—Consisting of thirteen members, having charge of raising money through subscriptions to the capital stock, or otherwise, collections due on subscriptions, fixing prices for admission, negotiation of contracts for concessions, privileges, and things pertaining thereto, to deciding upon the scope thereof, subject to the approval of the Board of Directors.

Committee on Grounds and Buildings.—Consisting of seven members.

Committee on Agriculture.—Consisting of five members.

Committee on Mines and Mining.—Consisting of five members.

Committee on Press and Printing.—Consisting of five members.

Committee on Transportation.—Consisting of five members.

Committee on Fine Arts.—Consisting of five members.

Committee on Liberal Arts.—Consisting of five members.

Committee on Electricity, Electrical and Pneumatic Appliances.—Consisting of five members.

Committee on Manufactures and Machinery.—Consisting of five members.

Committee on Foreign Exhibits.—Consisting of five members.

The committees have jurisdiction of such matters as are, from time to time, referred to them by the Board of Directors or the Executive Committee, the object of the creation being to provide the necessary means for exercising proper supervision over the expenditures of moneys of the corporation by the corresponding departments under the Director-General.

Law Department.—The Law Department is composed of an attorney, William K. Carlisle, and two assistant attorneys, George Packard and Charles H. Baldwin, the latter being detailed for duty in the Department of Works upon the grounds. In addition to these, the Committee on Ways and Means has as its attorney, Mr. Joseph Cummins, who prepares all contracts for concessions, etc., and the legal advisor of the same committee. The Law Department is under the supervision of the Committee on Legislation, the chairman of which, Director Edwin Walker, renders service as the legal advisor of the corporation in matters of weight continually arising in the course of the work. All contracts of the corporation covering the purchase of material, construction operations, or for privileges and concessions during the Exposition period, are supervised by the attorney and receive his approval before being executed by the officers of the corporation.
COUNCIL OF ADMINISTRATION.

The Council of Administration is the center of authority for the administration of the Exposition. This body has absolute and final jurisdiction and control over all matters of general administration of the Exposition and the employment of all agencies necessary thereto, except that it can not expend the moneys of the World's Columbian Exposition in other than such amounts as are specifically appropriated for the use of the council by the Board of Directors or its Executive Committee; nor can it expend any moneys appropriated by Congress on account of the World's Columbian Commission, unless expressly authorized to do so by the Commission or its Board of Control. The Council is composed of two members of the Board of Directors of the World's Columbian Exposition, appointed by said Board, and two members of the Board of Control of the World's Columbian Commission, chosen by that body. The Council of Administration was created by an agreement drawn up by the joint board of Reference and Control of the Commission and Exposition, August 18, 1892, in a conference called for the purpose of providing for the general administration of the Exposition and the installation of exhibits. By the terms of this agreement the Director-General, who is an officer of the World's Columbian Commission, and the Director of Works, who is an officer of the World's Columbian Exposition, together with the entire forces under their control, were placed under and subject to the control and direction of the council. The members of the council are H. N. Higinbotham, Chairman, and Charles H. Schwab for the World's Columbian Exposition, and George V. Massey and J. W. St. Clair for the World's Columbian Commission.

By means of the agreement creating the Council of Administration the powers and duties conferred by law upon the two great organizations connected with the Exposition enterprise were concentrated in this body, and it has control upon the one hand of the great departments organized under the Director-General for dealing with exhibitors and the representatives of foreign nations, and on the other hand of the forces organized under the Director of Works for the physical operation of the Exposition. The council transacts its business mainly through these two officers.

Bureau of Admissions and Collections.—The Bureau of Admissions and Collections was created by a rule adopted by the Board of Directors of the World's Columbian Exposition and approved by the World's Columbian Commission in November, 1892. It consists of the president, treasurer and auditor, and the chairman of the Committees on Ways and Means and Finance of the World's Columbian Exposition. The chairman of the Committee on Ways and Means is also the chairman of the bureau.

The work of the bureau is divided into a Department of Admissions, which has charge of the gates, the selling of tickets of admission, the collection of the same and rendering of gate receipts into the treasury; and a Department of Collections, which has charge of the auditing of all concessions within the Exposition grounds and the settlement between concessionaires and the Exposition for the percentages due the latter. The Department of Collections also has charge of the collection of all sums due the Exposition from exhibitors, State World's Fair Boards and others.

Department of Admissions.—This department is under the charge of Mr. Horace Tucker, as superintendent, who appoints all ticket sellers and collectors of tickets at the entrances to the Exposition and at offices located in the city along the lines of railroads and upon the pier at Van Buren street and at the Exposition grounds. He has also the control and issuance of complimentary cards of admission, photographic pass books, passes, etc., and maintains a complete record of all admissions. The service in the Department of Admissions requires in all about 400 men. The ticket sellers and collectors are so organized that three reliefs daily are made, making the service average to each man eight hours per day. The office of the superintendent is located in the grounds of the Exposition, near the Sixty-second street entrance. In addition to the ticket sellers and collectors an organized force has been provided to promptly furnish to the heads of departments the requisite information daily required in the shape of reports. All ticket sellers and collectors are under bond to the department, as well as to the treasurer, for all tickets and money received.

The arrangement of the ticket booths and entrances at all points on the ground are of such a character and number that visitors will not be delayed. Altogether there are 326 turnstiles, 97 ticket booths, 132 ticket windows and 172 exit gates. At the most conservative estimate the entrances are considered capable of admitting 2,000 people each an hour, which gives a total admission capacity of 500,000 an hour if the attendance could be distributed equally at all the gates. As it is the great crowds concentrated at the most prominent entrances are able to pass as rapidly as the transportation lines can bring them.
GOUNCIL OF ADMINISTRATION WORLD'S COLUMBIAN EXPOSITION.

1. Geo. V. Massey,
National Commissioner from Delaware.

2. J. W. St. Clair,
National Commissioner from West Virginia.

3. Chas. H. Schmook,
Director World's Columbian Exposition.

4. H. H. Higginbotham,
President World's Columbian Exposition.

5. A. W. Sawyer,
Secretary.
The entrance facilities provided are as follows:

<table>
<thead>
<tr>
<th>ENTRANCES</th>
<th>Turnstiles</th>
<th>Ticket</th>
<th>Windows</th>
<th>Exit Gates</th>
</tr>
</thead>
<tbody>
<tr>
<td>North End</td>
<td>Cornell avenue</td>
<td>4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Fifty-seventh street</td>
<td>11</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Fifty-ninth street</td>
<td>6</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>28</strong></td>
<td><strong>10</strong></td>
<td><strong>20</strong></td>
</tr>
<tr>
<td>South End</td>
<td>Sixtieth street</td>
<td>12</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Sixty-second street</td>
<td>10</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Sixty-fourth street</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Woodlawn avenue</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Southwest corner park</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Palmer avenue</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>37</strong></td>
<td><strong>17</strong></td>
<td><strong>33</strong></td>
</tr>
<tr>
<td>Midway Plaisance</td>
<td>Madison avenue (N)</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Woodlawn avenue (N)</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Cottage Grove avenue</td>
<td>10</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Woodlawn avenue (south)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Madison avenue</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>16</strong></td>
<td><strong>10</strong></td>
<td><strong>16</strong></td>
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<tr>
<td>Terminal station</td>
<td></td>
<td><strong>96</strong></td>
<td><strong>13</strong></td>
<td><strong>26</strong></td>
</tr>
<tr>
<td>Elevated railroad</td>
<td></td>
<td><strong>16</strong></td>
<td><strong>4</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>Intramural</td>
<td></td>
<td></td>
<td><strong>4</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>Steamer Landings</td>
<td>Casino pier</td>
<td><strong>100</strong></td>
<td><strong>10</strong></td>
<td><strong>20</strong></td>
</tr>
<tr>
<td></td>
<td>Naval pier</td>
<td><strong>6</strong></td>
<td><strong>1</strong></td>
<td><strong>2</strong></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>106</strong></td>
<td><strong>11</strong></td>
<td><strong>22</strong></td>
</tr>
<tr>
<td>Grand totals</td>
<td></td>
<td><strong>187</strong></td>
<td><strong>48</strong></td>
<td><strong>91</strong></td>
</tr>
</tbody>
</table>

The gate device is a new invention. It is of the ordinary turnstile pattern, except that the ticket dropped into a slot on one side releases the turnstile on the other side of the ticket and registers by an automatic arrangement. The man in charge has no duty except to see that the proper coupon or ticket is dropped. The exits are independent of the entrances and so relieve the crowd around the gates. When the ticket is deposited it is chopped with an automatic cutter that takes three big sections out of one side of the ticket and two out of the other, preventing any further use of the ticket.

Contracts were let for furnishing 35,000,000 admission tickets. Of these 5,000,000 were lithographed, and of such elaborate workmanship that counterfeiting them will be next to impossible. These were designed to meet the advance orders for tickets, and they will be good whenever presented at the gates. The remaining 30,000,000 are simply printed after the style of an ordinary railroad ticket. These tickets are not all alike, and a different style will be used each day. They will be good only on the day on which they are sold, and will not be offered to the public in advance of that day. The entire issue can be changed at any hour of the day if it should be found necessary. Thousands of complimentary cards and passes had to be issued. The list includes the high officials of the government, the diplomatic corps, governors, Exposition commissioners, directors, lady managers, exhibitors, employes, members of the press, etc. Nearly all of the passes have affixed the photograph of the holder to prevent their being transferred.

To facilitate the sale of tickets so that visitors can avoid delay at the gates if they desire, Superintendent Tucker arranged with the principal down-town hotels, merchants, railroad and boat lines to establish branch ticket offices, and tickets are on sale at numerous convenient places.

The passes are composed of coupon-books. The front cover bears the Exposition’s corporate title, while below it are inscribed the holder’s name, the account for which it is issued, the department to which it is charged, and Mr. Tucker’s signature. Inside on the cover is an engraved circle containing the owner’s photograph. On the outside of the back cover is a vignette of Columbus following the design on the souvenir coin. The coupons bear successive dates in heavy black letters, beginning with May 1 and closing with October 30. On each is stamped: “Not good if detached.” In addition to those good throughout the season, there are books good for individual months for such as need them for a given month only. Then there are complimentary cards of exceptionally fine design for guests of distinction such as the President of the United States, members of the cabinet, etc. When the owner of a complimentary ticket passes the gate he will drop his individual card in the collector’s box, so the turnstile can be opened.
A charge of $1 is made for each coupon-book issued, to cover the cost of the book and the leather envelope which goes with it. In addition, special badges are issued to exhibitors and their employees, for which a deposit of $2 is required as a guaranty that the badge will be returned.

Department of Collections.—The Department of Collections has charge of the collection of all moneys which may become due the World's Columbian Exposition on account of privileges or concessions; also the collection of all moneys due from exhibitors and State World's Fair Boards. This department is under the charge of Mr. Paul Blackmar, as superintendent, and Mr. W. E. Cash, assistant superintendent. Contracts for privileges or concessions upon the Exposition grounds number considerably over 200, and include the special attractions located upon Midway Plaisance, such as the German Village, the Irish Villages, the Ferris Wheel, the Lithia Glass Emporium, the Cycloramas, etc.; also the restaurants located on various parts of the grounds; the Elevated Intramural Electric Railway; steam and electric launces and gondolas upon the lagoons and adjacent waters of the lake; wheel chairs and booths; for the sale of articles of consumption and interesting curiosities, mementoes and souvenirs. The work of this department includes not only the collecting of the percentage of the Exposition Company from concessionaires, but involves the creation of systems to protect concessionaires so that they may receive the full proceeds of all goods sold, protecting them against fraud on the part of customers or their own employees. The department has created ninety-five per cent. of the systems of collection from customers, which is in use upon the grounds. There are about 3,500 stations or places where money is received within the grounds. This department undertakes to supervise or control the receipt of money at all these places, and the accounting for it to the concessionaires, and afterward accounting for the percentage due the Exposition Company from the concessionaires. The employees number nearly five hundred.

Director-General.—For duties and functions of the Director-General and department chiefs under him, see World's Columbian Commission.

Director of Works.—Mr. Daniel Burnham, Director of Works, was born in Henderson, N. Y., 1854. In 1855 his parents moved to Chicago, where Mr. Burnham has since lived, with the exception of two years spent in study in the East, and one year which, as a young man, he spent in the activity of camp and mining life in Nevada. Upon his return to Chicago, he at once resumed his architectural studies, forming a partnership with the late John W. Root in 1873, since which time he has been continuously engaged in the practice of his profession. Mr. Burnham's connection with the Exposition commenced shortly after Chicago had been selected as its site, he and his partner having up numerous preliminary plans in the early summer of 1890. September 2d, of the same year, he was appointed as consulting architect and remained in this capacity for but a few weeks, Mr. Burnham having been made chief of construction in October, 1890, and Mr. Root remaining as consulting architect. The plan finally adopted, after much discussion, for the selection of architects to design the buildings of the Exposition, was Mr. Burnham's, and upon him devolved the duty of securing the services of the various men. This very important function having been successfully carried out under the most trying circumstances (for it was during these days which required the most steady hand at the helm that Mr. Burnham lost by death his partner and boyhood friend), further organization of the work proceeded by the formulation of an active working corps. He was most fortunate in his selection of his immediate staff, notwithstanding the fact that the pressure of time did not warrant the deliberation in picking his lieutenants which, under the circumstances would have seemed necessary, but which, as results have shown, could not have been more successful. Mr. Burnham has been called upon since the commencement of his work to assume, by reason of death and resignation, in addition to his other heavy duties, those of Consulting Architect, Chief Engineer and General Manager of the Mechanical and Electrical Work (these being the two greatest plants of their character ever brought into successful operation, throughout the entire work he has sacrificed to the Exposition his own personal interest and given his time almost unreservedly to this work, making his headquarters at Jackson Park in the very heart of the activity. He has been most intimately and directly associated with each of the many problems arising and necessary of solution before the completion of the work was assured. He had had from the beginning of the work, the general charge of the construction of buildings and supervision of the business thereof, the preparation of the grounds and engineering incident to a proper prosecution of the entire work. He has had the supervision of the buildings erected by outside parties and the maintenance of all buildings belonging to the Exposition. He has been required to examine all bids and propositions for work under his control, and to organize bureaus of architecture, engineering, landscape gardening, sanitation; to hire and dismiss all employes in his department, and fix, subject to approval, the compensation for their services. He has the employment (subject to the approval or confirmation of the Council of Administration) and general charge of all the working forces within the grounds of the Exposition necessary to the maintenance of order, the protection of property from fire or other destructive elements, to supply heat, gas, light, power and water to the buildings and service of the grounds and all service necessary to the practical administration of the Exposition inside the grounds.

Assistant-Director of Works.—Mr. E. R. Graham, the assistant director of works, is the practical representative of the director of works and acts in his absence.

Mechanical Engineer.—Mr. Charles F. Foster, the mechanical engineer, has control of the power plant, which numbers over thirty engines.

Electrical Engineer.—Mr. R. H. Pierce, the electrical engineer, has charge of the entire electrical power on the grounds.
D. H. BURNHAM,
DIRECTOR OF WORKS, WORLD'S COLUMBIAN EXPOSITION.
Secretary of Works.—The secretary of works has charge of records, correspondence, etc., of the Department of Works, and in a general way performs all the duties incident to the office of a secretary.

Landscape Architects.—The advice of the landscape architects was first asked in July, 1890, when the project of the Exposition could be no more exactly defined than by the statement that it was to be of a character generally similar to that of previous World’s Fairs, but on a somewhat larger scale than the largest of them had been. Only the purposes and dimensions could be stated: the building on the Fairground at that point the architects were employed. It developed very gradually, additional buildings requiring to be introduced, and buildings early contemplated requiring to be eliminated, from time to time, until within a month of the opening ceremony. Hence it was necessary that the primary plan should have an elastic quality, admitting much adjustment, as the project developed. Such a primary plan was submitted by the landscape architects and adopted by the National Commission in December, 1890. Since that time it has been the duty of the landscape architects, first, to devise adjustments of the primary plan by which it would be fitted to innumerable requirements, as from week to week occasion for them was presented; secondly, to prepare detailed and working plans for carrying out such parts of the general plan as have not come within the functions of the architects, engineers and other technical departments; thirdly, to specify the material and direct the operation required for the carrying out of these plans, more especially those pertaining to the modeling of the surface, the outlining of the terraces and shores; the construction of the roads and walks, and the forming of the plantations and landscape decorations. They have also planned the provisions for boating and for stocking the lagoons with water fowl, and have been in consultation with the architects and engineers in respect to innumerable adjustments of their work to the requirements of the general landscape design.

Director of Decoration.—At the date of his appointment, June 1, 1892, Mr. F. D. Millet found his predecessor had given out by contract the painting and glazing of the buildings already built or in course of construction. After a month or more spent in the study of the roofs and general mechanical painting, he contracted with various persons to paint the buildings, decorate the domes, and for the production of statuary—such as the quadriga for the water-gate; bulls and horses, with attendant men, to occupy the pedestals at the landings of the Grand Court; Neptune for the rostral column; figures for the Peristyle and for the hemicycle of the Electricity Building, and for the decoration of the galleries of the Fine Arts Building. In October Mr. Millet decided that a painting machine could be used to great advantage in doing the mechanical painting of the interiors, on account of the great amount of rough timber used in the construction, and the great quantity of bridging. After a few experiments, work was begun in the Agricultural Building, by the use of a Turner air-compressor, run by an electric motor. The great saving of time by the use of this machine warranted the acquisition of more of the same kind, and several of these machines were purchased immediately. That Mr. Millet’s decision in this respect was a wise one has been proven, inasmuch as the painting of the interiors (the magnitude of which has never been equaled) was completed very much sooner than was expected, and at figures much lower than the closest estimates. The dedicatory ceremonies demoralized the work of this department to a serious degree, because the time in which the decorations had to be made was so short that the entire force had to be detailed for this work and great expense incurred. Early in December, Mr. Millet organized the drapery department, for the manufacture of skylight shades, awnings, flags, etc. In addition to the regular work of the department, the director of decoration superintended the repairing of the roofs of the Exposition buildings. The working force of this department comprises house painters, glaziers, fresco painters, sign painters, machinists, tin-smiths, roofers, engineers, laborers, sailmakers, upholsterers and sewing-women. In the supervision of both decorative and mechanical painting, sculpture work, manufacture of flags, awnings, shades and banners, and also guarding the many pleasing effects he has contrived to bring about, to see that the beauty thereof is not marred by the location of some unimportant structure, or else by a harlequin decoration, the director of decoration finds something with which to busy himself at all times.

General Manager of Transportation.—Shortly after the appointment of Mr. D. H. Burnham, as Chief of Construction, in October, 1890, he organized the Bureau of Railroads with Mr. E. G. Nourse, Engineer of Railroads at its head. The first problem was to lay a railroad track into the grounds, from the Illinois Central Railroad, the only railroad then adjacent to the park. This track was laid across the Midway Plaisance into the southern part of the park where a yard was laid out; into this yard all the construction material was shipped, first over the Illinois Central Railroad alone, and afterward over that and the Baltimore & Ohio Railroad, which company laid two tracks up to the south end of the park. Tracks were laid from this yard to each of the large buildings and elsewhere, which tracks were shifted around or taken up and relaid as the exigencies of the case required; in all nineteen miles of such track were laid and 31,371 cars of construction material had come in over these tracks up to April 1, 1893.

The next problem was the consideration of a passenger terminal. This proved a very vexatious problem. Many different solutions were involved by the Bureau of Railroads. Suggestions were made by many railroad officials and other people who took an interest in the matter. Mr. Baker, President of the World’s Columbian Exposition, at about this time, December 15, 1891, obtained the services of Mr. W. H. Holcomb, a veteran railroad manager, as his assistan in this matter, and he and Mr. Nourse labored together from this time on. Many conferences were held with the various railroads centering in Chicago. In the meantime the necessity of
enlarging Machinery Hall and the construction of other buildings not at first contemplated largely circumscribed the possibilities of the case, so that finally the present system was settled upon by the parties in interest as the best that could be done under the circumstances. At this time Mr. Holcomb was made General Manager of Transportation under Mr. Burnham, and Mr. Nourse became his assistant.

The next problem was the installation of exhibits. To the Transportation Department was now assigned the duty of unloading the exhibits and placing them on or adjacent to the spaces they occupy in the various buildings.

For the completion of this undertaking certain tracks were laid in and around the buildings. About ten miles only of these tracks could be laid, and already the department has been compelled to suffer the loss of quite a portion of these tracks.

In the meantime the present terminal system was pushed to completion, and the terminal tracks proper were used as team tracks for the unloading of exhibits. There are in the terminal seventeen miles of track, and thirty-five tracks upon which passenger trains can be unloaded or unloaded at once. One thousand cars can stand on the tracks of this terminal at one time and be in easy access of teams for unloading. Many wagons and teams were hired and the work of unloading and installing of exhibits proceeded as rapidly as they arrived. This, of course, required an army of men. Warehouses for empty packing cases have been built and to them are transported such empty boxes as exhibitors wish to pay storage on. The terminal yard is fenced in and operated during the Exposition under the direction of the Transportation Department.

As the terminal can and probably will be reached by local and excursion trains over every railroad entering in Chicago, the problem is not considered a light one. In addition to this work, the handling of all the supplies for the restaurants and other concessions inside the park are under and by this department. This is mostly night work, but when it is considered that food and drink for a large army or city must be handled daily with the utmost promptness and dispatch, it can readily be seen that this is not the easiest of the various problems entrusted to this department. Then, too, during the Exposition a report must be gotten out. This will be a laborious and necessarily arduous undertaking to render an account of the doings of the department from its inception to the close of the Exposition. But the end is not yet. The buildings and exhibits must be taken down and removed and the park returned as near as can be to its former condition. In this work it is possible that the Transportation Department may take a hand.

Commandant Columbian Guard.—The commandant has control of the Columbian Guard and as such is the conservator of the peace, quiet and dignity at the Exposition.

Chief Engineer.—This official designed the roof trusses, foundations, the timber framing and the iron work of all Exposition buildings, including the arches over the court of the Manufactures and Liberal Arts Building and the arches of Machinery Hall. He also made drawings of the same; supervised all constructional drawings made by the architectural force; made plans of the bridges, piers, docks and viaducts; examined the constructional and foundation plans of all the State, foreign and concession buildings and structures, and made changes wherever necessary; examined all plans submitted by the exhibitors in cases where it was necessary to cut through the floors, or in any way affect the construction of the buildings. He is responsible for the construction of the buildings, docks, piers, bridges and viaducts, and during the Exposition will look after them as far as their construction is concerned.

Engineer of Grades and Surveys.—This office was created on November 1, 1890, and the engineer was charged with the duty of executing all surveys of grades, the laying out of the plans of the buildings, docks, piers, bridges, pipelines, and other plans which had been designed by the heads of the various departments, and seeing that a perfect record was kept which would involve uniformity in all these various plans. The Department of Surveys and Grades was also charged with preliminary clearing, grading and dredging, which work was completed in the summer of 1890. It has also charge of the maps, atlases and other records of the layout of the Exposition; and further, has charge of the construction and maintenance of the roads, pavements and walks. It employed an average of seventy-five engineers, draughtsmen, rodmen and chainmen, during the period of construction. The duties of the Engineer of Surveys and Grades during the Exposition will be: first, custodian of records showing space and assignments; secondly, preparation and distribution of necessary maps and data; thirdly, care and maintenance of roadway; fourthly, the furnishing of official information drawn from records of his office.

Chief Draftsman.—The Architectural Department, conducted by the chief draftsman, was organized April 1, 1891, and in a short time, a large force of draftsmen were employed in making drawings for the main buildings of the Exposition; the designs having been previously made by the appointed architects for these buildings. The time allowed for this work being so short, and the expediency of getting these numerous buildings under contract so important, every effort was made to get the drawings in condition for the main contracts so that these could be begun, and the work progress on all buildings at the earliest possible moment.

To facilitate the progress of estimating on the buildings there were furnished thirty complete copies of each set of drawings on each building, to enable a large number of contractors to estimate at the same time. After contracts were let, each drawing having been previously approved by the chief engineer, the full size and scale details were then made of every building. This involved more drawings and labor on each building after the letting of the contracts than had been required previously. The force to carry on this work required at the start from forty to as many as seventy draftsmen during the fall of 1891, and probably averaged fifty men throughout the two years of its existence. These draftsmen were constantly consult with and working in the
DIRECTOR OF WORKS AND OFFICERS.

2. Chas. B. Atwood, Designer-in-Chief.
3. F. D. Millet, Director of Decoration.
4. W. H. Holcomb, Gen'l Mgr. of Transportation.
6. M. B. Pickett, Secretary of Works.
7. D. H. Burnham, Director of Works.
9. John D. Owens, Medical Director.
13. F. D. Cloys, Chief Draftsman.
1. Chas. F. Foster, 
   Electrical Engineer.
2. E. D. Allen, 
   Supt. Painting.
3. R. H. Pierce, 
   Electrical Engineer.
4. E. W. Murphy, 
   Fire Marshal.
5. G. H. Brinkley, 
   Asst. Eng. Surveys and Grades.
6. E. R. Loring, 
   Supt. Plumbing.
7. E. G. Nourse, 
8. A. C. Speed, 
   Supt. Electricity Building.
9. J. K. Freitag, 
   Building Superintendent.
10. Max Young, 
    Supt. Machinery Hall and Colonnade.
11. W. E. Brown, 
    Supt. Transportation Building.
12. W. E. Brown, 
    Supt. Machinery Hall and Colonnade.
connection with the engineers in the department of the chief engineer, the labors of these two departments being of such a nature that the one could not proceed without the harmonious co-operation of the other. Besides making all necessary drawings for each building, with the exception of the trusses, etc., before letting contracts, careful and accurate specifications were made of each particular contract, specifying in detail, material and manner of construction, and giving the time for the completion of the contract. Besides preparing drawings and specifications for the letting of contracts on these buildings, it is the duty of this department to make a final acceptance of all these contracts, which means a checking up of all specifications and work at the buildings, after having been delivered by the contractor to the construction department. It is expected that this force will be materially reduced, as most of the work required after the opening of the Exposition is in checking over contracts, carefully filing existing drawings, and making a record set of drawings of each building, showing completely, all monifications which have been made in the plans from the first beginning. While the force of this department has been greatly diminished during the last three or four months, it has been done by transferring the draftsmen from time to time to the various offices of the chiefs of the different buildings, as they were required for the purpose of laying out drawings for the installation of exhibits, directly under the charge of the chief of each building.

Medical Director.—The duties of the medical director from the time of the establishment of the position were: To organize a medical bureau having jurisdiction over all cases of personal injury occurring in the line of duty, and such other cases as the Exposition Company may be responsible for, or which in its judgment should be cared for; also all sanitary and hygienic matters connected with the grounds and buildings and all matters pertaining to the health and physical well-being of all the construction forces and the employees who are engaged in the conduct of the Exposition.

He is required to keep such records and data regarding his bureau as will enable him to make monthly reports to the Committee on Grounds and Buildings, and a final report after the close of the Exposition, of the work of his bureau. The office of the Medical Bureau was opened June 1, 1891. The period was, for the sake of convenience and statistics, divided into the pre-Exposition period, the Exposition period, and the post-Exposition period. The bureau had 54,924 cases to April 1st; 9,860 of these being surgical, 2,184 medical.

Upon the medical director during the Exposition will devolve the care of the sick and injured visitors, of the resident population and of the employees upon the grounds; regulation of sanitary matters; inspection of grounds and buildings, etc. The Emergency Hospital is in one portion of the Service Building, and comprises one-fourth of the building.

The hospital contains, on the first floor, the following: Two wards, of ten beds each, for men; one ward of ten and another of three beds for women; medical director's office; resident physician's office; office of the superintendent of nurses; diet kitchen; drug room; linen and clothes closets; two examining and operating rooms and closets; reception room and two waiting rooms—one for men and one for women.

On the second floor are the dormitories for nurses and physicians.

No patient will be permitted to remain in this hospital over night. It is essentially an Emergency Hospital.

On account of the extent of the grounds, it was necessary to establish two sub-stations, or sub-hospital, one for each of these three or four beds for males and the same number for females. One of these is located at the east end of Midway Plaisance, and another east of Guard Station No. 7, between Machinery Hall and the Terminal railway station.

There are four ambulances. Two are stationed near the Emergency Hospital and one contiguous to each of the sub-stations. In addition, fifty invalid chairs are used for the transportation of the sick to boat, sub-station or hospital. A trained ambulance corps and a physician is detailed for each ambulance.

An electric launch, to patrol the lagoon, is in the service of the Medical Bureau. It performs the function of an ambulance, as well as that of a sub-station, or sub-hospital.

In the Emergency Hospital there are two resident physicians, a corps of attending physicians, hospital steward, orderlies for stretcher work, and druggists. There are also a superintendent of nurses, a surgical nurse, and a corps of trained nurses in addition, for the hospital. There are trained nurses and attending physicians at the sub-stations, and also upon the electric launch. One hundred and fifty stretchers are apportioned to the various buildings as follows: Manufactures Building, 92; Woman's Building, 19; Horticultural Building, 9; Fisheries Building, 6; Building, 4; Government Building, 1; Stock Pavilion, 2; Mining Building, 8; Electricity Building, 8; Transportation Exhibits Building, 1; Bonded Warehouses, 2; Packing Case Buildings, 2; Saw Mill, 2; Music Hall, 4; Recital Hall, 1.

The steam launch takes patients from any landing. The chief landing for this launch is at the north end of the Transportation Exhibits Building, close to the Emergency Hospital, to which patients will be conveyed by invalid chairs, or by hand litters, when necessary.

Upon the flag of this department is seen, in the center, the Geneva cross and the words "Medical Bureau." Upon the lettings of contracts on these buildings, it is the duty of this department to make a final acceptance of all these contracts, which means a checking up of all specifications and work at the buildings, after having been delivered by the contractor to the construction department. It is expected that this force will be materially reduced, as most of the work required after the opening of the Exposition is in checking over contracts, carefully filing existing drawings, and making a record set of drawings of each building, showing completely, all monifications which have been made in the plans from the first beginning. While the force of this department has been greatly diminished during the last three or four months, it has been done by transferring the draftsmen from time to time to the various offices of the chiefs of the different buildings, as they were required for the purpose of laying out drawings for the installation of exhibits, directly under the charge of the chief of each building.

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has a gold center, the circumference of which is of blue enamel, which, with the silvered poppies and the sealing-wax red of the Geneva cross, make the national colors, red, white and blue. The badge is also upon the sides of the ambulances and the boat. The nurse's badge is the same as that of the attending physicians, minus the poppy heads. All other attachés of the Medical Bureau wear the central circular portion of the badge, silvered, without cross and without poppies.

All of the physicians are educated and experienced men, selected on account of their fitness for the position which they occupy.

The function of the bureau is to minister to the sick and the injured upon the grounds; to look after sanitary matters, etc.

This hospital is in no sense an exhibit, but its corps of workers will doubtless be actively engaged in caring for those who require its services.

The physicians are clothed in navy blue uniform; all others in gray, trimmed with green. The nurses wear the uniforms of their schools, respectively.

At the close of the gates, or before, patients who are dangerously hurt or seriously ill will be removed to their residences, boarding houses, to a hospital, or referred to outside physicians.

Sub-stations, hospital and launch have telephone connections. The service is free.
MEMBERS OF THE BOARD OF LADY MANAGERS.

7. Mrs. Mary A. Hart, Ohio.
12. Mrs. I. J. Austin, Alaska.

5. Mrs. Rufus S. Frost, Massachusetts.
8. Mrs. Walter Hartpence, Ohio.

4. Mrs. Virginia C. Meredith, Indiana.
10. Mrs. Frances E. Hall, Wyoming.
MEMBERS OF THE BOARD OF LADY MANAGERS.

1. Mrs. Mary Kinder, Delaware.
2. Mrs. J. Frank Ball, Delaware.
3. Mrs. J. Eliza Rickards, Montana.
5. Mrs. J. Eliza Rickards, Montana.
7. Mrs. S. W. McLaughlin, North Dakota.
9. Mrs. Jno. R. Wilson, South Dakota.
10. Mrs. H. M. Barker, South Dakota.
11. Mrs. Mary A. Cochran, Texas.
12. Mrs. Ida Loving Turner, Texas.
15. Mrs. E. C. Langworthy, Nebraska.
BOARD OF LADY MANAGERS.

President, Mrs. Potter Palmer, Chicago; First Vice-President, Mrs. Ralph Trautmann, New York; Second Vice-President, Mrs. Edwin C. Burleigh, Maine; Third Vice-President, Mrs. Charles Price, North Carolina; Fourth Vice-President, Miss Katherine L. Minor, Louisiana; Fifth Vice-President, Mrs. Beriah Wilkins, District of Columbia; Sixth Vice-President, Mrs. M. D. Thatcher, Colorado; Seventh Vice-President, Mrs. Flora Beall Ginty, Wisconsin; Eighth Vice-President, Mrs. Margaret Blaine, Salisbury, Utah; Vice-President-at-Large, Mrs. Russell B. Harrison, Montana; Vice-Chairman Executive Committee, Mrs. Virginia C. Meredith, Indiana; Secretary, Mrs. Susan G. Cooke, Tennessee.


[For the names of members and alternates from the States and Territories, see "State and Territorial Buildings and Officials."]

The Act of Congress creating the World's Columbian Commission, authorized and required the appointment of a Board of Lady Managers. The Board consists of two women from each State and Territory and the District of Columbia, nominated by Commissioners from the several States and Territories and the District of Columbia, and of one woman, nominated by each of the Commissioners-at-large and appointed by the President, and also nine women of the city of Chicago appointed by the President, and a like number of alternates, appointed in the same manner as the principals, and who assume the duties and functions of such principals only when the principals are unable to attend.

Each member of the Board is entitled to receive $6 per day for each day necessarily absent from home engaged in the work of the Board, and also the expenses for transportation actually incurred by her on that account. The alternates receive no compensation nor expenses for transportation, except in cases where their principals are unable to attend to the duties assigned to them.

In accordance with resolutions of the Executive Committee of the World's Columbian Commission, adopted October 21, 1890, authorizing the organization of the Board of Lady Managers, "And said Commission is authorized and required to appoint a Board of Lady Managers of such number and to perform such duties as may be prescribed by said Commission. Said Board may appoint one or more members of all committees authorized to award prizes for exhibits which may be produced in whole or in part by female labor," President T. W. Palmer and Secretary John T. Dickinson were requested to make arrangements to secure a suitable hall in which the Board could hold its meetings. It was further requested that President Palmer call the Board to order at 12 o'clock M., November 19, 1890, and preside until they elected a chairman and secretary, and that Secretary Dickinson officiate as secretary. This first meeting was held at Kinsley's Hall at which members were present from the several States and Territories. The Hon. T. W. Palmer addressed the assemblage and his words of cheer were graciously received. Before each member of the Board had received her commission, President Palmer said, among other things: "These parchment commissions which have been bestowed upon you may well serve in the better days to come as titles of a nobility as far beyond what has passed for nobility in half-developed society as the future shall be beyond the ages when hereditary titles arose. That your chil-
dren's children, to many generations, should cite their descent from Lady Managers of an Exposition which served as a mile-stone to mark the world's grandest and swiftest progress, lies in your hands and brains to-day. All that American women ever lacked—opportunity—is here, and from every State and Territory the women of the hour are here to take advantage thereof. It needs no gift of prophecy to enable one to predict that the future will justify the wisdom of the creation of your Board, and the selection of its individual members."

Secretary Dickinson delivered to each member of the Board and alternate present the certificates of the Commission, and the Board of Lady Managers was thus launched upon the sea of self-reliance. Temporary organization was effected by the unanimous election of Mrs. William Felton of Georgia, as Chairman, and Miss Cora D. Payne of Kentucky, as Secretary.

On the second day Mrs. Potter Palmer of Chicago was unanimously elected President of the Board, and Miss Phœbe Cousins of Missouri, Secretary. Subsequently, the office of Secretary having become vacant, Mrs. Susan Gale Cooke of Tennessee was, on September 2, 1891, elected to fill the position.

By the resolutions adopted by the World's Columbian Commission at the session of April, 1891, the powers and duties of the Board of Lady Managers were defined, in which the Board was "directed and empowered to appoint one or more members of all committees authorized to award prizes for exhibits which may be produced in whole or in part by female labor; and the number of such women members so to be appointed shall be in proportion to the percentage of female labor performed in the production of such exhibits." The Board was given the management and control of the Woman's Building. The Board was given general charge and management of all the interests of women in the Exposition.

Encompassed and on all sides by luxuriant shrubs and beds of fragrant flowers, like a white silhouette against a background of old and stately oaks, is seen the Woman's Building, situated in the northwestern part of the grounds, separated by a generous distance from the Horticultural Building on the one side and the Illinois State Building on the other, and facing the great lagoon with the Flowery Island as a vista. Among a great number of sketches submitted in competition for this building by women from all over the land, the President of the Board of Lady Managers, Mrs. Potter Palmer, discovered in the sketch submitted by Miss Sophia G. Hayden, that harmony of grouping and gracefulness of detail which indicate the architectural scholar, and to her was awarded the first prize of a thousand dollars, and also the execution of the design. The second and third prizes were given respectively to Miss Lois L. Howe, of Boston, and Miss Laura Hayes, of Chicago.

Directly in front of the building the lagoon takes the form of a bay, about 400 feet in width. From the center of this bay a grand landing and stair case leads to a terrace six feet above the water. Crossing this terrace other staircases give access to the ground, four feet above, on which, about 100 feet back, the building is situated. The first terrace is designed in artistic flower beds and low shrubs, forming, together with the creamy-white balustrades rising from the water's edge, and also in front of the second terrace, a charming foreground for the fine edifice. The principal façade has an extreme length of 400 feet, the depth of the building being half this distance. Italian renaissance is the style selected. The main grouping consists of a center pavilion flanked at each end with corner pavilions connected in the first story by open arcades in the curtains, forming a shady promenade the whole length of the structure. The first story is raised about ten feet from the ground line, and a wide staircase leads to the center pavilion. This pavilion, forming the main triple-arched entrance with an open colonnade in the second story is finished with a low and beautifully proportioned pediment enriched with a highly elaborate bas-relief. The corner pavilions, being like the rest of the building, two stories high, with a total elevation of 60 feet, have each an open colonnade added above the main cornice.
MEMBERS OF THE BOARD OF LADY MANAGERS.

1. Miss H. T. Hundley, Alabama.
9. Mrs. Whiting S. Clark, Iowa.
10. Miss Ora E. Miller, Iowa.
11. Mrs. E. C. Burleigh, Maine.
12. Mrs. L. M. N. Stevens, Maine.
13. Mrs. Francis B. Claree, Minnesota.
15. Mrs. John S. Briggs, Nebraska.
MEMBERS OF THE BOARD OF LADY MANAGERS.

1. MRS. EDWARD L. BARTLETT, New Mexico.
2. MRS. THOS. A. WHELAN, Utah.
3. MRS. JENNIE S. MITCHELL, Kansas.
4. MRS. ALEX. THOMSON, Kentucky.
5. MRS. MARY E. MCCANDLESS, Pennsylvania.
7. MRS. EDWARD L. BARTLETT, New Mexico.
8. MRS. THOS. A. WHELAN, Utah.
9. MRS. JENNIE S. MITCHELL, Kansas.
10. MRS. ALEX. THOMSON, Kentucky.
11. MRS. MARY E. McCANDLESS, Pennsylvania.
12. MRS. CHARLES H. OLMSHEAD, Pennsylvania.
13. MISS MARY E. Buselle, New Jersey.
14. MISS MARY E. Buselle, New Jersey.
15. MISS CHARLOTTE FIELD DAILEY, Rhode Island.
Here are located the Hanging Gardens, and also the committee-rooms of the Board of Lady Managers. A lobby 40 feet wide leads into the open rotunda, 70 x65 feet, reaching through the height of the building and protected by a richly ornamented skylight. This rotunda is surrounded by a two-story open arcade, as delicate and chaste in design as the exterior, the whole having a thoroughly Italian court-yard effect, admitting abundance of light to all rooms facing this interior space.

In the second story, above the main entrance and curtains, are located ladies' parlors, committee-rooms and dressing-rooms, all leading to the open balcony in front, and commanding a splendid panorama of almost the entire ground. The whole second floor of the north pavilion incloses the great assembly-room and club-room. The first of these is provided with an elevated stage for the accommodation of speakers. The south pavilion contains the model kitchen, refreshment rooms, reception-rooms, etc.

Concerts.—It is proposed to give semi-monthly concerts in the Woman's Building during the six months of the Exposition, at which only women or girls who are amateurs, possessed of talent and a high order of musical ability, and who have been residents of America for at least ten years, will be permitted to appear. The qualifications are first tested and approved by a jury selected by the Woman's National Committee on Music and satisfactory to Theodore Thomas, Musical Director of the Exposition. No musical prodigy is admitted simply as such, nor is the diploma of any College or Conservatory either necessary or sufficient. Each candidate is rated upon her merits, technical proficiency not alone being considered.

The concerts are intended to provide a public appearance for those amateurs of distinction who are shut out from the concert room of the professional, and who, for various reasons, would not wish to appear therein. Quartettes, trios, either vocal or instrumental, choral and orchestral organizations of women are to be heard.

Sale of Exhibits.—The Decorative Art Societies, Woman's Exchanges, Industrial and Educational Unions, (which are called the Bureau of Applied Arts from the different States) and individuals are allowed to sell by samples. No articles are sold for removal previous to the close of the Exposition, unless a "concession" for the same has been granted by the Committee on Ways and Means. "Concessions" refer to the sale of all goods from which the securing of revenue is the object of the lessees.

Each society or individual exhibiting or selling their work pays their proportion of the expenses of cases, clerks, saleswomen, etc. To provide for these expenses, 20 per cent. is charged on all sales where the saleswomen are provided by the Management; 5 per cent. of this is paid to the Ways and Means Committee for "concessions," and 15 per cent. is reserved as a fund out of which all salaries and other expenses attending the sale of articles in the salesrooms in the Woman's Building is paid.

The Children's Building.—Under the immediate auspices of the Board of Lady Managers is the Children's Building. This is primarily an educational exhibit. A model crèche is shown, demonstrating in a large, light and airy room the most healthful, comfortable, and rational system of dressing and caring for young children. Short lectures are given upon their food, clothing, and sleeping arrangements, and in connection with the crèche is an exhibition of infants' clothing of all nations and times, their cradles, and other furniture. As the child grows and its mental faculties develop, the kindergarten succeeds the crèche. This department of child-life is demonstrated in the most complete manner by the International Kindergarten Association. The kindergarten under their management is fitted up in the most attractive manner. All the latest apparatus necessary to the best exposition of the work is provided. Closely allied to the kindergarten is the kitchengarden, where classes of little folks are taught the useful arts of homekeeping. In so interesting and delightful a manner are sweep-
MEMBERS OF THE BOARD OF LADY MANAGERS.

1. Mrs. Beriah Wilkins, District Columbia.
12. Miss F. Cunningham, South Carolina.
13. Mrs. Elley M. Brayton, South Carolina.

2. Miss Katherine L. Minor, Louisiana.
5. Mrs. J. M. Stone, Mississippi.

GROUP OF ALTERNATES BOARD OF LADY MANAGERS.

1. Mrs. Frank H. Daniell.
4. Mrs. Clare Waring.
5. Theresa J. Cookran.
6. Susan W. Ball.
7. Mrs. Carrington Mason.
10. Lena A. Hayes.
11. Isabella L. Candee.
12. Mary B. Hancock.
14. Mrs. Alice B. Castleman.
15. Mrs. Ira Z. Hendricks.
ing, dusting, bedmaking, and cooking taught, that what might otherwise be an irksome task to children becomes a most delightful recreation.

For older children is a sloyd, where wood-carving is exhibited. Physical development is illustrated by the North American Turner-Bund. Here many a lad is inspired to seek after that physical perfection that was the pride of the Greeks and Romans. A library containing a full supply of children's literature has been provided. In it are found the books of all lands, and in all languages, their newspapers, periodicals, etc.

Pennsylvania has equipped a department in the Children's Building showing the wonderful progress that has been made in teaching young deaf mutes to speak. Miss Mary Garrett, secretary of the Home for Teaching Deaf Mutes to speak, is in charge of this department. Daily demonstrations are given.

A department of Public Comfort in connection with the Children's Building, is conducted especially for the benefit of children. Infants and small children are received and placed in the care of competent nurses, who provide for all their wants while their mothers are visiting the various departments of the Exposition.

For the amusement of visiting children there is a large playground on the roof; this is inclosed with a strong wire netting, so the children will be perfectly safe. The playground is very attractive, ornamented with vines and flowers. Within the inclosure butterflies and birds flit about unconfined. Here, under cover, are exhibited toys of all nations, from the rude playthings of Esquimaux children to the wonderful toys which at once instruct and amuse. These toys are used to entertain the children.

The building has an assembly-room, containing rows of little chairs, and a platform from which stereopticon lectures are given to the older boys and girls, about foreign countries, their languages, manners, and customs, and important facts connected with their history.

In the Woman's Building will be found a well filled library of printed works and original manuscripts in many languages, by women writers.

The work of the Board for the past two years has been prosecuted with the utmost harmony and good feeling, and the purposes have been admirably carried out. It marks the first participation of women in an important national enterprise, and has prepared an object lesson to show the progress women have made in many countries of the world, exhibiting the increased usefulness that has resulted from the enlargement of their opportunities. Representative collections have been made from the States and Territories and from such foreign countries, for instance, as England, France, Italy, Germany, Austria, Russia, Belgium, Holland, Sweden, Norway, Greece, Denmark, Siam, Japan, Algeria, Cape Colony, Cuba, Mexico, Nicaragua, the Argentine Republic, Jamaica, Ceylon, Brazil, Spain, Colombia, Ecuador, Venezuela, Panama and the Sandwich Islands. These give an adequate idea of the extent and value of what is being done by women in the arts, sciences and industries. In the general buildings, where the competitive exhibits are placed, the exhibit of women's work from that of men is not separated, for the reason that, as women are working side by side with men in the industries of the world, it would have been practically impossible, in most cases, to divide the finished result of their combined work; nor would women be satisfied with prizes unless they were awarded without distinction as to sex and as the result of fair competition with the best work shown. The Board is striving for excellence, and desires recognition only for demonstrated merit. In order, however, that the enormous amount of work being done by women may be appreciated, a statement has been procured and shown with every exhibit, stating the proportion of woman's work that enters into it.

Many new avenues of employment are thus shown to women breadwinners. The most brilliant achievements of women from every country and in every line of work are shown in the exhibits of household economics, needlework, drawing, etching, painting, pottery sculpture, carving in wood or ivory, her
work in all decorative arts, manufactures, inventions and other articles of her production; proofs of her work in the professions, in journalism and the making of books, in musical and dramatic art, in religious, literary and scientific societies, in the organization and management of temperance, hygienic and other reformatory work, as well as the art of cooking and the preparation of food, including the grinding of grain and the making of bread; the curing of skins and furs and the shaping of them into garments; the invention and use of needles and the twisting of various fibers into threads for sewing and knitting; the weaving of textile fabrics; the use of vegetable dyes; the art of basket-making; the modeling of clay into jars and vases for domestic use, and also their ornamentation and decoration. Besides the National Board of Lady Managers, several of the States and Territories have their own boards of women, who look after women's work in their own respective domains, but all co-operating with the National Board.

[Mrs. Potter Palmer, before her marriage, had acquired fame as the beautiful Bertha Honore. She was born in Louisville, Ky., her father being of French descent and her mother belonging to one of the oldest and most aristocratic Southern families. Her childhood and early girlhood were spent in Louisville, and there also her education was begun. According to an old Southern custom, her education was finished in a convent, the one selected being near Baltimore, Md. From the quiet of the convent Miss Honore stepped into a field of conquest. Her mental acquirements and inherited grace and refinement soon gave her an enviable position in society. In 1871 she married Potter Palmer, one of Chicago's representative and wealthy citizens, and has since then resided in Chicago. She has traveled much, and has a wide acquaintance among both the wise and fashionable people of two continents. Her contributions to city and state charities, while large, are surpassed by the good she privately does. Mrs. Potter Palmer is well calculated to adorn and fill the office which she now occupies, and her known energy, combined with her acknowledged executive ability, presaged that the Board of Lady Managers, under her guidance, will more than accomplish all that the National Commission has seen fit to place in their charge. And all expectations in that respect have been more than fulfilled. Under her administration the woman's department has attained proportions which form one of the most wonderful developments of the Exposition.]
MRS. POTTER PALMER,
PRESIDENT BOARD OF LADY MANAGERS.
BUREAU OF PUBLIC COMFORT.

THIS bureau was established by the Directors of the Exposition for the purpose of contributing, as far as possible, to the convenience and comfort of visitors. In several of the large buildings located in different parts of the grounds are spacious reception and waiting rooms, parlors for ladies and children—all comfortably furnished, for the enjoyment of visitors. The bureau has provided lavatories and retiring rooms, polite attendants and all necessary means for constituting an attractive headquarters for the people—desirable resorts and resting places free of charge to visitors. Maintained in connection with these rooms, for the use of visitors, at moderate charges, are parcel rooms for checking and care of coats, wraps, bundles, handbags, etc.; barber shops and boot-blacking; a good service of lunch counters and luncheon tables; also stands for the sale of newspapers, reading matter, stationery and postage stamps, toilet articles and other items of common every-day need. Attendants are stationed in each reception room, to reply, as far as possible, to all inquiries for general or local information. Registers for visitors are maintained, in which those desiring may enter their names, home and temporary address without charge. The provision for convenience of visitors also embrace telegraph office, telephone office, messenger service, stenographers and typewriters. The central idea has been to furnish suitable free accommodations within the Exposition Grounds, where all are welcome to rest from the fatigues of sight-seeing, and to cater to the personal needs of visitors, at moderate cost.

For some time previous to the opening of the Exposition the Bureau maintained (and now continues) a hotel and rooming department through which it co-operates with the citizens and householders of Chicago and vicinity in securing suitable and desirable lodging accommodations at fair and reasonable rates for expected visitors. The city has been subdivided into districts and sections, and an official register prepared, in which parties having furnished rooms to let may have them listed, under a contract with this department, giving full description and prices thereof, the rooms being always first subjected to inspection.

Under this landlord's contract these rooms are placed in the hands of the department for rental, at the prices named by the landlord, with authority to let the same, or any of them, from day to day, or longer, and to collect the rent therefor in advance, in the name of said landlord; and upon receipt thereof to issue to the lessee or prospective tenant a rental certificate, which secures to the holder of said certificate, the rooms engaged for the term and date selected.

There is no ground for rumors which may be circulated that visitors to the Fair are made the victims of exhorbitant charges. Competition is so extensive and sharp as to prevent it. One who climbs to the top of one of the Exposition buildings and surveys the territory lying to the north, west and south of Jackson park can easily believe this statement. There, and indeed in all parts of the city, the amount of building recently completed and now under way is simply astonishing. Hundreds of structures to meet World's Fair demands have been erected within the past few months. Some of the new hotels are large enough to accommodate several thousand guests each, and living accommodations for not less than 300,000 strangers have been provided for immediately contiguous to the Exposition, to say nothing of the numerous hotels, boarding houses, lodging houses, restaurants and cafes in every part of the city and suburbs.

The Chicago summers are known far and wide as successful rivals of those of many of the pretentious resorts in mountain and at seaside. The temperature in summer is invariably cool, and a conspicuous blessing are the delightfully cool nights. If the weather is ever unpleasantly warm it lasts at most only a few hours, a cool breeze from the lake invariably dissipating it. The certainty that hot weather does not prevail for any length of time is a most advantageous feature.
An abundance of drinking water, the best supplied to any great city in the world, is provided free to all. The water is either filtered or sterilized. The process of sterilization is accomplished by boiling the water. Months ago the Exposition company made a contract for something less than 3,000 drinking fountains. The fountains have each four faucets, so that 12,000 people may drink at the same time. These fountains are distributed all over the grounds. Ample provisions for seating is made without charge. About 1,500 toilet rooms and closets are located at convenient points in the buildings and about the grounds and they are absolutely free to the public. This is as large a number in proportion to the estimated attendance as has ever been provided in any Exposition. In addition to these there are also nearly an equal number of lavatories and toilet rooms of a costly and handsome character as exhibits, for the use of which a charge of five cents is made. Free medical and emergency hospital service is provided on the grounds by the Exposition management. Imposition or extortion of any description will not be tolerated. A special building for the use of the Bureau will be found at the north end of the park. At the south end, in the Terminal Railway station, the bureau has been given a great number of rooms in which are furnished free accommodations. At the southeast corner of the park, in the Casino Building, more room has been reserved for the same bureau. In each of these buildings are cheap lunch counters, checking-rooms, etc., and tables where those who feel so inclined may sit and eat the luncheon which they bring to the park. The concessionaires who have the restaurants on the grounds are subject to the supervision of the Exposition officials. The prices charged for food are approved by the authorities, and in this case the persons to fix the prices are the members of the Ways and Means Committee. Extortionate charges and very poor service were imposed upon the public by many of these restaurant concessionaires at the opening, but there was such universal and well grounded complaint that official regulation had to be adopted toward these greedy and unscrupulous vendors of food. A great many visitors take their lunch with them, and they find that this is by far the cheaper and more satisfactory plan.

In every public building on the grounds there is abundant convenience for checking packages. The Manufactures Building has eight check-rooms; the Fine Arts Building, twelve; the Electrical Building, four; the Agricultural Building, two; the Fisheries Building, two; and other Exposition buildings from one to four in proportion to their various needs. The terminal railroad station has four check-rooms, the Casino is amply supplied, and all State buildings are furnished as their officers may require. These parcel checking-rooms vary in size from 6x8 feet to 50x15. All check-rooms have a series of pigeonholes on the walls, each compartment being eighteen inches in each of its three dimensions. The checks are manila tags, machine numbered, and divided into three parts, after the manner of the usual package checks in railroad depots. A charge of 10 cents is made for each day or fraction of a day upon delivery of the parcel. On the grounds there are about 20,000 compartments for the reception and care of packages and more than 100 attendants. Besides this checking system a plan of transferring baggage has been instituted whereby a visitor may leave a bundle, for example, in the check-room of the Forestry Building and find it afterward at the railway station upon presentation of one of the colored transfer checks. Facilities are also provided for delivering parcels from any shop or booth on the grounds at any one of the regular checking stations. For this purpose another different style of check is provided. These deliveries are made either specially on short notice or as routine work, the charges to be regulated accordingly.
DEPARTMENT O—PUBLICITY AND PROMOTION.

IT is not exaggeration to say that the Department of Publicity and Promotion has fully established the fact that its existence has been essential to the success of the Exposition. It has been an absolutely necessary factor. Chicago having secured the Exposition, those upon whom it devolved to organize and carry forward the great enterprise were confronted with a number of discouraging facts. Certain quarters of the country (candidates for the Exposition in the beginning), smarting under defeat and already beginning to grow jealous of the marvelously prosperous western rival, were hostile. In that hostility other sections shared to a greater or less extent. Again other sections were far from united in the belief that Chicago was the best place in America for holding a world's fair. Europe, and indeed nearly all foreign countries, were accustomed to get their impressions of American affairs from beaten paths. It followed that Chicago started in upon the great task with nearly the entire world hostile, or skeptical and indifferent. At the time Chicago was selected as the location of the Exposition, parts of the English press and people promptly disparaged the importance of the enterprise because of its location, and dismissed the subject with the comment that the so-called World's Exposition stood no chance of "a local fair."

The Exposition realized the confronted them, daunted, they set them a way. determined that this accomplished outside the press of the To secure this end the promotion of interests a matter iness, the Department Promotion upon. Of all the departments this which was organ-be inferred how tion authorities necessity and in-work it was to.

The department in December, General Davishaving appointed as its chief Major Moses P. Handy, of Philadelphia, a journalist of extended experience not only in that city, but in New York, Washington, and several others. He enjoyed a wide acquaintance with men and had the confidence of the press throughout the country. He was relied affairs, upon to conduct a campaign which should have for its object the conquering of all hostility to Chicago and the Exposition, and the turning of indifference into enthusiasm.

Major Handy organized his department somewhat on the lines of a gigantic news agency. He recruited his assistants almost entirely from those having extended experience in newspaper work. In January, 1891, the campaign was begun. Circular letters were sent out to every newspaper throughout the civilized world informing them that the department would begin sending out news
matter relating to the Exposition, and inviting them to make such use of the whole or part of it as they might feel disposed. They were requested also to place the department on their exchange list. It was expressly stated that the news matter would be furnished gratis. The response was very generous, though in some sections of the United States and in some foreign countries much apathy and indifference was manifested. The press of France assumed a somewhat different attitude. Some of the journals of that country wanted to be subsidized, and were not backward in letting it be known. They were met with courteous refusal.

Almost the first thing attempted by the department was to convince the world that Chicago was no "mean city." Articles specially prepared were sent out setting forth the wonderful growth of this city, and no opportunity was omitted to convey the impression that Chicago had determined to make the Exposition the crowning success of all its accomplishments. Then the broad scope of the Exposition, as planned, was described, and special emphasis was made, in matter sent abroad, of the fact that it was an enterprise, not of Chicago alone, but of the United States government, being created and located by Act of Congress, and being aided by appropriations from the government treasury. This was followed by articles giving facts and figures showing the importance to foreign countries of the American market, and the necessity of exhibiting at the Exposition if they hoped to retain the trade they already had in it and to keep pace with their competitors in occupying it as it rapidly expanded. The commanding position occupied by Chicago with reference to the American market for foreign goods was duly commented upon, as was also the fact that the objections to Chicago as a place of exhibit because of its being a thousand miles inland, which were at first urged, were without real force, and that on the contrary, for many specified reasons, the location, because of its being central with reference to the great industries of this country, would tend greatly to enhance the importance of the Exposition, and consequently as a place especially advantageous for the display of foreign exhibits.

Closely following the sending out of articles on the subjects referred to came the information directly concerning Exposition affairs themselves, which began rapidly to develop. The meetings of the National Commission, the adoption of the classification, the organization of the different departments, the selection of architects, the splendidly located site, the raising of millions by Chicago, the plans and descriptions of those magnificent buildings, the rapidly growing enthusiasm over the Exposition throughout the United States, the successive appropriations by the different States, and the acceptance, one after another, by foreign nations of the President’s invitation to participate in the Exposition—all of these and innumerable matters of lesser importance were sent forth, as they occurred. For months after the Exposition was located, practically all news relating to it originated in Chicago, and the Department of Publicity and Promotion kept the press of the world informed of it. The press of Chicago, from first to last loyal to the undertaking, performed a very important part in the same service. But it was through the news-letters sent out by the department that the press at a distance from Chicago gained information of what was going on in Exposition affairs. It followed that for a time nearly all the Exposition news that was published at all was what the department disseminated. Later, when the legislative bodies of the States and of foreign countries began to make appropriations and take other action; when commissioners were selected, when intending exhibitors began to divulge their plans; when, in short, the world began to participate, then centers where Exposition news originated began to develop all over the world. As this progressed it became a part of the work of the department to keep all sections of the world posted upon what all other sections were doing in the way of participating in the Exposition. The department became a sort of clearing-house for Exposition news, besides sending forth, as from the first, the news as it kept developing at Chicago.
In addition to the news-letters referred to the department sent out electro-
type cuts of the various Exposition buildings and of the principal officials, 
together with descriptions and biographical sketches. These were given almost 
universal publication by the press in all parts of the world, and had a very per-
ceptible effect in increasing the interest felt in the Exposition. Many thousands 
of fine colored lithographs, notably one of a bird's-eye view of the Exposition, 
were also sent to hotels, libraries, steamship offices, public buildings, prominent 
manufacturers, agents, business houses and others in all parts of the world. The 
result was that the world came to know that the Exposition was being built on a 
scale much more magnificent than had been any of its predecessors. Because of the 
lithographs and cuts of buildings greater interest was felt in the news-letters. 
The two complemented each other in winning the favor of the world toward the 
Exposition. Besides what has been mentioned, there have been sent out by the 
department many thousands of pamphlets prepared by its staff of writers on 
various phases of Exposition work, pamphlets giving the rules and regulations 
of each of the thirteen great exhibit departments, copies of the general rules of the 
Exposition, official proclamations and announcements of the President and direct-
or-general, circulars of the various governing bodies—the National Commission, 
the Local Directory, the Board of Lady Managers, the Council of Administration, 
the World's Congress Auxiliary, etc. All of these have been sent to some 50,000 
different addresses in all parts of the world. A vast amount of work of a special 
nature has also been done by the department. Articles on various branches of 
Exposition work and on Exposition affairs in general, ranging all the way from 
1,000 to 40,000 words in length, have been prepared in the department specially 
for particular newspapers, magazines and other publications. A large number of 
papers have been supplied regularly every week, each with its own exclusive arti-
cle. Others have been furnished with such articles as they have requested. Then, 
too, the answering of thousands of inquiries has been no insignificant part of the 
work of the department. Many of these inquiries have been very comprehen-
sive and have required much care in the preparation of replies. For example a 
State commissioner in Oregon asked: "What are the States which have made no 
appropiation doing toward participating in the Fair?" The department fur-
nished him with the information, telling him that in one State money was being 
raised by the stock subscription plan; in another the women were holding fairs 
and raising the necessary funds; in another prominent citizens had contributed 
what was necessary, relying on the next session of the Legislature to reimburse 
them in part; in another the counties were appropriating money; in another the 
State Agricultural Society had undertaken the work of collecting an exhibit that 
would creditably represent the State, and so on through all the States. Thus the 
department has been assumed to be an encyclopædia of information about every 
phase of Exposition affairs.

This part of the work could not be successfully attended to had there not been 
system throughout the department. Thousands of newspapers and other 
publications have been received regularly from their publishers. These have 
been carefully read and all Exposition matter clipped out. A record has been 
kept of the proportion represented by matter sent out in the regular news-letters 
of the department. These clippings, classified by States and countries, have 
been pasted in great scrap-books, which now have run up into the hundreds in 
number. The department has also had the service of several clipping bureaus, 
and thus had clippings from thousands of papers not on its exchange list. These 
clippings have been similarly classified and pasted in scrap-books. Thus the 
department has kept itself posted on what the press of the world has said of the 
Exposition. Misstatements and misrepresentations have been carefully noted 
and, if serious, the department has taken pains to head them off by sending out 
authorized corrections. It has been able to judge how extensively its own mat-
ter, which it sends out, has been published, and it can be truthfully said that the 
proportion has been remarkably great.
For the sending out of its news letters and other matter the department has had in operation a mailing service similar to that of a great newspaper. The mail list embraces some 50,000 separate addresses. Of these about 20,000 are those of newspapers, and the others include State officials, State and foreign World’s Fair officials, consuls, foreign ministers, public libraries, colleges, prominent manufacturers, commercial agents, transportation agents, prominent citizens, etc. To all of these from one to a dozen pieces of mail matter have been sent each week, including news-letters, pamphlets, circulars, lithographs, cuts of buildings, etc. At times the postage bill of the department has run as high as $1,000 a day. During 1892 the department sent out to each one of its 50,000 addresses articles aggregating 650,000 words in round numbers. Of these 430,000 were in English and 220,000 in German, French, Spanish and other foreign languages, chiefly in those named. A large quantity of matter, however, has been issued in Portuguese, Swedish, Italian, Danish, Russian, etc. In the same period there have been sent out 2,300,000 printed documents, rules, etc., and 8,000 electrotypes. The department has a record of over 60,000,000 words in English alone, having been published in 1892. This would be between 40,000 and 50,000 ordinary newspaper columns. Of this vast amount over 20,000,000 words, or fully one-third, has been of matter prepared and sent out by the Department of Publicity and Promotion. The record for 1891 was but little below that for 1892, and the proportion of department matter published was greater. More than 100,000 lithographs were sent out in 1891.

Another important branch of this department’s work has been supplying Exposition news daily to the press of Chicago and to the Associated and United press. Several times each day memos of the department staff have gone through all the Exposition departments and offices, examined correspondence, and interviewed visiting commissioners, exhibitors and others, and from them gleaned the news of the day. This has been type-written and supplied to representatives of the different Chicago papers and press associations. The news service in foreign languages has been very extensive. Each country has been supplied bounteously with Exposition news in its own language. The same members of the staff who have furnished the news in foreign languages have also done a great part of the translating necessary in carrying on the voluminous correspondence of the different departments with foreign exhibitors and others.

It fell to the lot of this department along with its other duties to look after visiting newspaper men, furnish them with desired information and facilities for preparing special matter relating to the Exposition. It is the universal verdict that never at any great celebration have the press representatives been better cared for and afforded more complete facilities for doing their work than they were at the Exposition dedication exercises in October, 1892. All of the great dailies had from one to half a dozen representatives there. Almost every paper of standing was represented, and many foreign journalists were present. About 2,500 newspaper men were in attendance. The best seats in the building were reserved for them and their friends. Nearly 3,000 were reserved for that purpose. Each correspondent was furnished with printed proofs of all the speeches and even of the prayers. In an adjoining room were fifty typewriters with machines ready to transcribe whatever the correspondents might choose to dictate, and close by were almost as many telegraph operators to send the “copy” to the various newspapers represented.

During the few weeks just preceding the opening of the Exposition the department has been perfecting arrangements whereby the accommodations and facilities for the newspaper reporters and correspondents should be as complete at the opening and all through the Exposition as they were at the dedication exercises. Three floors in the northwest pavilion of the Administration Building constitute the newspaper headquarters. Generally speaking one floor is occupied by the department offices one by the Chicago press, and one by the outside press, foreign press and file rooms. Desk room, typewriting machines and tele-
MOSES P. HANDY,
CHIEF DEPARTMENT OF PUBLICITY AND PROMOTION.
graphic facilities are provided in abundance. The preparation of passes and the issuance of them to press representatives who were entitled to receive them has also been accomplished by the department, and as may be easily imagined, it has been no small task.

While all this has been carried on, the department has been engaged for a time in the preparation of the Official Catalogue. This has been a work stupendous beyond the conception of any one uninformé in such matters. The collection of an infinite amount of detailed information from many thousand sources has been necessary, as well as its proper classification by departments, groups and classes.

The varied and extensive work which has fallen to the lot of the Department of Publicity and Promotion is not all indicated even by what has been alluded to above. In conjunction with the great dailies of Chicago the department publishes an eight-page daily newspaper on the grounds during the Exposition. Three pages are edited exclusively by the department, each one of five Chicago dailies having charge of one of the other pages. This paper is published from exhibit presses in Machinery Hall.

Moses Purnell Handy was born in the State of Missouri, but is virtually a Virginian, his father, a Presbyterian minister, having removed to the old Dominion while the son was yet an infant: and it was in the traditions of that State that the latter was reared and educated, and to her service that he gave his allegiance when the contest between the sections culminated in an appeal to arms. The horrors of conflict fell first upon the border States, particularly upon that portion of Virginia contiguous to the Potomac, in which the Handys were living; the father although a minister of the gospel and a man of peace, was an early victim to the ardor of his convictions and the ill-considered servity of an inexperienced Federal officer. He was arrested; thrown into a military prison; the home was wrecked; the family scattered; and at the age of seventeen the young Moses was cast upon his own resources. At the age of seventeen he entered the Confederate army, was assigned to the staff of General Stevens with the rank of lieutenant, and served until the surrender of Lee p... an end to the struggle. Out of the adventures which befall the youthful soldier during those years of exciting experience grew the first achievement in that line which was to become his cherished profession. His first literary venture, consisting of a series of articles descriptive of incidents of a foray and battle, appeared in the Watchman then conducted by Dr. Deems. Having thus "seen himself in print," the path of future effort was irrevocably determined. The journalistic instinct was in full pulse and vigor, only seeking a channel in which to vent itself. The boy now called on Dr. Converse, editor of the Christian Observer, then published at Richmond, and said he must have work. The field was not promising, but with characteristic perseverance he held on until at last (as to such resolute spirits it always does) the opportunity came. In the summer of 1867 Mr. Wilson, candidate for Vice-President of the Democratic Party, announced his intention of going to Richmond and Handy went to the Richmond Dispatch with an offer to report the meeting "for five dollars and a railroad ticket." The offer was accepted, and the result was a report so superior to the usual work in that line as at once to fix the status of the writer. He was tendered and accepted a permanent situation on the Dispatch, learning the detail of the craft while engaged in the "all around" work which is the best education for a journalist, and was not long in mounting the higher rungs of the ladder. A little later Mr. Handy, in connection with the exciting and tragic affair of the "Virginius," which so nearly led to a war between this country and Spain, displayed an enterprise in obtaining intelligence and a brilliancy of method in transmitting it which elicited flattering comments. This episode led directly to his establishment with the then brilliant staff of the New York Tribune, and his career since has been one of unbroken success. He was subsequently, for a time, editor-in-chief of the once famous Richmond Enquirer, and imparted to that said journal a vigor and spice which astonished the natives. In 1876 he was commissioner from Virginia to the Centennial Commission, and becoming attached to the "Quaker City" remained there during several years in which he managed the Times, and afterward held a prominent position on the Press, engaging at the same time in other and successful literary undertakings. When the organization of the departments of the Columbian Exposition was undertaken, Major Handy was selected by Colonel Davis to create the bureau over which he now so ably presides. The tender came simultaneously with that by President Harrison of the appointment of consul-general to Egypt. Major Handy, however, decided to cast his fortunes with the Fair. His task was really the creation of a department, for the field was entirely unexplored; methods, as well as forces, had to be originated, and the territory to be covered was the globe. How thoroughly the work has been accomplished is best shown by the universal interest which has been created in the enterprise. A recent traveler through the remote East said on returning home that he had encountered in the most obscure hamlet no person who had not heard of Chicago and the great Exposition. Major Handy was married in 1869 to Miss Sara Mathews, of Virginia. His charm-
ing home in this city is brightened by the presence of interesting and attractive children. His life is one of arduous industry, but is not consumed with care; for he is the life and light of social occasions, and carries into every presence the easy tact and unaffected charm as a companion which made him famous as President of the Clover Club. Few men are so widely known; none more generally esteemed.]
DEPARTMENT P.--FOREIGN AFFAIRS.

The wide scope and the successful performance of the duties for which the Department of Foreign Affairs is responsible is best shown by the complete and characteristic representation at the Exposition of nearly every country upon the globe. At the time of the organization of the department in July, 1891, although the invitation of the President of the United States to foreign governments had been formally accepted by many great nations, not an inch of space had been applied for except by domestic exhibitors, while abroad there was a general feeling of apathy that was disheartening to the promoters of the great international exhibition. To correct the erroneous impressions that had been industriously circulated a special commission was dispatched to Europe which, upon its return, was accompanied by representatives from England, Germany and Denmark, authorized by their governments to examine the preparations at Jackson Park and to apply for space if the situation seemed to warrant participation. The enthusiastic report of these experts, made almost simultaneously with the announcement of patches received commissioners of who had been Japan, Australia, and South America succeeded by the world-wide interest for space, in some able and in some large, poured in letter, until at the year 1892 every the great buildings ed and the Exposition was constructed after the original plan, in most desirable could be accepted might be made for sources to be dispersed that date the con- department has tion of modifying the overwhelming the countries beyond the borders of the United States by persistent and diplomatic endeavor, providing for the characteristic representation of many small but unique countries which the proclamation of the President failed to reach. The complete achievement of the former is evidenced by the cordial relations existing among all the foreign representatives now in Chicago, and of the latter by the comprehensive and brilliant displays gathered at the Exposition from the national pavilions on the north; to the forestry exhibits on the south, and to the extreme western limit of the Midway Plaisance. At the opening of the Exposition five hundred commissioners representing forty-five nations are in attendance. These countries are Argentine Republic, Austria, Belgium, Brazil, British Guiana, Bulgaria, Canada, Cape Colony, Ceylon, Colombia, Costa Rica, Curacao, Denmark, Ecuador, France, Germany, Great Britain, Greece, Guatemala, Honduras, Hayti, Holland, Italy, Jamaica, Japan, Jahore, Java, Korea, Liberia, Mexico, New South Wales, Nicaragua, Norway, Orange Free State, Paraguay,
Persia, Portugal, Russia, Siam, Spain, Sweden, Switzerland, Trinidad, Turkey, Uruguay and Venezuela. In addition to these officially represented countries, splendid displays have been installed in the departmental buildings by representatives of China, Hungary, British India, Peru, Chile and many British, French, Spanish, Dutch, Portuguese, German and other colonies. The care which has been exercised in providing that no country should be unrepresented by its products is instanced in the case of China, that government having declined the president’s invitation to participate. Negotiations were conducted with the most influential merchants and manufacturers of China through the American Consular service, which have led to the establishment of one of the most interesting collections in the great Manufactures Building. The failure of the government of India to take official part was at least in some degree counteracted by the overtures which resulted in the erection of a typical Indian building upon the grounds, replete with the brilliant and varied collections of that vast empire, and which has received official aid. Similar methods have secured the artistic manufactures of Hungary, as well as the natural resources of the islands of the Pacific Ocean, and numerous contributions without which the Exposition could hardly be deemed complete. Although its business has been conducted with scrupulous economy, the Department of Foreign Affairs has been compelled to spend more money than any other department of the Exposition, save that of works. It has received nearly 10,000 written communications and dispatched more than 25,000. Although the department has had in its daily mail hundreds of letters in many languages, English has been naturally adopted as the official language of the Exposition and generally used in correspondence. A commodious parlor, well furnished with tables and writing manterials, has been provided for the use of foreign commissioners in the offices of the Department of Foreign Affairs in the Administraton Building, which is a rendezvous for a large number of these gentlemen. Attaches of the office speaking nearly all tongues, are always present to give all information required.

[Walker Fearn, though born in Alabama, comes from a long strain of Virginian ancestors, Huntsville, his birthplace, was laid out by his great-grandfather, Leroy Pope. His grandfather, John W. Walker, from whom he was named, was president of the convention which framed the constitution precedent to Alabama’s admission as a State of the Union. The subject of this sketch entered Yale College in the class of 1848, and graduated with honor three years later. Having read law with the late John A. Campbell he was admitted to the bar on his twenty-first birthday, and soon entered into active practice; but in 1853 began his varied experience in foreign lands by accepting the post of secretary of legation to the Belgian mission. Subsequently he occupied the same position in the Mexican legation, Hon. John Forsyth being then minister to that power. Later he made an extensive and protracted tour of Europe. In 1861 he was one of the Confederate commissioners to European powers, and returned to Charleston under fire of the blockading fleet. Entering the Southern army, Colonel Fearn was at first assigned to the staff of General Joseph E. Johnston, then commanding in Virginia. In 1863 he was again employed in the diplomatic service, first in Europe with L. Q. C. Lamar, since a Justice of Supreme Court of the United States, and afterwards to Mexico with General William Preston. His final military service was as adjutant-general of the trans-Mississippi Department under Kirby Smith, and here the close of hostilities found him. After his marriage with Miss Hewitt, of Kentucky, in 1866, Colonel Fearn devoted himself to the practice of law in New Orleans (also holding a professorship of modern languages in the University of Louisiana) until 1884, when he visited Europe as commissioner of the New Orleans Exposition. He was appointed by President Cleveland minister to Greece, Roumania and Servia; and at the close of his term established a law firm in London and New York. Colonel Fearn by his experience and acquaintance abroad was pre-eminently fitted for the management of the department to which the director-general invited him. His administration of the office has been successful in the highest degree, and has added to a reputation already high.]
GENERAL INFORMATION.

Description and Location of Buildings Other Than Departmental, State and Foreign—Railroad, Steamboat and Street Car Lines to the Exposition—Directory of Officers in the Administration Building—The Fountains and Statuary—All the Features and Points of Interest on the Grounds.

Administration Building.—This building is one of the gems of the Exposition palaces. It is located immediately north of Machinery Hall, south of the Mines and Electricity buildings, east of the Terminal Railroad station and west of the Basin.

The most conspicuous object which attracts the gaze of visitors on reaching the grounds is the gilded dome of this lofty building. This dome covers an area of 280 feet square and consists of four pavilions 84 feet square, one at each of the four angles of the square, and connected by a great central dome 120 feet in diameter and 220 feet in height, leaving at the center of each façade a recess 82 feet wide, within which are the grand entrances to the building. The general design is in the style of the French renaissance. The first great story is in the Doric order, of heroic proportions, surrounded by a lofty balustrade and having the great tiers of the angle of each pavilion crowned with sculpture. The second story, with its lofty and spacious colonnade, is of the Ionic order.

The four great entrances, one on each side of the building, are 50 feet wide and 50 feet high, deeply recessed and covered by semi-circular arched vaults, richly coffered. In the rear of these arches are the entrance doors, and above them great screens of glass, giving light to the central rotunda. Across the face of these screens, at the level of the office floor, are galleries of communication between the different pavilions.

The interior features of this great building even exceed in beauty and splendor those of the exterior. Between every two of the grand entrances, and connecting the intervening pavilion with the great rotunda, is a hall or loggia 30 feet square, giving access to the offices and provided with broad, circular stairways and swift-running elevators.

Above the balcony is the second story, 50 feet in height. From the top of the cornice of this story rises the interior dome, 200 feet from the floor, and in the center is an opening 50 feet in diameter, transmitting a flow of light from the exterior dome overhead. The under side of the dome is enriched with deep panelings, richly molded, and the panels are filled with sculpture in low relief, and immense paintings representing the arts and sciences. In size this rotunda rivals, if it does not surpass, the most celebrated domes of a similar character in the world.

The building is divided into four grand pavilions known as A, B, C and D, occupied from the ground to and including the third floor by officials of the Exposition, express, telegraph and telephone companies, bank, press headquarters, café, Columbian guard, etc., explained below. Above the third floor are four tunnel passages leading from one pavilion to another. The fourth floor is a circular colonnade for sightseers, and from the fifth floor stairways lead to the top colonnade. The occupants of the building are as follows:

Director-General.—The entire second floor of the northwest pavilion (B). Entering the rotunda from the north, take the first section of elevators to the left.

Council of Administration.—The right-hand rooms of the first floor of Pavilion B.

President and Secretaries of the Exposition.—The left-hand rooms of Pavilion B.

Secretary of Installation.—South room of the ground floor of Pavilion B.

Collector of Customs.—North room of the ground floor of Pavilion B.

Committee on Awards.—Entire third floor of Pavilion B.

Pavilion C.—Right-hand room of the second floor of the southeast pavilion (A). Entering the rotunda from the north, take the second section of elevators to the left.

Secretary National Commission.—Rooms to the left of the second floor of Pavilion A.

National Commission.—Room to the left of the third floor of Pavilion A.

Committee on Ceremonies.—Room to the right of the third floor of Pavilion A.

Western Union and Postal Telegraph Companies.—Entire ground floor of Pavilion A.

President Board of Lady Managers.—Entire first floor of Pavilion A.

Publicity and Promotion.—Second floor of the northwest pavilion (C). Entering the rotunda from the north, take first section of elevators to the right.
Office of the Official Publications.—The Exposition headquarters of the W. B. Conkey Company, publishers of official works to the Exposition, are in handsomely furnished apartments adjoining the main office of the Chief of Publicity and Promotion in Pavilion C, on the second floor. This company’s plant is located in two immense seven-story buildings—Nos. 341 to 351 Dearborn street and 63 to 71 Plymouth Place—the largest general printing and book manufacturing establishment in the United States. Here the complicated mechanical work of getting out the Official Directory, the Official Catalogue, the Guide, and other Exposition publications, is carried on, in which over 1,200 employees are engaged in the colossal undertaking, and where specially prepared machinery and skilful labor are employed. Besides this large number of employees, over 2,000 others are engaged in the editorial, translating, compiling, clerical, advertising, and art departments: in traveling, supervising and soliciting, the scope of their duties covering all parts of the United States, Europe, and indeed, all quarters of the globe. Communication is had from the editorial department of the publications in the Administration Building to the publication offices down-town by private telephones and messengers. The company has also on the grounds a corrugated iron building, 50x100 feet, with their own special railroad track leading to it, located in the southern part of Jackson Park. It is used as a depot for the employees and also as a drill-room for the company’s battalion of uniformed boys who are engaged in the sale of the Official Catalogues of the different departments. These boys, in their scarlet and black uniforms with gold letters on the cap, marching to their respective posts, are a very attractive feature, Commandant Rice having detailed an officer to instruct them so that their appearance is soldierly in its bearing. There are storage booths in each department where a supply of the Catalogues is kept and from which each boy replenishes his stock as it is exhausted.

Press Associations and Foreign Press.—The entire ground floor of Pavilion C.

Local Press.—The entire first floor of Pavilion C.

Cafe.—The entire third floor of Pavilion C.

Foreign Affairs.—The entire second floor of the southwest pavilion (D). Entering the rotunda from the north, take the second section of elevators to the right.

Express Companies.—The entire ground floor of Pavilion D.

Bank.—The entire first floor of Pavilion D.

Lockers of Columbian Guard.—The entire third floor of Pavilion D.

Admission.—An admission fee of 50 cents entitles the visitor to see and enter all the Exposition buildings, inspect the exhibits, and, in short, to see everything within the Exposition grounds, except the Esquimaux Village and the reproduction of the Colorado Cliff dwellers. For these as well as for the special attractions on Midway Plaisance a small additional fee is charged. While the plaisance is a portion of the Exposition grounds, it is devoted wholly to side exhibitions. Still the visitor may pass through this strip of land without cost and see the beautiful buildings which have been erected as characteristic of half a score of foreign nations. There are no commutation rates of admission. The charge of 50 cents is made for each admission of all visitors over twelve years of age. Children under six years of age are admitted free when accompanied by attendant with admission ticket; over six and under twelve, 25 cents.

Admissions and Collections Building.—This building is occupied by the auditor, treasurer, superintendent of admissions and superintendent of collections and their staffs. The building is 162x70 feet, two stories high and covers a ground area of 11,340 square feet. It is located immediately west of the Horticultural Hall and north of the Service Building. It cost $85,000.

Annexes.—All of the annexes are scarcely less imposing and architecturally beautiful than the main buildings themselves. The live-stock sheds, which cover an immense area, were constructed as inexpensively as possible without marring the general architectural effect. The power houses, pumping works, etc., are exhibits in themselves, and so constructed as to be readily inspected by visitors.

Area of Buildings.—The total exhibition area under roof of all the buildings erected by the Exposition company is 199.9 acres. Of this, about 80 acres are in galleries, and 40 acres in the live-stock sheds.

Area of the Grounds.—Six hundred and thirty-three acres. Of this, 80 acres are in the Midway Plaisance and 553 acres in Jackson park. There was available for buildings 586 acres, there being 77 acres in the wooded island and the interior water-ways.

Art Institute.—The Directory of the World’s Columbian Exposition contributed $20,000 toward the building of the new Art Institute, located on the Lake Front, at the foot of Adams street, and the Exposition is interested in the institution to the extent of its use for the World’s Congress Auxiliary. It is built of stone, in Renaissance style, and is 340 feet long and 180 feet wide. It cost $600,000. It is open free to the public as an art institute on Wednesdays, Saturdays, all legal public holidays, and from 1 to 5 o’clock Sundays. At other times, except when the Congresses are in session, an admission fee is charged.

Attractions to which an Extra Fee is Charged.—Following are the attractions on the grounds to which, in nearly all cases, an extra fee is charged in addition to the admission fee of 50 cents. These attractions are the property of private individuals or corporations and are not integral parts of the Exposition proper:

- Constantineople Street Scene, Midway Plaisance—Turkish Theatre (two performances daily), admission 50 cents; Persian tent, admission 25 cents; panorama, Syrian photos, admission 25 cents; Turkish restaurant, native musical performances, tribe of Bedouins, admission 25 cents.
W. B. CONKEY.

PRESIDENT W. B. CONKEY COMPANY,
OFFICIAL PUBLISHERS TO THE WORLD'S COLUMBIAN EXPOSITION.
WORLD'S COLUMBIAN EXPOSITION.

Cairo Street, Midway Plaisance—Egyptian amusements, native dancing, snake-charmers, fortune-tellers, conjurors, musical and theatrical performances, collections, photos, pictures and paintings, wedding processions and mouléd; admission until 11 a.m. 25 cents, reserved seats 25 cents; after that hour free. Egyptian temple, admission 25 cents.

Dutch East India Village, Midway Plaisance—Two theaters (one on each side of street), exhibitions by native bands, jugglers, snake-charmers, dancers (male and female), and other characteristic entertainments. Admission fees to be approved by Committee on Ways and Means. At present, admission 25 cents.

German Village and Town of Medieval Times, Midway Plaisance—German and Bavarian bands in connection with restaurant, museum of curios, antiquities, and works of art peculiar to Germany. Admission 25 cents. German tribes representing house of the Upper Bavarian Mountains, Black Forest or Salatian, the Allman Tribe, the Hessian or Altenburg House of Silesian Bauren, Middle Germans, Westphalian Hof of the Lower Saxons, etc. Such tribes and houses to constitute the village.

Plaisance, Midway Plaisance—Natatorium with musical performances. Admission, with use of baths, 50 cents.

Esquimau Village, Jackson Park—Esquimau village, Labrador trading post, and native exhibit. Admission 25 cents.

Moorish Palace, Midway Plaisance—Exhibit and sale of native goods, chamber of horrors, trip through Switzerland, trip to the moon, camera obscura, representatives in wax, etc. Moorish Palace, right to exhibit $1,000,000 in gold coin. Cafe in connection. Admission to amusement features, 25 cents.

Panorama of Bernese Alps, Midway Plaisance—Scenery of Switzerland. Admission 50 cents.

Panorama of Volcano of Mount Kilauea, Midway Plaisance—Painting to faithfully reproduce in miniature the volcanic action of the crater of Mount Kilauea. Admission 50 cents.

Algerian Village, Midway Plaisance—Algerian village, Tunis and Algeria streets and bazaars, etc., concert hall, cafe, Kabyle House, tents, etc. Admission 25 cents.

Hungarian Concert Pavilion and Cafe, Midway Plaisance—Musical entertainments, theatrical performances, gypsy bands, native performers in native dress. Admission 25 cents.

Venetian Glassware and Mosaics, Midway Plaisance—Factory in full operation, sale of Venetian and Florentine wares. Admission 25 cents.


Irish Village and Blarney Castle, Midway Plaisance—Representing ruins of Blarney Castle, exhibit and sale of Irish products by natives.


Persian Building, Midway Plaisance—Exhibit and manufacture and sale of distinctively Persian goods. Musical entertainments, etc., native artisans and performers. Admission 50 cents.


Costumed Natives of Forty Countries, Midway Plaisance—Exhibit of natives, appropriately costumed, from at least forty of the countries of the world; sell photographs of same. Admission 25 cents.

Typical Irish Village with Native Inhabitants, Midway Plaisance—Admission 25 cents.

Japanese Bazaars, Midway Plaisance—Manufacture and sale of Japanese articles; native attendants. No admission fee.

Vienna Cafe and Concert Hall, Midway Plaisance—Restaurant with musical performances. No admission fee.

Competitive Musical Exercises, Festival Hall—Musical exercises Sept. 6, 7, and 8. Prices to be approved by Exposition company.

Model of St. Peter's Church, Rome, Midway Plaisance.—Admission 25 cents.

Hagenbeck's Zoological Arena, Midway Plaisance—Exhibition of wild animals, etc. Admission to building 25 cents. Seats in amphitheater from 25 cents to $1.

Tunisian Exhibit and Cafe, French Government Section, Jackson Park—Cafe with musical entertainments and exhibits of Tunisian goods. No admission fee.

Mammoth Crystal Cave, Horticultural Building—Reproduction of the mammoth crystal cave situated near the City of Deadwood, S. D. No admission fee.


Vienna Menilnocracy.—Musical exercise in Festival Hall during the summer months of 1893. Prices to be approved by the Bureau of Music.

Whaling Bark “Progress,” South Pond—The old whaling bark “Progress,” to install and maintain Chinese fishing and museum illustrating the whaling industry. To contain all marine curiosities and relics. Admission 25 cents.

Electric Scenic Theatre, Midway Plaisance—Showing a landscape or other scenes under the changing light as a day passes. The effects being products by a multitude of various colored electric lights. Admission 25 cents.

East Indian wares, Midway Plaisance—Exhibition and sale of native wares. No admission.
Festival Hall, Jackson Park—Musical entertainments by world's famed artists and musical societies throughout the Exposition period. Price of admission $1.

Captive balloon, Midway Plaisance,—Balloon ascensions; elevation 1,500 feet, two trips an hour. Admission to enclosure 25 cents; trip in balloon 50 cents. Each passenger making ascension is entitled to photograph of party.

Barre Sliding Railway, Midway Plaisance—10 cents a ride.

Constantinople Street Scenes, Midway Plaisance.—Sedan chairs. Rent, with two native carriers, $1 an hour.

Cairo Street Scenes, Midway Plaisance—Donkey and camel rides; 50 cents an hour for donkeys, 25 cents for ride through street on camel.

Dutch East India Village, Midway Plaisance—Palkees and other native vehicles for transportation may be approved by Committee on Ways and Means.

World's Fair Steamship Company—Transportation of passengers to and from Jackson Park, round trip 25 cents.

Electric Intramural Railway.—Eleven railroad about Jackson Park, 10 cents for round trip or part thereof.

Steam Launches—Transportation through outer lagoons, basins and Lake Michigan, round trip 25 cents.

Electric Launches—Transportation through lagoons and basins, round trip 25 cents.

Wheel Chairs—Roller chairs about grounds and buildings, 75 cents an hour with attendant, 40 cents an hour without attendant.

Venetian Gondolas and Barges—About lagoons and basins, with gondoliers, 50 cents per round trip.

Elevators in Transportation Building.—Ten cents a ride.

Elevator to the Roof of the Manufactures Building.—Fifty cents for trip.

Vertical Revolving Wheel, Midway Plaisance.—The wheel 250 feet in diameter and 137 feet in height; 50 cents for ride of two round trips.

Movable Sidewalk, Long Pier, Jackson Park—Electrically propelled sidewalk; 5 cents a ride from shore to end of sidewalk, or vice versa.

Boats.—The interior waterways of the ground are equipped with speedy small boats for pleasure and transportation purposes. The boats are driven by steam and electric power. Every principal building on the grounds can be reached by water, and there is an ornamental landing for each. There are three classes of boats—first, the "omnibus," carrying from thirty to forty passengers, which makes the round trip of the waterways, stopping at each landing; second, the "express," which makes round trips of the waterways without stopping; third, the "cab," which may be hailed at any point, like the hansom cab on the street, and employed by the trip or by the hour. Besides these boats genuine Venetian gondolas ply the streams.

Bonded Warehouse.—Near the Sixty-seventh street entrance where foreign goods for exhibit are unloaded.

Bridges.—There are sixteen bridges over the lagoons and canal, with iron trusses, each ornamented architecturally to a high degree.

Building Material.—In the erection of the Exposition buildings it is estimated 75,000,000 feet of lumber are required. This represents 5,000 acres of standing trees. The structural iron and steel required is 20,000 tons.

Children's Building.—This structure is 150 feet long by 90 feet wide. The plan of the ground floor shows two principal entrances on the north side, connected with large galleries which allow the visitor to look at the crèche on the west side. There are large assembly and exhibition rooms on the east, offices on the north, and in the middle of the building a large hall devoted to physical culture. On each side of the offices are stairs for the use of children and on the opposite side is a large stairway for visitors. On the second story are four principal rooms which can be seen from galleries. They are devoted to deaf mutes, slojd, kitchen garden and kindergarten. On the third story is a play garden roof, protected by awnings, decorated with all sorts of plants and with two large aviaries full of birds. The exterior of the building is very plain, for a pretentious classic architecture would be out of place there. The only decoration of the walls is a frieze painted on a blue ground and eight medallions of children. All that is drawn in modern American style. The cost of the building is $80,000.

Cliff Dwellers.—The adobe home of the Cliff Dwellers is near the Anthropological Building. The home is a reproduction of Battle Rock Mountain in the MacElmo Valley of Colorado. It is built of stone, iron, staff and wood, but is artistically arranged to imitate nature, and is covered with vines and moss. The entrance is through a cave in the side of the mountain. The interior contains cactus and other vegetation. Caverns open from the sides of the cañon and in them may be seen a mummy, utensils, etc., as found on the original site. Various implements of the dwellers are scattered around.

Columbian Guard.—A military organization, under the control and direction of the Exposition company, and having no connection with the city police department. The guard is under command of Col. Edmund Rice, U. S. Army, whose title in the guard is commandant. The guards do police and fire-patrol duty inside the grounds and at the gates. It numbers 2,000 men. The secret service part of the command is under charge of John Bonfield.

Colonel Rice started out with the idea of making the Columbian Guard a model organization of selected men, physically, mentally and morally qualified for the work required of them. The following officers of the regular army were detailed to assist Colonel Rice in his duties, and
were assigned as follows: Captain Fred A. Smith, Twelfth United States Infantry, as adjutant of the guard and commanding Company E and patrol system; First Lieutenant C. B. Hoppin, Second United States Cavalry, as quartermaster, and First Lieutenant R. J. Irvine, Eleventh United States Infantry, commanding Company B. Each member of the Guard performs his eight hours of duty during the twenty-four. The two reliefs which do the work during the day have four hours on, then four hours off. The night relief has a continuous tour of eight hours. It is all so arranged that no two companies or reliefs are changing at the same hour, day or night.

The uniform consists of a light blue cloth sack coat, ornamented with five rows of black braided across the front, each row terminating in a clover-leaf knot; black braid on the cuffs of the sleeves, with three small brass buttons on each cuff and five large ones down the front of the coat. The trousers are of a lighter blue than the coat and trimmed with two rows of flat black braid down each outside seam with a narrow red stripe between. The fatigue cap is made high for the addition of a black pompon on occasions of ceremony, which, together with the black braid shoulder knots and aiguillettes with belt and short sword, constitutes the full dress. The ornaments are a blazing sun, from the center of which an eagle’s head appears, worn on the left breast; a whistle for the purposes of signal and alarm; on the right breast a cross-bow after the pattern of 1492, on which is the guard’s number, and on the cap a crossed gun and sword in the center of which is a miniature morion, or leather helmet, such as was in vogue during the time of Columbus.

**Cold Storage Building.**—This pavilion is 150x255 feet. It is Romanesque in style, and five stories high. At each corner there is an imposing tower, from which an extensive view of the grounds may be had. The central tower is a “smoke stack,” and probably the most artistic one ever seen. It is 191 feet in height and elaborately decorated. In building the most interesting features are the three 120 ton “Hercules” Ice Making Machines, and the visitors can see how artificial ice is made.

**Casting Tower.**—This is one of the most popular structures on the grounds, and it is generally admired for its beauty of architecture. It is located at the south end of the Peristyle, and its dimensions are the same as the Music Hall at the north end, 140x260 feet. It contains restaurants and resting room as a part of the Bureau of Public Comfort, and is a favorite resort for visitors.

**Compared with Paris and Philadelphia Expositions.**—That the World’s Columbian Exposition at Chicago in 1893 is by far the greatest Exposition ever held is shown by the following comparison:

<table>
<thead>
<tr>
<th>Area of grounds in acres</th>
<th>Paris</th>
<th>Philadelphia</th>
<th>Chicago</th>
</tr>
</thead>
<tbody>
<tr>
<td>228</td>
<td>284.49</td>
<td>639</td>
<td></td>
</tr>
<tr>
<td>Area occupied by buildings in acres</td>
<td>75 1/2</td>
<td>70.08</td>
<td>142 1/4</td>
</tr>
<tr>
<td>Number of main buildings</td>
<td>5,189,828.32</td>
<td>8,726,032.46</td>
<td>1492</td>
</tr>
<tr>
<td>Cost of buildings</td>
<td>$3,903,760.08</td>
<td>$5,189,828.32</td>
<td>$7,268,032.46</td>
</tr>
<tr>
<td>Cost per square foot</td>
<td>$1.74</td>
<td>$2.16</td>
<td>$3.99</td>
</tr>
<tr>
<td>Area covered by buildings, square feet</td>
<td>2,052,684</td>
<td>4,323,330</td>
<td>9,188,888</td>
</tr>
<tr>
<td>Exhibit space (approximate)</td>
<td>3,052,684</td>
<td>4,323,330</td>
<td>9,188,888</td>
</tr>
</tbody>
</table>

**Convent of La Rabida.**—An exact reproduction of the Convent of La Rabida in Spain, where Columbus found shelter, in time of trouble, for himself and boy, and where, it is said, he developed his theory of an undiscovered continent in the west, has been erected in the southern part of the grounds. The building is considered more closely connected with Columbus and his great work than any other. It cost $50,000.

**Daily Columbian.**—This is a daily newspaper made up of the first pages of Tribune, Herald, Record, Times and Inter-Ocean, and three other pages of matter collected, edited, set up and printed on the grounds. It serves as an exhibit of how a morning newspaper is produced.

**Electricity.**—Seventeen thousand horse-power for electric lighting is provided for the Exposition Company. This is three times the electric lighting power in use in Chicago and ten times that provided for the Paris Exhibition of 1889. There is 9,000 horse-power for incandescent lights, 5,000 for arc lights, and 5,000 for machinery power. This supplies 93,000 incandescent lights and 5,000 arc lights. The buildings provided with electric power are: Mines, Electricity, Agriculture, Transportation, and Manufactures. The electric plant cost $1,000,000.

The scheme for lighting the main basin on fete nights during the Exposition includes thousands of incandescent lights of different colors. One row extends just above the water’s edge all around the basin, and another row reflects deeper into the water from a few feet higher up. Still higher on the loggias of all the buildings that surround the basin are other rows of lights with here and there a colonnade design. Rows of lights also reach around the colonnade story of the Administration building, while the lower part of the building is lighted from the dome and sides. At the base of each tier of the MacMonnies fountain is another row of lights, over which the water falls from the basin above. There are also various search-lights to help out the effect. One of these is placed in the mezzanine floor of the Administration Building to play on the MacMonnies fountain. Another on the Electricity Building throws its light on the Statue of the Republic at the east end of the basin, and still others are employed to help out at other laces. The effect of all these many-hued lights reflecting in the water is dazzling and beautiful.
**Festival (Choral Hall).—**This building stands upon the shore of the lagoon at a point where the two great promenades meet. Its location enables it to be seen from distant parts of the grounds across the lagoon with its beautiful wooded island and green shores. To one side stands Horticultural hall, while Transportation hall stands on the other. The style of the building, which is Doric, makes it simple and severe in treatment; its form, which resembles an amphitheater surmounted by a dome, gives the building, both externally and internally, a rounded form, from which project on the four sides porticoes, the one facing the lagoon being the principal entrance, and enriched by fluted Doric columns six feet and a half in diameter. From the portico leads a flight of spacious steps, at the foot of which stand two statues, being reproductions of celebrated marbles of Handel and Bach. On either side of the portico are panels in relief work representing the progress of music, and in the panels over the doors are relief portraits of Gluck, Berlioz, Wagner, Schumann, Schubert, Mozart, Mendelssohn, Bach, Handel and Beethoven. The interior has the form of a Greek theater, except that the chorus of 2,500 voices occupies the part assigned by the Greeks to the stage, and thus it becomes amphitheatrical in form. There are no galleries of any kind to obstruct the view or sound. The building will seat 6,500 persons. The decoration of the interior is in the same order as the exterior in relief work and color. A large foyer extends around the building, giving ample room for promenade.

**Fire Department.—**During the construction work it consisted of eighteen men, three engine houses, three two-horse engines, one one-horse engine, one sixty-gallon hand tank (at the Forestry Building), twenty-six hose carts, with 13,250 feet of hose, and 470 chemical hand extinguishers. The fire pressure is 100 pounds to the square inch, supplied by the engines in the temporary power house. In the complete system of fire protection there is in each building a water standpipe, and the ground is reached by hose coils or galleries. A reel of hose which throws water automatically with the unreeling of the hose. During the Exposition there is a fire patrol on every floor, gallery, and roof. The city fire department is at the call of the Exposition force.

**Fountains.**—The McMonnies fountain stands at the head of the Basin, immediately in front of the Administration Building. Its waters are illuminated by electricity. There are two electrical fountains fifty feet in diameter, to the right and left of the McMonnies fountain, two smaller fountains in front of the Fine Arts Building and one in front of the Woman's Building. Certainly no more striking, and perhaps no more perfect a work of art can be found among the groups and figures of sculpture which adorn the grounds than McMonnies' fountain. It arrests attention even among the wealth of attractive objects which are visible in that portion of the park, and grows in the admiration as one observes and comprehends the exquisite detail in which the artist has executed a design of bold and large conception. Mr. McMonnies is the sculptor of whose fertility of imagination and skill in production this Pean is the creation. The idea presented by the work is that of Columbia, the genius and apotheosis of freedom and liberty. The ship of state floats in the center of a circular basin, or lake, and is idealized by a triumphal barge. In the prow is a winged figure of Victory heralding the advance of Freedom by blast of trumpet, and bestowing laurels on her champions with the disengaged hand. The barge is attended by eight sea-horses, each besdridden by the animated figure of a youth who urges his steed onward. The rowers are eight female figures, representing Music, Architecture, Sculpture, Painting, Agriculture, Science, Industry, and Commerce. These stand on platforms which rest on shields and moldings of emblematic device; the forward poise of the bodies as they lean to the oars, and the tresses and drapery blown to the rear, conveying the sensation of motion. Omnipresent in the group is a river goddess, seated upon a pedestal bearing the arms of the republic, is Throned Columbia, calm and erect in conscious strength, but pose and features expressing vigilance as becomes one who knows the price of liberty. Her feet rest on the globe in token of Freedom's triumph, her right hand rests lightly on the back of the chair around which her garlanded and happy children kneel; in the left hand she extends aloft the torch that lights the world. Victory at the prow; Time at the helm; the Genius of Liberty sailing with serene confidence toward the Future. Such is the story of the sculpture. The proportions of the work are on a grand scale. The smallest figure is 12 feet in height. The culmination of brilliant effects produced when the great electric fountains on either side of the McMonnies memorial are brought into play. They are much larger than anything of the kind ever attempted before and were put in at a cost of $50,000. The basins in which the apparatus is fixed are 60 feet in diameter. The floors are pierced for 304 jets altogether, by means of which the water is sent to a height of 150 feet. Like the rest of the display the prettiest effects are produced by concealed lights, thus doing away with the marring by the glare of the exposed light while adding the charm of mystery to the source of illumination. The whole apparatus is controlled by electric signals from one of the domes of Machinery Hall. From there the different lights are turned on and the transition from one form to another controlled. A 36-inch main supplies the water. Illumination is by 38 arc lights of 100 amperes each, requiring nearly 1,000 horsepower in operation.

**Grading and Dredging.**—In this preparatory work, about 1,200,000 cubic yards of earth were handled. The work began in February, 1891, and was finished the following July. Cost, $495,000. The ground was originally a series of sand ridges, covered with scrub oak trees.

**Grand Central Court.**—The center or axis of the court is formed by the water basin. Its foot is marked by the Peristyle, its head by the Administration Building. It is flanked on the north by the Manufactures, Electricity and Mines buildings, and on the south by the Agricultural and Machinery buildings. The completed work presents a magnificent view by day and a gor-
geous spectacle by night. The court at night is elaborately illuminated with electricity. The architectural outlines of the buildings and the shore lines of the basin are delineated in incandescent lights. Powerful search lights bathe the marble-like palaces in floods of ever-changing light, and the great electric fountain at the head of the Basin will, at times, spout an iridescent deluge.

Guides for Strangers—Uniformed guides are scattered over the grounds to conduct strangers to points of interest.

How to Reach the Grounds.—The Exposition grounds include all of Jackson Park and the Midway Plaisance, and lie seven miles south of the City Hall, or center of the down-town district.

Visitors can reach the grounds from the city:
By the Illinois Central railroad, leaving the cars at South Park station, Sixtieth street, or Woodlawn Park station. Starting from the pier at the foot of Van Buren street special World's Fairs trains run through to the Exposition, without stopping at way stations, making the trip in fifteen minutes. These trains begin running at an early hour in the morning, and are run every five or ten minutes as occasion may require. Fare each way, 10 cents. Regular suburban trains run from the foot of Lake street, stopping at Van Buren, Congress, Sixteenth, Twenty-second, Twenty-seventh, Thirty-first, Thirty-sixth, Thirty-ninth, Forty-third, Forty-seventh, Fiftieth, Fifty-seventh, Sixtieth and Thirty-third streets, making the time in twenty minutes. Single fare each way, 22c ents. A twenty-five-ride commutation ticket from Lake street to Sixty-third street, good for passage on suburban and World's Fair trains, can be purchased at any of the company's ticket offices for $2.50. The capacity of the Illinois Central is 50,000 per hour.

By World's Fair Steamship company, leaving the docks on the Lake Front, between Monroe and Van Buren streets, and landing at the Exposition pier, opposite the foot of Sixtieth street. Round trip fare, 25 cents. Capacity, per hour, 15,000 passengers.

By the Chicago Great Western cable cars, which run as far as the South Park entrance to the grounds. Fare, 5 cents each way. Capacity, per hour, 20,000 passengers.

By the State street cable cars. Fare, 5 cents each way. Capacity, per hour, 20,000 passengers.

By the Elevated Railroad from Congress street, which runs to the Sixtieth street entrance. Fare, 5 cents each way. Capacity, per hour, 20,000 passengers.

By Baltimore & Ohio and Northern Pacific lines. Capacity, 15,000 per day, from western suburbs.

By numerous cabs, hacks and coaches and by water crafts from landings on the river.

Indian School.—This building is a two story frame, 124 x 28 feet, with a one story L in the rear, 37 x 81 feet. These are exterior dimensions. The interior dimensions differ but slightly, as it is an ordinary balloon frame. The first floor has rooms arranged along one side of an eight-foot hall, which will be used as two shops, one sewing-room, one sitting-room, two reception-rooms, one school-room and two toilet-rooms. The L contains a dining-room and two pantries. From each end of the hall are stairways leading to boys' dormitory, girls' dormitory and seven rooms for employes on the second floor. On the walls of the lower hall, which is well lighted, are cases containing specimens of Indian school work. A plain roofed porch in front of the entrance is forty feet long and ten feet wide. The building cost $7,300.

Insurance.—The amount of fire insurance carried is about $15,000,000. The Exposition company insures only its own property, or property held by it in trust.

Interior Water-ways.—Include eight divisions of water within the grounds, connecting with one another. The "Basin" extends east from the Administration Building to Lake Michigan. It contains 10½ acres. The "south canal," 2½ acres, extends south from the head of the Basin. The "north canal"—3½ acres—extends north from the head of the Basin. The lagoon around the wooded island contains 23 acres. The lagoon, north of the island, running to Lake Michigan, contains 33 acres. The lagoon, south of the Agricultural Building, contains 8¾ acres. The Lake, south of the Fine Arts Building, 7½ acres. The pond, in the north part of the grounds, contains 1½ acres. Total area of interior water-ways, 61 acres.

Intramural Railroad.—The car house and power house for the railroad are east of the dairy barns. The road is elevated, has electric power, and will transport visitors about the grounds.

Krupp Gun Exhibit.—One of the most interesting places to visit is the Krupp quarters in the southeastern part of the grounds. This famous gunmaker, who was asked personally by his Emperor to make a showing here, has erected a building 85 feet by 200, with an annex on each side running the length of the building and 25 feet wide. The two side buildings are given up to the various kinds of iron and the big one is devoted exclusively to guns, big and little, slow firing and quick, for marine and land batteries. The big gun weighs 122 tons, is 48 feet long, with a 42-centimeter bore, and fires an explosive shell weighing 2,500 pounds a distance of sixteen miles. This is the largest gun in the world and it costs $1,250 to discharge it. Gisbert Gillhausen, the engineer who represents Krupp here, suggests that even though the cost was large the directors of the Exposition might save money after the show closed by firing the gun, as the concussion would undoubtedly knock down all the great buildings in Jackson Park and thus save a lot of labor in their removal. Beside the big gun there are two naval guns, one 36 feet long, weighing 65 tons; another 37 feet long, weighing 45 tons. These two are worked by hydraulic pressure. Two more, designed for coast defense, one 92 and the other 25 feet long, weighing respectively 33,000 and 15,000 pounds, are shown. They are of a new pattern. Armor
plates are shown from 10 to 16 inches thick, but nothing has been made thick enough yet to stop that 2,300-pound shell. The value of the Krupp display is about $1,000,000.

**Leather and Shoe Trades Building.**—The Leather and Shoe Trades Building is situated on the shore of the lake, south of the great central basin, southeast of the Agriculture Building, and lies between the Krupp Gun Exhibit and the Forestry Building. It is 575 feet long and 150 wide, its greatest length being from north to south. In the center of the building is a hall, 64 feet wide by 480 feet long and 50 feet high; around the hall are the galleries, 42 feet wide, 18 feet high on the first floor, and 22 feet high on the second floor. The building is well lighted by 520 windows and skylights, and is built entirely of wood. The exterior covering is of staff and plaster.

Two large stairways at the end of the hall lead to the galleries or second story; two small ones, in the center of the building, lead directly to the offices and restaurant. A bridge at the height of the Krupp Gun Exhibition building by the loading and to the dock of the World's Columbian Exposition, on account of the Leather and Shoe Trades Building. Work upon this building was commenced December 5, 1892, and completed and ready for the reception of exhibits on April 1, 1893. It contains all the domestic exhibits of leather, boots and shoes, rubber boots and shoes, and of the allied trades; also the exhibits of leather, in all forms, from all the foreign countries exhibiting at the World's Columbian Exposition. Fine exhibits have been prepared by a large portion of the shoe and leather trade of the United States and the following countries, and are shown in the building, erected exclusively for leather, viz: France, Germany, Russia, Austria, Spain, Japan, Mexico, Brazil, Venezuela and the Argentine Republic. There is also shown in the building leather curios from the different foreign countries, such as the native foot-gear, clothing, harness, saddles, bags and such articles from museums and private collections as have been made famous by age and association. A model shoe factory is in operation in this building, and more than one thousand pairs of shoes are manufactured daily during the Exposition. The entire second floor is devoted to machinery, which includes the model factory, shoe, leather and rubber machinery. Mr. Clinton Collier is the superintendent of the Leather and Shoe Trades Exhibit, and the exhibit is under the part of the Department of Manufactures.

**Living Indians.**—Various tribes of American Indians are encamped near the Anthropological Hall and this is one of the attractive features of the Ethnological Exhibit. The Indians live on the grounds in the same manner they do on their respective reservations, showing their canoes, costumes, hunting and fishing apparatus, trinkets, etc.

**Machine Shop.**—A complete outfit of repairing tools and machines is furnished free as an exhibit. The machine shop, pump house and power house cost $85,000.

**Diplomas.**—The winning exhibitors will each receive a bronze medal and a handsome diploma, setting forth the specific purpose for which the medal was awarded. Provision has been made for 75,000 medals and diplomas.

**Merchant Tailors' Building.**—This building was erected under the supervision of the Chicago Merchant Tailors' World's Fair Committee, of the Merchant Tailors' National Exchange of the United States of America, at a cost of $80,000, the money having been raised by voluntary contributions from the merchant tailors and woolen and trimming merchants of the United States. The building is 94 feet each way over all. It is 56 feet 6 inches square, in length measurement, and is in the form of a Greek temple, a reproduction of the Erechtheum, at Athens, finished about 410 B. C., planned by Pericles, and erected under the supervision of Phidias, the great Greek sculptor. The interior of the main room is octagonal in shape, which forms a small room in each corner. Upon the north and south sides is a semicircular room, 14x22 feet. The toilet and semicircular rooms, also the portico fronting upon the lagoon, are strictly private for the exclusive use of subscribers to the Building Fund. The walls are finished in cream and gold and decorated with mural paintings, representing the eight great historical periods of dress: First, Adam and Eve making aprons of leaves; second, a Barbarian scene; third, Egyptian; fourth, classical Greek; fifth, medieval; sixth, renaissance; seventh, Louis the XIV to XVI; eighth, modern. There are also other frescoes emblematic of the trade. The floor leading from the entrance to under the dome, and all of the space under the dome (circle, 33 feet in diameter), is covered by ceramic mosaic from Shropshire, England, which, with the rich drapery of the entrances to the private reception rooms make the merchant tailors' exhibit hall most attractive. The building is near the bridge across the north pond.

**Midway Plaisance.**—A strip of land 600 feet wide and seven-eighths of a mile long, between Fifty-ninth and Sixtieth streets, containing 80 acres, connecting Jackson and Washington Parks. In this section are located many of the amusement attractions outside the main exhibition buildings, all of them being private concessions.

**Music Hall.**—The Music Hall, which is located on the shore of Lake Michigan at the northern end of the great Peristyle, is 140 feet wide by 246 feet long, and about 65 feet high. The main audience room is in the center of the building, and is 126 feet long by the full width of the same, and occupies the full height of the structure. The space for the orchestra and choruses is at the east end, and it is in the form of a great hemicycle or recess, which opens into the main hall by an arch 66 feet wide and 34 feet high. This recess is semi-circular in plan at the rear and 90 feet deep from the front of the arch to the back of the circle. The ceiling of this recess or hemicycle is shaped like a quarter section of a sphere, so that the sound of the music is projected forward into the audience room.

Just outside of the arch on the main floor is the platform for the orchestra with the choruses rising behind on a series of wide steps. To the west of the orchestra is the parquette, which will
seat from 800 to 1,000 persons. These seats are also arranged on wide steps or platforms which rise gradually to the rear end, thus giving an uninterrupted view of the stage and conductor to every person. All around this parquette, except on the side occupied by the stage, is a loggia or passage about 20 feet wide, connecting with the main hall by many wide doorways, thus giving ample space for the entrance and exit of the audience with comfort and celerity. Above this loggia, which is about 20 feet high at the entrance and 14 feet high at the parquette, is the great balcony, which will seat about 1,200 persons. The seats here are also arranged on rising steps, so that every one can have a perfect view of the stage and of the audience in the parquette below. The seats of the balcony sweep round in a semi-circle at the west end opposite the stage, thus giving the audience room and the stage combined the form of a great oval. Around the front of the balcony are Corinthian columns which support the roof, and over the inner space is a large skylight which gives ample light by day. Around the rear of the balcony are also a series of large windows commanding a view of the pond and the lake on the north. The main entrance is at the west end through three wide archways into a great vestibule 60x80 feet, and thence through three great openings into the loggia about the parquette. On each side of this vestibule are wide and easy stairways, giving access to the balcony and second story of the building, and over the vestibule is a smaller hall 60x80 feet in size, which is for a recital hall, etc. Opening off this hall are several rooms, used for offices or dressing rooms, about 25x40 feet each. Opening upon the vestibule, loggia and the balcony above are large and numerous dressing and cloak rooms of about the same size as above. At the other end and opening from each end of the orchestral platform are rooms for the accommo-
dation of the Director of Music and the principal singers and performers, with ample toilet rooms connected therewith. At the rear of the hemicycle are large rooms for the chorus, and reached by private entrances directly from the seats. Above these rooms are others of the same size which are used for meetings and as offices for the Bureau of Music. There is a third floor, which also contains several large rooms for general purposes. On this floor and over the balcony is a large standing place of the same size as the balcony below, which opens upon the main hall, through an opening at the rear end, and is supported by the rear wall, which will hold a great many people in case of an extra occasion, and is reached by ample stairways. The interior of the hall is richly decorated in color, with emblematic paintings on the face of the east wall above the great arch, and in the panels of the ceiling. It has been specially planned for acoustic effect. The great arch of the hemicycle is richly ornamented with architectural detail, and the whole can be brilliantly lighted by electricity in the most novel effects. The architecture of the exterior is, like that of the Casino and Peristyle—Roman Corinthian—and richly ornamented in detail. Around the exterior vapor covers are carried by the columns are inscribed the names of the great composers, and on the pedestals of the balustrade surrounding the cornice are placed many statues, 12 feet high, emblematic of the art of music.

The Bureau of Music, composed of Theodore Thomas, Musical Director; William L. Tomlins, Choral Director, and George H. Wilson, Secretary, has announced the following plan in general for music during the six months of the Exposition:

1. Semi-weekly oratorio concerts in Music Hall.
2. Semi-monthly choral concerts in Music Hall.
3. Six series of international concerts, choral and orchestral, each consisting of from four to six, in Festival Hall and in Music Hall.
4. Three series of oratorio festivals by United American Choral societies in Festival Hall.
5. Concerts in Festival Hall, under the auspices of German singing societies.
6. Concerts in Festival Hall, under the auspices of Swedish singing societies.
7. Six series of popular miscellaneous festival concerts by American singers.
8. Twelve children’s concerts by Sunday-school, public school, and specially organized children’s choirs.
9. Chamber music concerts and organ recitals.
10. Daily popular concerts of orchestral music in Festival Hall.

New England Clam Bake Building.—This building is located on the north pond near a group of foreign buildings. Its dimensions are 60x120 feet. It is used as a fish restaurant. The upper story is occupied as headquarters of Knights Templars.

Other International Expositions.—The following table shows some interesting facts concerning eight International Expositions held in the past:

<table>
<thead>
<tr>
<th>Where held</th>
<th>Year when held</th>
<th>Number of exhibiters</th>
<th>Number of admissions</th>
<th>No. of days open</th>
<th>Average daily attendance</th>
<th>No. of acres occupied by buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td>London</td>
<td>1851</td>
<td>17,900</td>
<td>6,039,195</td>
<td>144</td>
<td>41,938</td>
<td>21</td>
</tr>
<tr>
<td>Paris</td>
<td>1855</td>
<td>22,000</td>
<td>5,182,330</td>
<td>200</td>
<td>25,811</td>
<td>24 1/2</td>
</tr>
<tr>
<td>London</td>
<td>1862</td>
<td>29,000</td>
<td>6,211,103</td>
<td>171</td>
<td>36,822</td>
<td>28 1/2</td>
</tr>
<tr>
<td>Paris</td>
<td>1867</td>
<td>52,000</td>
<td>10,200,000</td>
<td>217</td>
<td>47,470</td>
<td>37</td>
</tr>
<tr>
<td>Vienna</td>
<td>1873</td>
<td>42,009</td>
<td>7,254,687</td>
<td>286</td>
<td>39,003</td>
<td>40</td>
</tr>
<tr>
<td>Philadelphia</td>
<td>1876</td>
<td>60,000</td>
<td>9,910,996</td>
<td>159</td>
<td>62,383</td>
<td>56</td>
</tr>
<tr>
<td>Paris</td>
<td>1878</td>
<td>52,000</td>
<td>13,000,000</td>
<td>194</td>
<td>67,010</td>
<td>60</td>
</tr>
<tr>
<td>Paris</td>
<td>1889</td>
<td>60,000</td>
<td>32,354,111</td>
<td>183</td>
<td>181,170</td>
<td>75 1/2</td>
</tr>
</tbody>
</table>

Peristyle.—The connecting structure between the Music Hall and the Casino, at the foot of the Basin. It is 600 feet long, 60 feet wide and 60 feet high. At its center is a grand archway, forming a portal from Lake Michigan to the Grand Central Court. This portal is dedicated to Columbus, and is inscribed with the names of the world’s great explorers. Crowning it is a group of statuary, emblematic of the progress of the world. The Peristyle bears forty-eight
columns, representing the States and Territories. Each State’s column bears its coat of arms. The cost of the Peristyle, with the Casino and Music Hall, was $300,000.

Piers.—There are four piers in all. These are the Park Haven, 250x2,300 feet, and carrying a movable sidewalk upon it, which has a loop at both ends; the north-inlet pier; the pier around the battleship and the down-town pier.

Polish Building.—The Polish Building is constructed after the style of a country pavilion, such as is found in the forests of that land. Its dimensions are 50x80, and its height is two stories. It contains a restaurant conducted upon the Russian and Polish plans, where meals are furnished cooked in the manner peculiar to those two lands. This structure is located near the Fisheries Building. It cost $10,000.

Power House.—Here are stationed the engines for the 24,000 horse-power provided. The largest engine in the plant is about twice the size and power of the celebrated Corliss engine. Oil is used for fuel. The boilers present a solid bank 600 feet long. Of the 24,000 horse-power, 17,000 is provided for electricity.

Puck Building.—This pavilion is located between the Woman’s and Horticultural buildings. Its form is a parallelogram, and as to architecture it is a combination of all that is airy and graceful. The southern entrance is through a semi-circular porch supported by six elaborately carved columns of quaint design. The central group represents the Puck, holding in one hand a crayon and in the other a mirror, while on his head is the proverbial pot hat. Beneath this figure are grouped figures of cupids emblematic in their expressions of naughtiness, mischief, and good natured fun. Every department in the production of Puck is exhibited in the building. Artists at work, type-setting, color printing on power-presses, folding and stitching, are shown, and prove of great interest to visitors.

Pumping Works.—The two pumps have a capacity of 40,000,000 gallons of water per day, which constitutes the main Exposition water supply.

Sale of Liquor.—Prohibited within the grounds, except in restaurants. Required to be served only at table in connection with meals.

Saw-Mill Exhibit.—This exhibit is in connection with that of Forestry, and it is entirely distinct from the displays of saw-mill and wood-working machinery, which are installed in the Machinery Building. Four saw-mill plants are installed, occupying altogether a building measuring 125x300 feet. The building is plainly constructed, costing only about $85,000, but affords ample facilities for a competitive display of saw-mill plants and the latest improvements in connection with the same. Exhibitors of saw-mill plants in this building bear the expense of installing and operating them. One-half of the building is two stories high, to accommodate bands and gangs and to provide also a gallery from which visitors may view the working of the machinery to good advantage and without danger. This exhibit is a very novel and interesting one, as well as instructive to those who desire to witness the workings of the latest and most approved saw-mill machinery.

Sewerage.—The rain water from the roofs is conducted by one system of underground pipes into the interior waterways. The flood water from the ground is conducted by another system of pipes into Lake Michigan. The sewage proper is forced by hydraulic pressure through a third system of pipes to the cleansing works. Here it is precipitated into tanks, where it is purified by a chemical process, and the solids are pressed into cakes and burned under the boiler of the sewage plant. This sewage system is on a scale sufficiently large for a city of 600,000 population, and constitutes an exhibit in itself.

Special Days.—Special days are to be a great feature at the Exposition. Many of the States of the Union have their day, upon which special exercises will be held, and their Governors and staff, other State officers, military and thousands of their distinguished and other citizens will be in attendance. Receptions will be held at the State buildings, respectively, and the Governors and others will make speeches. Many musical, civic and secret societies also have days upon which to hold exercises peculiar to themselves. It is believed that these special features will draw many additional thousands of visitors.

Following are the dates assigned by the committee on ceremonies for State, foreign and other celebrations:

<table>
<thead>
<tr>
<th>State</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kentucky</td>
<td>June 1</td>
<td>Turner band</td>
</tr>
<tr>
<td>Denmark</td>
<td>June 5</td>
<td>New South Wales</td>
</tr>
<tr>
<td>Nebraska</td>
<td>June 8</td>
<td>National Union</td>
</tr>
<tr>
<td>Travelers' Protective Association</td>
<td>June 10</td>
<td>Knights of Pythias</td>
</tr>
<tr>
<td>France</td>
<td>June 14</td>
<td>J. O. Forrester</td>
</tr>
<tr>
<td>Germany</td>
<td>June 15</td>
<td>Hayti</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>June 17</td>
<td>Austria</td>
</tr>
<tr>
<td>North Dakota</td>
<td>June 20</td>
<td>North Carolina</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>June 21</td>
<td>Colorado people</td>
</tr>
<tr>
<td>Sweden</td>
<td>June 24</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Millers' Day</td>
<td>June 29</td>
<td>Nicaragua</td>
</tr>
<tr>
<td>Independence Day</td>
<td>July 4</td>
<td>Catholic Education Day</td>
</tr>
<tr>
<td>College Fraternities</td>
<td>July 20</td>
<td>New York</td>
</tr>
<tr>
<td>Columbia</td>
<td>July 20</td>
<td>Brazil</td>
</tr>
<tr>
<td>Utah</td>
<td>July 24</td>
<td>California</td>
</tr>
<tr>
<td>Liberia</td>
<td>July 26</td>
<td>Maryland</td>
</tr>
<tr>
<td>Commercial travelers</td>
<td>July 26</td>
<td>Michigan</td>
</tr>
<tr>
<td>Country</td>
<td>Months</td>
<td>Single Figure</td>
</tr>
<tr>
<td>--------------</td>
<td>------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>Sept. 15</td>
<td>Sons of America</td>
</tr>
<tr>
<td>Mexico</td>
<td>Sept. 15</td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td>Sept. 15</td>
<td></td>
</tr>
<tr>
<td>New Mexico</td>
<td>Sept. 16</td>
<td></td>
</tr>
<tr>
<td>Nebraska</td>
<td>Sept. 18</td>
<td></td>
</tr>
<tr>
<td>Colorado</td>
<td>Sept. 19</td>
<td></td>
</tr>
<tr>
<td>Montana</td>
<td>Sept. 20</td>
<td></td>
</tr>
</tbody>
</table>

Special days have already been held as follows:

<table>
<thead>
<tr>
<th>Country</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catholic Knights of America</td>
<td>May 9</td>
<td>Norway</td>
</tr>
<tr>
<td>Vermont</td>
<td>May 10</td>
<td>Wisconsin</td>
</tr>
<tr>
<td>Washington</td>
<td>May 17</td>
<td>Maine</td>
</tr>
</tbody>
</table>


**Machinery Hall.**—10 Figures of "Sciences." The East Pediment. Figure of "Victory," of which 18 casts were made in copper, by W. H. Mullins, of Salem, Ohio. M. A. Waagen, sculptor. 64 Figures of "Victory," of which four casts were made in copper, by W. H. Mullins, Salem, Ohio. Robert Kraus, sculptor.

**Colonade.**—One Cattle Group. One Horse Group. Four Large Lions, at the base of the obelisk. M. A. Waagen, sculptor.


**Horticultural Building.**—10 Groups of Inventors. 8 Groups. 5 Bas-Reliefs, representing progress in transportation methods. J. J. Boyle, sculptor.


**Animals for the Bridges.**—Six Native Animals of America, modeled by each of these gentlemen: Edw. Kemeyes, A. P. Proctor, sculptors.

**Woman's Building.**—Pediment, "Glorification of Woman's Work." 12 Groups, 6 casts each of "Hope" and "Charity." Miss Alice Rideout, sculptor.

**Statue of "Neptune."** Duplicated Six Times, on Rostrum Columns. Johannes Gelert, sculptor.

**Statue of the Republic.**—Mr. D. C. French's statue, "The Republic," is impressive and imposing in the highest degree. Rising from the waters of the lagoon, with the Peristyle for a background and facing the Administration Building, it is not dwarfed by comparison with either. Of colossal size (the statue proper is 65 feet in height), the characteristics of the figure are simplicity and grandeur. The pose is firm and majestic; the drapery chaste and severe; the expression is that of confident power and benign purpose. The arms are uplifted with easy grace; the right hand holding aloft a globe on which is perched the American Eagle; the left grasping a staff crowned with a Liberty cap. The statue is gilded. The head is encircled by a crown, the jewels of which are electric lights.

**Statue of Benjamin Franklin.**—In South Hemicycle of Electricity Building. Carl Rohi-Smith.


**Kentucky Building.**—Statue "Daniel Boone." By Miss Yondell, sculptor.

**Staff.**—A composition of plaster, cement, and hemp, or similar fiber. All the Exposition buildings, and many of the State Buildings are covered with staff. It is lighter than wood, is fireproof, weatherproof, and, if kept painted, will last many years. The architectural and sculptural designs in the covering of the buildings are first modeled in clay, from which model molds are made, and the staff covering is then cast very much as iron is cast. Staff has been used for more than 100 years as a covering for buildings, notably in South America.

One of the wonders of staff as seen at the Exposition is its color. Grayish-white is its natural tone; and the basis of its success at Jackson Park; but it will take any tint that one chooses to apply, and maintain a liveliness akin to the soft bloom of the human skin. Staff is an expedient borrowed from the Latin countries, and much cultivated in South America. Any child skilled in the mechanism of a mud pie can make it, after being provided with the gelatine molds.
and a water mixture of cement and plaster. When the staff has hardened, the resultant cast is definite, light and attractive. A workman may walk to his job with a square yard of the side of a marble palace under each arm and a Corinthian capital in each hand. While it is a little green it may be easily sawed and chiseled, and nails are used as in pine. Moreover rough joints are no objection, since a little wet plaster serves to weld the pieces into a finished surface.

**Telegraph Service.**—Visitors, especially those from distant lands, are afforded an object lesson in the form of a magnificent model of a modern telegraph office handsomely equipped and in practical operation. The arrangements made by the Western Union are on a scale, as to dimensions and beauty, that will compare favorably with any exhibit on view at the Exposition. The main telegraph office on the grounds is located in the southeast wing of the Administration Building. It is finished in oak, and contains four counters at which business may be simultaneously filled. There are desks for seventy-two operators. This force does not include the manager, chief operators, clerks, and messengers. This branch office has direct connection with the various cable offices in New York. Direct wires also connect the Administration Building office with the main offices of the Western Union in New York, Washington, and all the larger cities in the United States, where newspaper and other "loops" may be attached. In addition to the central office eighteen other offices are scattered throughout the grounds in the most accessible and desirable locations. There are two such branch offices in the Manufacturers Building, one in the Electrical Building, one in Machinery Hall, one in the Casino, one in the Agricultural Building, one in the Terminal station, and one at the Ferris Wheel on Midway Plaisance, with others at suitable contiguous points. All of these offices are equipped as the highest types of perfection. Each of the branches has direct connection with the central office in the Administration Building and with the main operating-room of the Western Union, at the corner of Jackson and Clark streets. For the purpose of establishing perfect connection with the Exposition grounds the Western Union has erected fifteen miles of nineteen-conductor aerial cables, each capable of handling any number of wires, thereby giving seventy-six possible circuits radiating from the ground-station. The entire Exposition plant is operated by a complete system of dynamo currents and supplied with all the latest modern electrical appliances.

**Telephone Facilities.**—The New York, Boston and Philadelphia wires of the Long Distance Telephone Company are connected with the World’s Fair Exchange. Connections have been made at New York with telephones in other eastern cities. This has been arranged to continue during the Exposition, so that at any time visitors can converse by telephone with relatives, friends, or business partners in the cities of the New England and Middle States.

**The Administration Building.**—This is probably the most beautiful structure in the highest art known to moderns, lead up to the gallery from the main floor. In actual use the gallery is an additional waiting-room, but it also is a convenient place for friends to meet. In the upper part of the great hall there is a frieze of clock faces twenty-four in number and five feet in diameter. They give the time of day or night at twenty-four of the principal cities of the world. The great hall in its principal features and proportions, is adapted from the hall of the Baths of Caracalla at Rome. The construction material consists of wood and iron and the exterior and interior finish and decoration is of staff. Rising above the station are two illuminated balls of metal and glass, ten feet in diameter. They show clock faces in every direction giving local time. The terminal facilities include everything except baggagerooms. Trunks of excursionists over the various roads will not be taken into the grounds at all, but will be delivered from the down-town depots.

Connected to the west side of the station is the perron, or landing platform, 80x672 feet, with an overhanging roof, from which a system of umbrella sheds, 13 in number, extend westward a distance of 500 feet.

The entire system of trackways is concentrated here upon 35 tracks. A platform extends along the west side of the station on the level of the second story, with wide covered passage-ways leading over the roof of the Perron to the intramural elevated railway, which crosses the system of surface tracks above mentioned.

The entire cost of the main building is $250,000, and of the perron and umbrella sheds, $50,000, making a total of $310,000.

**Terminal Tracks.**—The terminal tracks proper are twenty-six in number, terminating at the west side of the train shed, where are located the entrance and exit gates. In addition to these twenty-six tracks, are nine passing tracks which can be used in an emergency service. Beyond these terminal tracks is the storage yard which consists of twenty storage tracks and four running tracks. In the center of the yard between the storage and terminal tracks is provided a sixty-six foot turntable for the purpose of turning engines or cars if required. There there also provided five water cranes connected with a 50,000 gallon water tank, for the purpose of furnishing water to the locomotives. For the operation of this terminal, power interlocking is provided. There are in the grounds two switch cabins or towers A and B. The south tower B, contains seventy levers and controls the entrance into the terminal and the south end of the storage yard.
north tower A, contains 160 levers and controls the north end of the storage yard and the terminal tracks proper. The power is steam, furnished by a battery of boilers at each tower. The steam forces a column of water through an iron pipe under ground, which in turn throws the switch or signal. On approaching the yard a train meets with a signal, and from that time on is completely under the control of the superintendent of terminals, who, acting through the levermen in the towers, guides it to its proper track, without any possibility of mishap or danger.

Viaducts.—Have been built by the Exposition Company over Stony Island avenue, Madison avenue, and Woodlawn avenue, as well as the Illinois Central tracks at Van Buren street.

White Star Line Building—Adjoining the "Puck" building and used as an exhibit for the "White Star Line" of Trans-Atlantic steamers.

Women's Dormitory.—For the benefit of the great army of "industrial women," "wage-earners" and "working girls," who visit the Exposition, the Woman's Dormitory Association was formed, the object being to procure for these women a good, clean, safe home at reasonable rates. A building not far from the grounds has been erected capable of sheltering 1,000 women per day. This dormitory is furnished with comfortable beds and to the number of 560, and is supplied with refined, motherly women who keep a watchful care over unprotected girls who come singly or in groups. Stock in the association, in shares of $10, was issued to a large number of deserving women, and the shares are taken at the dormitories in payment for lodging bills. Only two persons are allowed to come at one time on a single share. These shares are transferable, and if the face value is not used by the holder during her stay, it can be made over to another, who can use the balance. After the $10 has been used the share still stands on the association books, credited to the holder and she is entitled to her pro rata of the profits, if a surplus remains after the enterprise is closed. The rate per day to stockholders does not exceed forty cents; non-holders of stock are charged a slightly higher rate.

The dormitory is located on Ellis avenue, occupying the entire block between Fifty-second and Fifty-third streets. This location is one of the pleasantest portions of Hyde Park, some ten or twelve blocks from the Exposition, and within three blocks of the Cottage Grove avenue cable line which, for a five-cent fare, carries passengers in six or eight minutes to the Exposition grounds. It is a frame structure, two stories high, built for the association and newly furnished with pianos, bookcases, comfortable beds, and good accommodations. About one-half of the rooms are single; the balance double; all looking out upon the street, yard, or inner court. No beds are wide enough to accommodate two adults, but children young enough to sleep two in a bed are charged half rates, provided the full rate for the bed is paid. In connection with the dormitory there is a restaurant established for the sole use of its guests where meals are scheduled at reasonable rates and guaranteed quality. The dormitory is under the auspices of the local Board of Lady Managers and other philanthropic women who have given much thought and time to the enterprise, believing it to be a worthy object, and that it will, as carried out, afford means to hundreds of women to visit the Exposition who otherwise would not make the venture or be able to afford the expense.

Wooed Island.—Contains sixteen acres; is devoted to floriculture and horticulture, except the extreme north end, which is occupied by the Japanese exhibit.

Windmill Exhibit.—Located to the south of Machinery hall. Numbers of windmills are to be seen in operation.

Miscellaneous Buildings.—In addition to the above mentioned buildings there have been erected for Exposition purposes the following: Photographic Building, Model Building, Silos, stock barns, perron and sheds, freight houses, stock ring, company's shops, company's barn, tank house, Service Building and entrances, fire and police stations, city police stations at Woodlawn and Hyde Park, sheds for empty cases, two chocolate pavilions, eight Indian houses, garbage crematory, Pennsylvania railroad exhibit, New York Central railroad exhibit, army hospital, besides numerous buildings and booths of concessionaries, and the structures on the Midway Plaisance, such as those of Algeria and Tunisia, with many buildings; the Austrian village, about twenty buildings; captive balloon; Chinese village; Dahomey village; Diamond Match Company; Ferris wheel; German village, over thirty buildings: Hagenback's animal show; National Hungarian Orpheum; Irish industries; Irish village, nine structures; ice railway; Japanese bazaar; Libby Glass Company; lecture hall; Moorish palace; natatorium; National Dress and Costume Company; Persian concession; panorama of Bernese Alps; Panorama Kilauen; St. Peter's model; Venice Murano; Vienna cafe; the Workman's home; South Sea Island village, etc.
THE WORLD'S CONGRESSES OF 1893.

WHAT THEY ARE AND WHEN AND WHERE THEY WILL BE HELD.

The World's Congress Auxiliary.—President, Charles C. Bonney; vice-president, Thomas B. Bryan; treasurer, Lyman J. Gage; secretaries, Benj. Butterworth, Clarence E. Young. The Woman's Branch of the Auxiliary: President, Mrs. Potter Palmer; vice-president, Mrs. Charles Henrotin.

The World's Congress Auxiliary is not only the accredited representative of the World's Columbian Exposition, but also of the Government of the United States, for the conduct of a series of International Congresses at Chicago during the Exposition season of 1893.

The official announcement of the auxiliary has been sent to foreign countries by the Department of State, and the foreign governments have been invited to appoint delegates in addition to those who will attend as the representatives of institutions and societies.

The chief object of the auxiliary is to procure the maturest thought of the world on all of the great questions of the age in a form best adapted for universal publication. Unprepared discussion or miscellaneous debate will not be desirable, but instead thereof, the time at disposal after the delivery of the formal discourses, will be given to the most eminent persons present, who will speak on the call of the presiding officer, and to whom such previous notice as may be practicable will be given.

The summaries of progress to be presented, and the problems of the age to be stated, will not be submitted to the vote of those present, but will be offered for subsequent deliberate examination by the enlightened minds of all countries for unrestricted discussion in the forum, the pulpit, and the public press, and finally for the impartial judgment of that exalted public opinion which expresses the consensus of such minds.

As soon as the location of the World's Columbian Exposition was fixed at Chicago it was felt that no merely material exhibition would answer the demands of the time. The intellectual and moral forces of the nineteenth century having become so potent and active, that there at once arose a demand for their proper presentation in connection with the proposed Exposition. A formal proposal of a series of World's Congresses soon followed, and the evolution of that proposal steadily proceeded until the present time. The primary idea of the project was that many of the leaders of human progress will naturally come to the Exposition of 1893, and that it is due to them that some arrangements be made under which those of similar tastes and callings from the different countries may form the acquaintance of each other and engage in friendly conference on matters of common concern.

This primary idea developed into the secondary thought that to increase the benefits of such acquaintance and conferences and to enlarge the attendance at the Exposition, a reasonable effort should be made to induce a general attendance of those persons who have taken an active part in any of the great fields of human endeavor.

This secondary idea speedily developed into a third—that instead of leaving the intellectual and moral administration of 1893 to occupy a merely incidental relation to the material exhibit, a proper organization should be effected, an adequate and comprehensive plan devised, and a persistent and well directed effort made to crown the Exposition of 1893 by a proper presentation of the achievements of human genius in a series of great assemblies to which the chief apostles of progress in all countries should be invited, and which should be closed with the formation of a series of world-wide fraternities, to promote the future welfare of mankind.

The work of the auxiliary has been divided into nineteen great departments, with more than one hundred divisions in which congresses are to be held. Each division has its own local Committee of Organization, and each committee has its own advisory council, composed of eminent representatives, selected from different parts of the world, who are interested in the subject to which it pertains.

The World's Congresses of 1893 will be held in the permanent Memorial Art Palace, erected on the Lake Front Park, through the co-operation of the Art Institute of Chicago, the City of Chicago, and the Directory of the World's Columbian Exposition. This "World's Congress Art Palace" will have two large audience rooms arranged to seat about three thousand persons each; and more than twenty smaller rooms, which will accommodate from one hundred to seven hundred persons each. Meetings of such a character as to draw a large popular audience will be held in the main audience rooms, while meetings of chapters or sections of different congresses for the discussion of subjects of a more limited interest, will be held in the smaller rooms.
It will thus be possible to have two general congresses and twenty special congresses or conferences in session at the same time, and to have three times as many meetings within a single day by arranging different programmes for morning, afternoon, and evening sessions; but it is not anticipated that so many daily meetings will be required in any department of the World's Congress work, nor that, as a general rule, any congress, or section, will desire to meet more than once or twice in a given day.

No admission fee will be charged to any of the congresses held under the direct auspices of the World's Congress Auxiliary, and all persons interested will be admitted as attending members after having registered in the office of the secretary where tickets may be obtained.

General assignment to the months of the Exposition season of the World's Congresses of 1893, by departments:

**MAY.**

III. Medicine and Surgery, commencing May 20th.

**JUNE.**

IV. Temperance, commencing June 5th.

V. Moral and Social Reform, commencing June 12th.

VI. Commerce and Finance, commencing June 19th.

**JULY.**

VII. Music, commencing July 3rd.

VIII. Literature, commencing July 10th.

IX. Education, commencing July 17th.

**AUGUST.**

X. Engineering, commencing July 31st.

XI. Art, Architecture, etc., commencing July 31st.

XII. Government, Law Reform, Political Science, etc., commencing August 7th.

XIII. General Department, commencing August 14th.

XIV. Science and Philosophy, commencing August 21st.

**SEPTEMBER.**

XV. Labor, commencing August 28th.

XVI. Religion, Missions and Church Societies, commencing September 4th.

XVII. Sunday Rest, commencing Sept. 28th.

**OCTOBER.**

XVIII. Public Health, commencing October 13th.

XIX. Agricultural, commencing Oct. 16th.

Congresses have been held as follows:

**MAY.**

I. Woman's Progress, commencing May 15th.

II. The Public Press, commencing May 18th.
GENERAL RULES AND REGULATIONS.

Early in the organization of the Exposition rules and regulations were promulgated for the benefit of exhibitors, concessionaires, etc. They are as follows:

1. Exhibitors will not be charged for space. A limited amount of power will be supplied gratuitously. This amount will be settled definitely at the time space is allotted. Power in excess of that allotted gratuitously will be furnished by the Exposition at a fixed price. Demands for such excess must be made before the allotment of space.

2. Any single piece or section of any exhibit, of greater weight than 30,000 pounds, will not be accepted if machinery is required for its installation.

3. Exhibitors must provide, at their own expense, all show cases, cabinets, shelving, counters, fittings, etc., which they may require, and all countershafts, pulleys, belting, etc., for the transmission of power from the main-shafts.

4. Exhibitors will be confined to such exhibits as are specified in their applications. When the allotment of space is definitely made, exhibitors will be notified of their allotment of space and its location, and will be furnished with a permit to occupy the same, subject to the general rules and regulations adopted for the government of the Exposition and the special rules governing the Department in which their exhibits will be made. Permits for space will not be transferable.

5. Special rules will be issued governing each department and the sale of articles within the buildings or on the grounds, but no article shall be sold for removal previous to the close of the Exposition, unless a concession or privilege for the same has been granted by the Committee on Ways and Means. "Privileges" refer to the sale of such goods as are manufactured in order to illustrate a machine or process exhibited. "Concessions" refer to the sale of all goods and operation of attractions from which the securing of revenue is the sole object of the lessees. The removal of exhibits will not be permitted prior to the close of the Exposition.

6. Decorations, signs, dimensions of cabinets, shelving, counters, etc., and the arrangement of exhibits, must conform to the general plan adopted by the Director-General.

7. Reasonable precautions will be taken for the preservation of exhibits; but the World's Columbian Exposition will not be responsible for any damage to, or for the loss or destruction of, an exhibit resulting from any cause.

8. All packages containing exhibits intended for the several Departments must be addressed to the "Director-General, World's Columbian Exposition, Chicago, Illinois, U. S. A." In addition, the following information must be written on the outside of each package:

(a) Department in which exhibit is to be installed.
(b) The State or Territory from which the package comes.
(c) The name and address of the exhibitor.
(d) The number of the permit for space.
(e) Total number of packages sent by the same exhibitor.

The serial number must be marked on each package and a list of the contents enclosed in each package. Freight must be prepaid.

9. Favorable terms will be arranged by which exhibitors may insure their own goods. Exhibitors may employ watchmen of their own choice to guard their goods during the hours the Exposition is open to the public. Such watchmen will be subject to the rules and regulations governing the employees of the Exposition; but no exhibitor will be permitted to employ attendants for service in any building, except upon written consent of the Chief of the Department.

10. The expense of transporting, receiving, unpacking and arranging exhibits, as well as their removal at the close of the Exposition, shall be paid by the exhibitor.

11. If no authorized person is at hand to take charge of exhibits within a reasonable time after arrival at the Exposition buildings, they will be removed and stored at the cost and risk of whomsoever it may concern.
12. The installation of heavy articles requiring foundations, should, by special arrange-
ment with the Chief of Construction, begin as soon as the progress of the work on the buildings
will permit. The general reception of articles at the Exposition buildings will commence
November 1, 1892, and no article will be admitted after April 10, 1893. Space not taken pos-
session of April 1, 1893, will revert to the Director-General for reassignment.

13. If exhibits are intended for competition it must be so stated by the exhibitor, or they
will be excluded from examination for award.

14. The Chief of each Department will provide cards of uniform size and character, which
may be affixed to exhibits, and on which will be stated only the exhibitor’s name and address,
the name of the object or article exhibited, and its catalogue number.

15. Articles that are in any way dangerous or offensive, also patent medicines, nostrums,
and empirical preparations whose ingredients are concealed, will not be admitted to the Exposition.

16. Exhibitors’ business cards and brief descriptive circulars only may be placed within
such exhibitor’s space, for distribution. The right is reserved to restrict or discontinue this
privilege whenever it is carried to excess or becomes an annoyance to visitors.

17. The Chief of each Department, with the approval of the Director General, has the
power to order the removal of any article he may consider dangerous, detrimental to or in-
compatible with the object or decorum of the Exposition, or the comfort and safety of the public.

18. Exhibitors will be held responsible for the cleanliness of their exhibits and the space
surrounding the same. All exhibits must be in complete order each day, at least thirty minutes
before the hour of opening. No work of this character will be permitted during the hours the
building is open to the public. In case of failure on the part of any exhibitor to observe this
rule, the Chief of the Department may adopt such means to enforce the same as circumstances
may suggest.

19. Sketches, drawings, photographs, or other reproductions of articles exhibited will
only be allowed on the joint assent of the exhibitor and the Director-General; but general views
of portions of the interiors of the buildings may be made on the approval of the Committee on
Ways and Means.

20. Immediately after the close of the Exposition exhibitors must remove their effects,
and complete such removal before January 1, 1894. Goods then remaining will be removed and
disposed of under the direction of the World’s Columbian Exposition.

21. An official catalogue is published in English, French, German and Spanish. The sale
of catalogues is reserved exclusively by the Exposition Company.

22. Each person who becomes an exhibitor thereby agrees to conform strictly to the
rules and regulations established for the government of the Exposition.

23. Communications concerning applications for space and negotiations relative thereto
should be addressed to the “Director-General, World’s Columbian Exposition, Chicago, Illinois,
U. S. A.”

24. The Management reserves the right to construe, amend or add to all rules and regula-
tions whenever it may be deemed necessary for the interests of the Exposition.

GEORGE R. DAVIS,
Director-General.

Award of Medals and Certificates.

Extracts from the adopted report of the Committee on Awards of the World’s Columbian Exposition:

The committee recommends that awards shall be granted upon specific points of excel-
lence or advancement, formulated in words, by a board of judges or examiners, who shall be
competent experts; and the evidence of these awards shall be parchment certificates, accom-
panied by bronze medals.

The awards of these boards of judges or examiners will thus constitute an enduring and
historical record of the development and progress as represented by the exhibits in question; the
parchment certificate will, by sufficient terms of identification, evidence the award, and the bronze
medal will serve to the exhibitor as an enduring memento of his success. Those exhibits which
in the opinion of the juries and examiners do not possess sufficient excellence or intrinsic
development to warrant awards, will simply be scheduled in the General Catalogue of the Expo-
sition.
Free Importation of Articles.

The United States Government regulations governing the free importation of articles for exhibition at the Exposition, as issued by the Treasury Department at Washington, were as follows:

1. It is the purpose of this department to secure expedition and security to all articles imported for exhibition at the Chicago Exposition, without the exaction of customs duties, fees or charges, and to arrange the proceedings on entry so as to afford the utmost convenience and despatch.

2. In order to obtain the benefits of this arrangement, every package destined for the Exposition should have affixed to it by the foreign shipper one or more labels representing the flag of the country to which it belongs. This label should be about eight by twelve inches in size, and should bear across the face, in plain black letters, the inscription "Exposition at Chicago." All packages should be plainly marked, as follows: (1) "Collector of Customs, Chicago;" (2) "Exhibit for Columbian Exposition;" (3) Name of consignee or agent at the port of first arrival in the United States; (4) The shipping marks and number of the exhibitor; (5) Name and address of the exhibitor.

3. Every foreign exhibitor will prepare, in duplicate, a statement in the form of an invoice, which shall show the name of the exhibitor, the marks and numbers of the packages, with a description of their contents and a declaration of the quantity and the market value of each separate kind thereof in the country of production. This statement must be signed by the exhibitor, but will require no further verification. One of the invoices will be transmitted by mail to the Collector of Customs at Chicago, and the other to the consignee of the goods at the port of first arrival.

4. As a matter of convenience, it is recommended that all packages intended for the Exposition shall be consigned to an agent or forwarder, or commissioner, at the port of first arrival, who will attend to customs business incident to the transfer of packages from the importing vessel to a bonded route for transportation to Chicago. All the bonded transportation lines will discharge their freight at stations in Chicago to be arranged within the Exposition grounds, and packages marked as suggested in Article 2 may be taken to their respective divisions as soon as they have been identified by the customs officers.

5. (Shows the list of companies bonded for the transportation of merchandise to Chicago, without appraisement.)

6. The consignee of the merchandise at the first port of arrival must present at the custom house the invoice above described, with a bill of lading and an entry in duplicate made out upon the special form to be provided for this purpose by the Treasury Department, which shall show the name of the foreign shipper or owner, the name of the importing vessel, the marks and numbers of the packages with a statement of the nature of their contents and of their foreign value, as declared in the invoice. The entry must also indicate the bonded route by which the goods are to be transported to Chicago, and must be signed by the consignee. No other declaration will be required. The goods will be consigned, on the customs entry, to "Collector of Customs, Chicago," and there need be no computation of duties upon this entry, but the amount charged against the bond of the transportation company shall be double the invoice value.

7. The collector will thereupon issue a special permit bearing the words "Chicago Exposition," authorizing the transfer of the goods from the ship to the bonded railroad for transportation to Chicago, and will record and file one of the entries in his office and send the other by mail, with the invoice, to the collector at Chicago.

8. The permit will be taken by the agent or consignee to the inspector on board the importing vessel, who will thereupon send the goods, by a cartman duly licensed, to be delivered under the supervision of a customs officer to the transportation company.

9. The consignee will also prepare a manifest of the goods, which, after being duly certified, will be handed to the conductor of the car carrying the same, and a duplicate copy must be signed by the collector of customs at Chicago. Upon arrival at Chicago of any car containing such articles, the conductor or agent of the railroad company will report such arrival by the presentation of the manifest to the customs officer designated to receive it, who shall compare the same with the copy received by mail, and superintend the opening of the car, taking care to identify the packages by marks and numbers as described in the manifest. In case of the non-receipt of the manifest, the unloading of cars need not, for that reason, be delayed, but the invoice may be used to identify the packages.

10. Articles sent by foreign governments to the Exposition, which are used solely for government purposes and are not intended for sale, will be admitted to entry at the exterior port
of arrival on certificates of the proper foreign commissioner, without the production of invoice. But it is desired that the estimated value of each package shall be stated on the certificate or the bill of lading, in order that the pecuniary responsibility of the transportation company may be fixed.

11. These regulations will also apply to goods sent to the Exposition from foreign contiguous territory. All articles destined for the Exposition, arriving from Canada on through cars under consular seal, and articles which are sent direct by vessel from any foreign port to Chicago, must be consigned by the foreign shipper to the "Collector of Customs" at that port, and on entry being made, as in the case of goods arriving at the seaboard, a permit will be issued for the transfer of the goods directly to the Exposition grounds.

12. The buildings and space set apart for the purposes of the Exposition are constituted "Constructive Bonded Warehouses and Yards," and all foreign articles placed therein under the supervision of the customs officers, and which have been specially imported for exhibition therein, will be treated the same as merchandise in bond. No warehouse entry will be required at Chicago in order to obtain entrance for such goods, but the latter will be kept under customs supervision in accordance with the general regulations governing merchandise in bonded warehouses, except as herein otherwise provided for. The collector at Chicago will keep a special record, in the form of a warehouse ledger, of every invoice, assigning serial numbers to the same in order of their reception, and the transportation entry received from the collector at the port of arrival will be considered the warehouse entry.

14. As, under the United States tariff, the cost of packages is made a part of the dutiable value of imported goods, the empty boxes, barrels and casks from which imported articles have been taken in order to be displayed should be carefully preserved so as to be repacked for expectation at the close of the Exposition. Dutiable packing cases not exported will be subject to the payment of the excise duty. The place of storage and the number of each empty package, and the latter should be recorded and numbered for identification.

15. Packages containing articles imported for gratuitous distribution, or for actual use and consumption in restaurants, refreshment rooms, etc., must be regularly entered for consumption and duty paid thereon before being delivered by the customs officers.

16. The articles after having been received in the Exposition will remain under the custody of the customs officers, and must not be removed from the place assigned without a permit from the Collector of Customs or the officer who may be designated by him to grant such permit. In no case may the articles be removed from the custody of the officers and entrusted to the keeping of persons not designated as such.

17. Sales may be made, during the Exposition, of articles imported for exhibition, but deliveries of the same will be allowed only at the close of the Exposition. For this purpose a regular withdrawal as from bond will be required, and duty must be paid according to law. In case the articles are sold for delivery at some port other than Chicago, a withdrawal may be made for transportation and re-warehouse, duty to be paid at the place of destination. Any exhibitor of articles which shall be sold may authorize withdrawal of the same by the purchaser, such authority to be contained in a written notice to the Collector at Chicago. After the filing of such notice the person specified in the same shall be recognized as entitled to all rights and subject to all the liabilities of the original importer.

18. Withdrawal from bond can not be made for less than one entire package, but in case of accidental damage or destruction it is not intended to assess duties upon such articles as shall not have entered into actual consumption in this country. On articles which shall have suffered diminution or deterioration from incidental handling and necessary exposure, the duty, if paid, will be assessed according to the appraised value at the time of the withdrawal for consumption. At the close of the Exposition all goods intended for exportation will be transported in bond to the seaboard or exterior port, and exported therefrom under the general regulations for immediate export in bond, as modified by special regulations to be in due time provided.

20. Any exhibitor who may import merchandise in excess of that which he desires to place on view in the Exposition may make regular warehouse entry of the same on its arrival at Chicago, whereupon it shall be taken to a United States bonded warehouse and stored without payment of duty, subject to the regulations provided for bonded goods. Withdrawals of merchandise stored under these conditions, if made for the purpose of placing the same within the
The general rules governing lessees of concessions are as follows:

1. Lessees and such employees or assistants as may be necessary for the proper conduct of the business will have full access to the Exposition grounds, but they will be subject at all times to the General Rules and Regulations of the Exposition, and shall enter at such gates and at such hours as may be designated by the Exposition management.

2. No business under any of the concessions shall be conducted in other than a first-class, orderly manner. No gambling or games of chance will be allowed anywhere within the Exposition grounds.

3. All buildings, stands, or booths, leased or erected for concessions, shall be open at all reasonable hours to the inspection of the Director-General, and such agents as may be designated by the Exposition management.

4. No transferring or sub-letting of any interest in the concessions granted will be allowed without the written consent of the Exposition management.

5. No employee or assistant of lessees of concessions shall enter upon his duties until his name and address have been registered in the office of the Committee of Ways and Means, who will designate an official number which shall attach to said employee or assistant, and such number must be worn conspicuously by said employee or assistant when on duty, and used as the rules may designate.

6. All goods sold must be what they are represented, and no deception will be allowed.

7. Wagon gates will be open at 5 A. M. and closed at 8:30 A. M., for the purpose of admitting supplies to all those having concessions; all supplies must be brought in between those hours. Only such articles as are covered by the concessioner will be admitted without a special permit.

8. All stands, counters and fittings, together with all decoration, to be erected at the expense of the lessee; plans of the above to be subject to the approval of the Director-General.

9. Solicitation for the sale of goods will not be allowed.

10. Concessions will be limited to a given number of the same in each class or branch concerning which concessions are granted.

11. Lessees will be required to keep their premises clean and in complete order at all times, and shall not permit any violence, coarse or insolent language, or unnecessary noise about their premises. Any employees or assistants, wearing the number assigned by the Exposition management, appearing on the grounds at any time intoxicated, making unnecessary noise or using coarse or insolent language, will be deprived of their number and be immediately and permanently expelled from the grounds.

12. Persons procuring concessions to sell foreign goods will be subject to the above rules, in addition to the regulations issued by the Secretary of the Treasury of the United States, for the protection and collection of the revenue.

13. Any person who attempts to sell, or expose for sale, in the Exposition grounds, or in any of the buildings erected thereon, any article whatever, without having first obtained a concession for such purpose, will be forthwith ejected from the Exposition grounds and prosecuted to the full extent of the law.

14. Any violation on the part of lessees of any of the rules governing the Exposition or concessions, will make void their contract at the option of the Exposition managers.

15. All lessees, assistants and their employees must leave the grounds within two hours after the close of the Exposition.

16. Persons procuring concessions will be required to furnish the Exposition management with a good and sufficient bond for the faithful performance of their contract.

17. The Exposition management reserves the right to amend or add to these rules whenever it may be deemed necessary for the interest of the Exposition and the public good.
Vehicles and Supplies.

1. No wagon or vehicle of any kind propelled by animal or other power will be allowed about the grounds during the hours the Exposition is open to the public, save emergency vehicles, such as fire apparatus, and police or hospital patrol wagons, and wagons or carts propelled by man power. This, however, shall not be taken to prohibit the unrestricted use of the official conveyances of the Council of Administration, Director-General, Director of Works, and such others as may from time to time be expressly authorized and permitted under the specific orders of the Council of Administration.

2. All supplies arriving at the Exposition grounds, either by rail, vessel or team, must be delivered to the designated warehouse, and there stored until after the hour of closing the Exposition, when the work of delivering such supplies, etc., will begin by and under the direction of the Transportation department. The charge for this service will be at the rate of six cents per hundred pounds, with twenty-five cents minimum, with no charge for storage unless supplies remain on hand longer than five days. If held in storehouse more than five days, storage rates will be the same as specified in Circular T. D. 47, of January 4th. Orders for the handling and delivery of goods must be filed at the office of the Transportation department of the Terminal Station not later than 5:00 p.m. of each day, of the service to be performed that night.

3. A limited amount of perishable supplies, such as are absolutely needed, will be delivered through the day by carts propelled by man power. The charge for this service will be twelve cents per hundred pounds, under the same regulations as to the use of warehouses as quoted in Paragraph 2.

4. All such service must be performed by team and employees that are in the service of the Exposition, excepting that the Associated, American and Adams Express companies may deliver packages arriving over their lines with their own forces, but under the direction of the Transportation department, at such hours as above designated. The Hyde Park Gas Company may deliver their materials and tools for making repairs to their system under these same regulations.

5. Payments for this service must be made in advance by means of tickets secured from the Department of Collections.

6. Any complaints regarding the service must be entered at the Transportation department office at the Terminal Station.

Geo. R. Davis,
Director-General.

April 26, 1893
DEPARTMENTAL EXHIBITS.

ON the following pages will be found a full and comprehensive account of the scope and plan of the several great departments, including descriptions of the respective buildings; portraits of the chiefs; classification of exhibits; list of exhibitors, etc., in the following order: Manufactures, Liberal Arts, Machinery, Agriculture, Electricity, Mines, Mining and Metallurgy; Transportation Exhibits, Horticulture, Fine Arts, Fish and Fisheries, Woman's Building, Ethnology, Forestry; also of Live Stock, except a list of exhibitors.
Kent & Stanley Company
Manufacturing Jewelers
Original Makers of the Celebrated
Seamless Filled Gold Chains

* CHARMS *
* LOCKETS *
* PINS *
* BRACELETS *

STERLING SILVER NOVELTIES

Do not fail to examine our display in Dept. 0, N. E. corner Manufactures Building, Group 98, Class No. 612. The finest exhibit of its kind at the World’s Fair.

New York,
17 Maiden Lane.

San Francisco,
Phelan Building.

Boston,
58, Winter Street.

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BRIDGEPORT Elastic Goring

is absolutely unequalled. It has been used for years by thousands of manufacturers, in millions of shoes, with perfect satisfaction.

It is the lightest and most elastic of all Goring, and is fully warranted in every respect for two years.

It looks the best and wears the longest of any Goring manufactured in Europe or America.

It easily surpasses all others except in price.

We are the largest manufacturers of Elastic Goring in the United States, and depend upon the superlative merits of our productions rather than combination with other manufacturers to extend our sales.

We invite correspondence from Manufacturers, Jobbers, and Retailers the world over. Always address

BRIDGEPORT ELASTIC WEB CO.,
Bridgeport, Conn., U. S. A.

(See our Exhibit, Section F, Block V, Column No. 1, Leather and Shoe Trades Building.)
THE MERCK BUILDING.

Specially granted to MERCK & CO., New York, For the purpose of a representative and comprehensive Exhibit of Chemicals and Drugs for medicinal and other uses.

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Manufacturers of
CHEMICALS AND DRUGS
FOR
MEDICINAL, TECHNICAL OR ANALYTICAL PURPOSES
desiring first class representation in the United States of America will find it to their advantage to correspond with

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MERCK & CO. are in direct and constant intercourse with every member of the medical and pharmaceutical profession, and with every firm of the drug and chemical trade in the United States. MERCK & CO. are the largest and best appointed house in America for the introduction and distribution of Chemicals and Drugs and allied articles used in Medicine, Pharmacy and the Arts.

Chemische Fabriken
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Drogen-Handelungen,
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Les Fabricants de
DROGUES ET PRODUITS CHIMIQUES
POUR LA
MÉDECINE, L'INDUSTRIE ET LES ANALYSES
qui désirent des représentants de première classe aux États-Unis sont invités à se mettre en relation avec

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Owing to our unsurpassed facilities we are prepared to execute orders on the shortest notice and at the lowest prices.

COMPILERS AND PUBLISHERS OF:
MERCANTILE, EDUCATIONAL AND MANUFACTURERS' CATALOGUES.
DEPARTMENT H—MANUFACTURES.

THE interest of home manufactures and the world-wide rivalry of inventive genius in the production of labor-saving devices and improved machinery to meet the ever-growing demand, are fittingly illustrated in the great variety of exhibits in the Department of Manufactures, and make it one of the most interesting and instructive features of the Exposition. The department embraces thirty-five exceptionally large groups, divided into 214 classes of the leading industries, collectively representing the products of modern machinery and man's skillful handiwork in many forms and designs. Notice to intending exhibitors was given before installation that it was the desire to encourage only such displays of superior excellence as would best exemplify the signal advances made in the several branches of progressive manufacturing industries of home and foreign production, rather than the semblance of a great and varied warehouse display; hence the space allotted has been reduced to the minimum in order to accommodate the greatest number and render justice to all, irrespective of nations, states or cities. It is hoped that every American exhibitor will keep before him the fact only his own real to his country in product is placed comparison and the best that the present in the same highly developed once, a cultivated lavish outlay can der exhibits at seen in the pavil- Commercial Na pete with us for Their contents fully selected by perts intent only National credit by samples of work branch of industry long. In the For individual is of im so far as he can result. His persight of but he is here merely be to enhance the effect of an aggregation of national skill, taste and enterprise. The interest taken in the Exposition by foreign exhibitors is best shown by mentioning that the following nations, among others, are represented in the displays grouped in this department:

Algeria, Argentine Republic, Austria, Belgium, Bolivia, Brazil, British Guiana, British Honduras, Cape Colony, Canada, Ceylon, Chili, China, Colombia, Costa Rica, Cuba, Curacao, Denmark, Dutch Guiana, Dutch West Indies, Ecuador, France, French Guiana, Germany, Great Britain, Guatemala, Hawaiian Islands, Hayti, Honduras, Italy, Japan, Jamaica, Korea, Madagascar, Mexico, New South Wales, Netherlands, Nicaragua, Norway, Orange Free State, Paraguay, Persia, Peru, Porto Rico, Queensland, Russia, Salvador, San Domingo, Siam, Spain, Sweden, Switzerland, Trinidad, Turkey, Uruguay, Venezuela, Zanzibar.

The building constructed for Manufactures and Liberal Arts is notable
for its symmetrical proportions and is the mammoth structure of the Exposition; indeed, it is the largest building in area ever erected on the western hemisphere and the largest under a roof in the whole world. Despite this fact, every foot of available space is taken and it is even asserted by conservative judges that more than double the space could have been assigned to most worthy exhibits, and even then the clamor for "more room" would not have been wholly satisfied. The immensity of this building is alone intensely wonderful in its grandeur. It is three times larger than the Cathedral of St. Peter, in Rome, and four times larger than the old Roman Colosseum, which seated 89,000 persons. The central hall, which is a single room without a supporting pillar under its roof, has in its floor a fraction less than eleven acres, and the entire building could comfortably seat 300,000 people. There are 7,000,000 feet of lumber in the floor, and it required five carloads of nails to fasten the 215 carloads of flooring to the joists. The exterior outline covers an area of nearly thirty-two acres, and, including galleries encircling the interior, affords in the aggregate forty-four acres of exhibiting space. This vast structure is covered with an arched roof of steel and glass, affording ample light and ventilation. It measures 1,687 by 787 feet. Height of walls, 66 feet. Height of four center pavilions, 122 feet. Height of four corner pavilions 97 feet. Height of roof over central hall, 237.6 feet. Height of roof-truss over central hall, 212.9 feet. Height clear, from the floor, 202.9 feet. Span of truss, 382 feet. Span in the clear, 354 feet. Width of truss at base, 14 feet; at hip, 32 feet; at apex, 10 feet. Weight of truss, 300,000 pounds; with purlines, 400,000 pounds. Cost, $1,700,000. Material—17,000,000 feet of lumber; 12,000,000 pounds of steel in trusses of central hall; 2,000,000 pounds of iron in roof of nave. There are 11 acres of skylights and 40 carloads of glass in the roof. Within the building a gallery 50 feet wide extends around all four sides, and projecting from this are 86 smaller galleries, 12 feet wide, from which visitors may survey the vast array of exhibits and the busy scene below. The galleries are approached upon the main floor by 30 great staircases, the flights of which are 12 feet wide each. "Columbia Avenue," 50 feet wide, extends through the mammoth building longitudinally, and an avenue of like width crosses it at right angles at the center. The building is rectangular in form, and the interior is divided into a great central hall, 380 by 1,280 feet, which is surrounded by a nave, 107 feet wide. It is in the Corinthian style of architecture, and in point of being severely classic excels nearly all of the other edifices. The long array of columns and arches, which its façades present, is relieved from monotony by very elaborate ornamentation. In this ornamentation female figures, symboical of the various arts and sciences, play a conspicuous and very attractive part. The exterior of the building is covered with staff, which is treated to represent marble. There are four great entrances, one in the center of each façade. These are designed in the manner of triumphal arches, the central archway of each being 40 feet wide and 80 feet high. Surmounting these portals is the great attic story ornamented with sculptured eagles 18 feet high, and on each side above the side arches are great panels with inscriptions, and the spandrels are filled with sculptured figures in bas-relief. At each corner of the main building are pavilions forming arched entrances, which are designed in harmony with the great portals. The building occupies a most conspicuous place on the grounds. It faces the lake, with only lawns and promenades between. North of it is the United States Government Building, south the Harbor, and in-jutting lagoon. and west the Electrical Building and the lagoon separating it from the island, This building is provided with 10,000 electric lights and the aisles are lighted with ornamental lamp-posts bearing shielded arc lights.

Following are extracts from the departmental rules:

Exhibitors must be the manufacturers or producers of the goods or materials intended for exhibition.
Articles that are in any way dangerous or offensive; also patent medicines, nostrums and empirical preparations whose ingredients are concealed, are not admitted.

No fire, inflammable oils nor other combustible material will be permitted in the building.

The flooring must not be altered or removed except by the sanction of the Chief of the Department.

In order to encourage pleasing and attractive effects and add life to the various exhibits, where required to keep them moving, a limited amount of noiseless motor power may be applied, subject to the approval of the Chief of the Department.

The following limits must not be exceeded—Platforms: seven inches above the floor. Railings two feet six inches above the platforms (they must be included within the space assigned to the exhibitor.) Counters: two feet ten inches above the floor, on side next passage-way.

The material to be used for covering counters, screens, or partitions is subject to the approval of the Chief of the Department.

Unless otherwise ordered, all signs must be of a uniform design, which will be prescribed by the Department. They must not be made of muslin, linen, canvas or paper. They must be placed parallel with the frontage or passage-ways of the respective stands or exhibits, and must in no case interfere with the light or view.
An American Glass Factory in full Operation.

Among the most interesting exhibits to be seen at the World's Fair is the complete cut-glass manufactory of the Libbey Glass Co.

There the many processes of glass manufacturing may be seen, from the mixing of sand, the oxide of lead, the alkalies and the lime, to the latest and most approved methods of cutting and finishing.

The most prominent feature of the industry is the glass blowing department, where the lively gathering boys, thrusting long irons into the white-hot mouth of the crucible, and bringing forth the waxy mass, and the artisans who blow and fashion it into many shapes, may be seen constantly at work at this interesting vocation.

In the glass cutting department forty men are continuously engaged in cutting the most delicate and intricate patterns. This process is very instructive, and may be easily observed by all who may desire.

LIBBEY GLASS CO.'S FACTORY, MIDWAY PLAISANCE.

In the decorating department are skilled artists painting upon glass, which is afterward put into the kilns and fired. Every branch of American manufacture is fully shown in this building.

Probably nothing at the Fair is more interesting than glass spinning and weaving. Spinning wheels six feet in diameter, making from 300 to 500 revolutions a minute, draw from glass rods melted before a blow-pipe the finest threads, which are put into a loom and woven into glass fabric. A large variety of articles are made from this fabric, such as dresses, napkins, bonnets and most beautiful lamp shades.

The visitor will greatly admire the immense crystal display rooms, where can be seen the highest standard of American Cut Glassware; entire new and novel articles, which glitter and shine like diamonds.

This immense building can comfortably accommodate 5,000 people at one time. The ventilation is perfect, making it agreeable for visitors. No one should fail to visit this, one of the most interesting and instructive exhibits at the Fair. This building is located in the Midway Plaisance, adjoining the Illinois Central Railroad on the west.

THERE IS NO CHARGE FOR ADMISSION TO THIS BUILDING.
The First National Bank, Chicago.
CORNER MONROE AND DEARBORN STREETS.

CAPITAL, $3,000,000.00
SURPLUS, $3,000,000.00

Statement of Condition, January 1, 1893.

ASSETS.

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<th>Description</th>
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LIABILITIES.

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<td></td>
<td>$32,305,215.50</td>
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</table>

A REGULAR BANKING BUSINESS TRANSACTED.

FOREIGN EXCHANGE. ALL CLASSES INVESTMENT BONDS BOUGHT AND SOLD.

CIRCULAR LETTERS OF CREDIT FOR TRAVELERS' USE ISSUED, AVAILABLE IN ANY PART OF THE WORLD.

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JAS. B. FORGAN.
The Department of Manufactures occupies all of the ground floor of the building, except
The Manufactures department also occupies Sections F and G on the gallery floor. The main
blocks numbered from 1 to 4, except Sections A, I, H and Q, which have three blocks. By G
are installed by classified groups, collectively, and the location of each group is indicated un
installed in Section N, Block 1. All silk goods, classified as Group 100, are in Section O, Blc
on I, in the southeast corner, which is occupied by the Department of Liberal Arts, divided into sixteen sections, lettered from A. to Q, and each section is divided into four divisions of the ground plan these floor divisions can be located. The exhibits in manufactures group head. For example, all the exhibits of jewelry, embraced in Group 98, are in the location of the foreign countries is indicated under their entries.
CLASSIFICATION.

MANUFACTURES DEPARTMENT (II).

GROUP 87.

CHEMICAL AND PHARMACEUTICAL PRODUCTS.—DRUGGISTS' SUPPLIES.

Class 543. Organic and mineral acids.
Class 544. The alkali metals and the alkali earths.—Potash, soda, ammonia, caustic soda, carbonate of soda, lime, magnesia, barytes, etc., with their salts and compounds. Bleaching powders, etc.
Class 545. Metallic oxides and salts of the metals, and other commercial chemical compounds.
Class 546. Pure chemicals for chemists' use.
Class 547. Drugs and pharmaceutical preparations and compounds.
Class 548. Chemists' and druggists' wares and supplies.
Class 549. Flavoring extracts, essences, essential oils, toilet soap, perfumery, pomades, cosmetics, etc.
Class 550. Explosive and fulminating compounds.—Powder, giant powder, etc., shown only by empty cases and packages, "dummy packages," and cartridges, to illustrate the commercial forms.
Class 551. Pyrotechnics. (In harmless forms, not charged.) Pyrotechnic displays.

GROUP 88.

PAINTS, COLORS, DYES AND VARNISHES.

(See also Group 48.)

Class 552. Colors and pigments—natural and artificial, dry and ground in oil. Printing inks, writing inks, blacking, cochineal, etc.
Class 553. White lead and white zinc industry.
Class 554. Painters and glaziers' supplies.
Class 555. Artists' colors and artists' materials.

GROUP 89.

TYPEWRITERS, PAPER, BLANK BOOKS, STATIONERY.

Class 556. Paper, pulp, and paper stock.
Class 557. Cardboard, cards, pasteboard, binders-board, building-boards, and felts for walls and roofing; for floors, ceilings, and for decorations; embossed-boards, etc. Papier mache, useful articles made from paper.
Class 558. Wrapping papers, manila paper, paper bags, tissue papers.
Class 559. Printing paper for books and for newspapers.
Class 560. Writing papers, bond paper, drawing papers, tracing papers and tracing linen; envelopes; blotting paper.
Class 561. Blank books; sets of account books, specimens of ruling and binding, including blanks, bill-heads, etc.; book-binding.
Class 562. Ornamental and decorated paper; marbleized papers, etc.
Class 563. Wall papers, oil papers.
Class 564. Typewriters, stationery, and stationers' goods; ink-stands, weights, rulers, pens, pencils, filing-cases, letter presses, etc.

GROUP 90.

FURNITURE OF INTERIORS, UPHOLSTERY, AND ARTISTIC DECORATION.

Class 565. Chairs of all grades, rockers, lounges, settles, etc.
Class 566. Tables for various purposes—Billiard, card, dining, etc.
Class 567. Suites of furniture for the hall, parlor, drawing-room, library, dining-room, and for the bed-chamber.
Class 568. Upholstery for windows, doors; curtains, portieres, etc.
Class 569. Mirrors and their mountings.
Class 570. Treatment of porches, doorways, halls, and staircases, mantels, etc.
Class 571. Floors, ceilings, walls, doors, and windows.
Class 572. Artistic furnishing, illustrated by completely furnished apartments, with selections of furniture and various objects of adornment from other groups.
Class 573. Sewing and embroidering. (See also Group 72.)

GROUP 91.—CERAMICS AND MOSAICS.

FOR CLAYS AND OTHER MATERIALS. SEE GROUP 46.

Class 574. Bricks and terra cotta for building purposes, plain and enameled. Terra cotta ware for decorative purposes. Reproductions of ancient Roman and Grecian red ware.
THE OFFICIAL DIRECTORY

Class 575. Stoneware and pottery, lead-glazed and salt-glazed ware, Doulton ware.
Class 576. Earthenware, stone, china, and semi-porcelain ware, faience, etc., with soft glazes, and with high-fire, feld-sparthic glazes and enamels.
Class 577. Porcelain with white or colored body, painted, incised or pate-sur-pate decoration.
Class 578. Tiles. Plain, encaustic and decorated tiles, bosses, tesselae, etc., for pavements, mural and mantel decoration, etc.
Class 579. Mural decoration; reredos and panels; borders for fireplaces and mantels.
Class 580. Designs for and examples of pavements in tiles and mosaics.

GROUP 92.

MARBLE, STONE AND METAL MONUMENTS, MAUSOLEUMS, MANTELS, ETC.—CASKETS, COFFINS AND UNDERTAKERS' FURNISHING GOODS.

Class 581. Marble, stone and metal monuments, and mausoleums and fittings.
Class 582. Marble and stone fountains, balustrades and miscellaneous ornaments.
Class 583. Marble, stone and metal mantels and ornaments.
Class 584. Coffins, caskets and undertakers' furnishing goods.

GROUP 93.

ART METAL WORK—ENAMELS, ETC.

Class 585. Art metal work; selected examples of iron forgings, bronzes, bas-reliefs, respousse and chiseled work.
Class 586. Cloisonné enamels
Class 587. Champ lévé enamels.
Class 588. Niello work.

GROUP 94.

GLASS AND GLASSWARE.

Class 589. Plate glass in the rough, as cast and rolled, and as ground and polished.
Class 590. Blown glass, ordinary window glass, bottles, tubes, pipes, etc.
Class 591. Pressed glass and glassware generally for the table and various purposes; skylights, insulators, etc.
Class 592. Cut-glass ware for the table and various purposes. Engraved and etched glass.
Class 593. Fancy glassware—plain, iridescent, opalescent, colored, enameled, painted beaded, gilded, etc. Millefiori and aventurine glass.
Class 594. Cracked glass in layers, onyx glass, sculptured glass; reproductions of ancient glassware.
Class 595. Glass mosaics, beads, spun glass, and glass fabrics.

GROUP 95.

STAINED GLASS IN DECORATION.

Class 596. Civic and domestic stained glass work, panels, windows, etc.
Class 597. Ecclesiastical stained glass work.

GROUP 96.

CARVINGS IN VARIOUS MATERIALS.

Class 598. Wood carving.
Class 599. Ivory carving.
Class 600. Bamboo incised work.
Class 601. Metal carving and chiseling.
Class 602. Sculptured and engraved glass.
Class 603. Sculpturing, carving, and modeling in porcelain. Paste-sur-pate.

GROUP 97.

GOLD AND SILVERWARE, PLATE, ETC.

Class 604. Gold and silverware, gilt ware for the table and for decoration.
Class 605. Silver table ware generally.—Plates, salvers, tureens, bowls, dishes, baskets, candleabra, cypresses, etc.
Class 606. Knives, forks and spoons.
Class 607. Fancy bonbon and other spoons; miscellaneous fancy articles in silver.—Snuff-boxes, match-boxes, cane-heads, handles, chatelains, etc.
Class 608. Ware of mixed metals.—Mokume ware, inlaid and incrusted ware, enameled and niello work.
Class 609. Plated ware on hard or nickel silver foundation.
Class 611. Plated ware on soft metal alloys.
GROUP 98.
JEWELRY AND ORNAMENTS.
Class 612. Gold ornaments for the person, plain, chased, or otherwise wrought or enameled, rings, bracelets, necklaces, chains, etc.
Class 613. Diamonds and various colored gems, as rubies, sapphires, emeralds, chrysoberyls, tourmalines, topazes, etc., mounted in various ornaments.
(For gems in the rough and unmounted in part, see Department E.)
Class 614. Agates, onyx, jasper, ornaments for the person.
Class 615. Pastes and imitations of precious stones, mounted or unmounted.
Class 616. Gold-covered and gilt jewelry and ornaments.

GROUP 99.
HOROLOGY—WATCHES, CLOCKS, ETC.
(See also Group 151.)
Class 617. Watches of all kinds.
Class 618. Watch movements and parts of watches.
Class 619. Watch-cases.
Class 620. Watch-makers’ tools and machinery in part. (For machines requiring power, see Department F.)
Class 621. Clocks of all kinds.
Class 622. Clock movements.
Class 623. Clock-making machinery.
Class 624. Watchmen’s time registers.

GROUP 100.
SILK AND SILK FABRICS.
Class 625. Raw silk as reeled from the cocoon; thrown or twisted silks in the gum; organzine, tram, spun-silk yarn.
Class 626. Thrown or twisted silks, boiled off or dyed, in hanks, skeins or on spools; machine twist and sewing-silk.
Class 627. Spun-silk yarns and fabrics and the materials from which they are made.
Class 628. Plain woven silks, lute-strings, sarsnets, satins, serges, foulards, tissues for hat and millinery purposes, etc.
Class 629. Figured-silk piece goods, woven or printed. Upholstery silks, etc.
Class 630. Crapes, velvets, gauzes, cravats, handkerchiefs, hosiery, knit goods, laces, scarfs, ties, veils; all descriptions of cut and made-up silks.
Class 631. Ribbons—plain, fancy and velvet.
Class 632. Bindings, braidis, cords, galloons, ladies’ dress trimmings, upholsterers’, tailors’, military and miscellaneous trimmings.

GROUP 101.
FABRICS OF JUTE, RAMIE AND OTHER VEGETABLE AND MINERAL FIBRES.
Class 633. Jute cloth and fabrics, plain and decorated.
Class 634. Ramie and other fabrics.
Class 635. Mats and coarse fabrics of grass, rattan, cocoanut and bark; matting, Chinese, Japanese, palm-leaf, grass and rushes; floor cloths of rattan and cocoa-nut fibre, aloe fibre, etc.
Class 636. Floor oil-cloths, and other painted and enameled tissues, and imitations of leather with a woven base.
Class 637. Woven fabrics of mineral origin—fine wire-cloths, sieve-cloth, wire screen, bolting cloth. (See also Group 117.) Asbestos fibre, spun and woven, with the clothing manufactured from it. Glass thread, floss and fabrics. (See also Class 595.)

GROUP 102.
YARNS AND WOVEN GOODS OF COTTON, LINEN AND OTHER VEGETABLE FIBRES.
Class 638. Cotton fabrics.—Yarns, twines, sewing-cotton, tapes, webbings, battings, waddings, plain cloths for printing and converting; print cloths, brown and bleached sheetings or shirtings, drills, twills, sateens, gingham; cotton flannels, fine and fancy woven fabrics, duck, ticks, denims, stripes, bags, and bagging. Upholstery goods.
Class 639. Linen fabrics.—Linen thread, cloths and drills, plain and mixed; napkins, tablecloths, sheetings, shirtings, etc.; cambrics, handkerchiefs, and other manufactures of linen.
GROUP 103.

WOVEN AND FELTED GOODS OF WOOL AND MIXTURES OF WOOL.
Class 640. Woolen and worsted fabrics—woolen yarns, union or merino worsted tops, noils and
yarns, shoddy and mungo.
Class 641. Woolen goods.—All wool woolen cloths, doe-skins, cassimeres, indigo flannels and
broadcloth, overcoatings, cloakings and kerseys, flannels, dress goods, etc., for
both men and women.
Class 642. Blankets, robes, traveling rugs, horse blankets, shawls, bunting, etc.
Class 643. Worsted goods.—Coatings, serges, suitings, cashmeres, etc.
Class 644. Cotton and woolen-mixed woolen goods.—Unions, tweeds, cheviots, flannels, linseys,
blankets, etc.
Class 645. Woven on cotton warps.
Class 646. Upholstery goods.
Class 647. Sundries and small wares, webbings and gorings, bindings, beltings, braids, galloons,
fringes and gimps, cords and tassels, and all elastic fabrics, dress trimmings,
embroideries, etc.
Class 648. Felt goods, felt cloths, trimming and lining felt, felt skirts and skirtings, table and
and piano covers, felts for ladies’ hats, saddle’ felts, druggists, and endless belts for
printing machines, rubber shoe-linings and other foot wear, hair feltings.
Class 649. Carpets and rags, ingrains (two-ply and three-ply) and art carpets, tapestry and
body Brussels, tapestry velvet, Wilton or Wilton velvet. Axminster, tapestry
Wilton, Moquette, Ingrain and Smyrna rugs, other woolen rugs, rag carpets.
Class 650. Wool of every description.
Class 651. Fabrics of hair, alpaca, goat’s hair, camel’s hair, etc., not otherwise enumerated.

GROUP 104.

CLOTHING AND COSTUMES.
Class 652. Ready-made clothing—Men’s and boys’.
Class 653. Dresses, gowns, habits, costumes.
Class 654. Hats and caps.
Class 655. Bonnets and millinery.
Class 656. Boots and shoes.
Class 657. Knit goods and hosiery, woven gloves, gloves of leather and skins.
Class 658. Shirts, collars, cuffs, cravats, suspenders, braces, and appliances.
Class 659. Sewing machines for domestic purposes.

GROUP 105.

FURS AND FUR CLOTHING.
Class 660. Furs and skins, dressed and tanned. Of the cat tribe, of the wolf tribe, of the
weasel tribe, of the bear tribe, of the seal tribe. Fur seals—Alaska, Oregon, South
Georgia, Shetland and Siberia, undressed, plucked and dyed. Hair seals—
Greenland and Labrador seals, spotted seals, silver seals, harp seals, saddle-back.
Furs of rodent animals—squirrels, chinchilla, beaver, hares, rabbits, and other
fur-bearing animals. Birds’ skins treated as furs. Swans and swan’s down.
Skins. Goose and goose down used as swan’s down. Grebe, eider-down, and pen-
guin.
Class 661. Fur mats and carriage or sleigh robes.
Class 662. Fur clothing.
Class 663. Fur trimmings.

GROUP 106.

LACES, EMBROIDERIES, TRIMMINGS, ARTIFICIAL FLOWERS, FANS, ETC.
Class 664. Laces of Linen and cotton, of silk, wool or mohair, made with the needle or the
loom; silver and gold lace.
Class 665. Embroideries, crochet-work, etc.; needle-work.
Class 666. Artificial flowers for trimming and for decoration of apartments.
Class 667. Fans.
Class 668. Trimmings in variety, not otherwise classed. Buttons, hooks and eyes, pins and
needles.
Class 669. Art embroidery and needlework.
Class 670. Tapestries, handmade.
Class 671. Tapestries, machine work.

GROUP 107.

HAIRWORK, COIFFURES AND ACCESSORIES OF THE TOILET.
Class 672. Hairwork, as souvenirs and ornaments.
Class 673. Coiffures, wigs, switches, etc.
Class 674. Barbers’ and hairdressers’ tools and appliances.
Class 675. Combs, brushes. (See also class 549.)
WORLD'S COLUMBIAN EXPOSITION.

GROUP 108.

TRAVELING EQUIPMENTS—VALISES, TRUNKS, TOILET CASES, FANCY LEATHER WORK, CANES, UMBRELLAS, PARASOLS, ETC.

Class 676. Tents, shelters, and apparatus for camping, camp stools, etc., hampers, baskets, etc.
Class 677. Shawl and rug straps and pouches, gun cases.
Class 678. Valises of various materials, dress-suit cases, satchels, handbags, etc.; toilet articles.
Class 679. Trunks of leather, paper, canvas and of wood and metal.
Class 680. Fancy bags, pouches, purses, card cases, portfolios, pocket-books, cigar cases, smoking pipes, cigar-holders, etc.
Class 681. Canes.
Class 682. Umbrellas and parasols.

GROUP 109.

RUBBER GOODS, CAOUTCHOUC, GUTTA PERCHA, CELLULOID AND ZYLONITE.

Class 683. Clothing; mackintoshes, capes, coats, boots, shoes, hats, etc.
Class 684. Piano and table covers, horse covers, carriage cloth.
Class 685. Stationers' articles.
Class 686. Druggists' articles, toilet articles.
Class 687. Medical and surgical instruments. (See also Group 148.)
Class 688. House-furnishing articles, mats, cushions.
Class 689. Hose, tubes, belting, packing.
Class 690. Insulating compounds.
Class 691. Toys of rubber.
Class 692. Gutta percha fabrics.

GROUP 110.

TOYS AND FANCY ARTICLES.

Class 693. Automatic and other toys and games for the amusement and instruction of children.
Class 694. Bonbons, fancy boxes and packages for confectionery.
Class 695. Miscellaneous fancy articles not especially classed.

GROUP 111.

LEATHER AND MANUFACTURES OF LEATHER.

Class 696. Hides and skins.
Class 697. Tanned leathers; belting, grain and harness leather; sole leather; calf, kip and goat skins; sheep skins.
Class 698. Curried leathers.
Class 699. Patent and enamelled leathers; morocco.
Class 700. Alligator, porpoise, walrus and kangaroo leather.
Class 701. Russia leathers.
Class 702. Oil leathers, wash leather, and all other varieties of leather not before named.
Class 703. Parchment for commissions, patents, deeds, diplomas, etc. Vellum for similar purposes, and for books and book-binding; for drums and tambourines; for gold-beaters' use, etc.
Class 704. Leather belting.
Class 705. Embossed leather for furniture, wall decoration, etc.
(For trunks, see Class 679. For harness, saddlery, etc., see Class 523.)

GROUP 112.

SCALES, WEIGHTS AND MEASURES.

(See also Group 151.)

Class 706. Scales for commercial use in weighing groceries, produce and merchandise. Counter scales, etc.; portable platform scales.
Class 707. Scales for weighing heavy and bulky objects, as hay, ice, ores, coal, railway cars, etc.
Class 708. Druggists' and prescription scales.
Class 709. Bullion scales. Assayers' and chemists' scales. (See also Group 408.)
Class 710. Postal balances.
Class 711. Gas and water meters.
Class 712. Commercial weights and sets of weights—avoirdupois, troy and apothecaries', with the weights of the metric system.
Class 713. Commercial examples of the measures of capacity, for solids and fluids—measuring glasses for the kitchen and for the laboratory.
GROUP 113

MATERIAL OF WAR; ORDNANCE AND AMMUNITION. WEAPONS AND APPARATUS OF HUNTING, TRAPPING, ETC.; MILITARY AND SPORTING SMALL ARMS.

Class 714. Military small-arms, rifles, pistols and magazine-guns, with their ammunition.
Class 715. Light artillery, compound guns, machine guns, mitrailleuses, etc.
Class 716. Heavy ordnance and its accessories.
Class 717. Knives, swords, spears and dirks.
Class 718. Fire-arms used for sporting and hunting; also other implements for same purpose. (See also Group 161.)

GROUP 114.

LIGHTING APPARATUS AND APPLIANCES.

Class 719. Lamps for burning petroleum, burners, chimneys, shades, table lamps, hanging lamps.
Class 720. Lanterns, coach lamps, street and special lights and lanterns.
Class 721. Illuminating gas; fixtures, burners and chandeliers.
Class 722. Electroliers and electric lamps.
Class 723. The "Lucigen" and similar lighting apparatus.

GROUP 115.

HEATING AND COOKING APPARATUS AND APPLIANCES.

Class 724. Fire-places, grates, and appurtenances for burning wood, coal or gas.
Class 725. Hot-air heating furnaces.
Class 726. Steam heaters, hot-water heaters, radiators, etc.
Class 727. Stoves for cooking, cooking stoves, kitchen ranges, grills, roasting jacks, ovens, etc. Stove polish.
Class 728. Gas burners for heating, gas logs, gas stoves, etc.
Class 729. Petroleum stoves.
Class 730. Kitchen utensils and other miscellaneous articles for household purposes.

GROUP 116.

REFRIGERATORS, HOLLOW METAL WARE, TINWARE, ENAMELED WARE.

Class 731. Refrigerators. Soda and aerated water fountains and appliances.
Class 732. Cast hollow-ware—kettles, pots, etc.
Class 733. Hollow-ware of copper, nickel, tin-plate and iron; bells.
Class 734. Enameled ware, granite ware and porcelain-lined ware. Enameled letters and signs.

GROUP 117.

WIRE GOODS AND SCREENS, PERFORATED SHEETS, LATTICE WORK, FENCING, ETC.

(See also Group 63.)

Class 735. Wire-cloth of brass or of annealed iron and steel.
Class 736. Wire-cloth of special alloys, as aluminum-bronze wire, etc.
Class 737. Sieves of various grades and materials.
Class 738. Screens for special purposes.
Class 739. Perforated metal plates.
Class 740. Artistic lattice work.
Class 741. Wire netting.
Class 742. Wire fencing. (For trellis work for gardens and flowers, see also Group 26.)

GROUP 118.

WROUGHT-IRON AND THIN METAL EXHIBITS.

Class 743. Wrought-iron gates, railings, crestings and artistic forgings, not otherwise specifically classed. (See also Department K.)
Class 744. Repousse, hammered and stamped metal ornaments used for buildings, bridges and other structures.
Class 745. Beams, girders, columns, angle-irons, etc.
Class 746. Horse-shoes and crude forgings.

GROUP 119.

VAULTS, SAFES, HARDWARE, EDGE TOOLS, CUTLERY.

Class 747. Builder's hardware. Locks, latches, spikes, nails, screws; tacks, bolts, hinges, pulleys; furniture fittings; ship's hardware and fittings.
Class 748. Axes, hatchets, adzes, etc.
Class 749. Edge tools of various descriptions.
Class 750. Saws, files.
Class 751. Cutlery—knives, scissors, shears, razors, etc.; table cutlery.
Class 752. Vaults, safes and appliances; machinists' and metal workers' tools.
GROUP 120.

PLUMBING AND SANITARY MATERIALS.

Class 753. Bath tubs, bathing appliances and attachments.
Class 754. Water closets, syphons, flushing tanks; apparatus and receptacles for ventilation and sewerage.
Class 755. Porcelain laundry tubs, basins, cocks, drains and other appliances.
Class 756. Plumbers' and gas fitters' hardware and miscellaneous appliances.

GROUP 121.

MISCELLANEOUS ARTICLES OF MANUFACTURE NOT HERETOFORE CLASSED.
Otis Brothers & Co's. Offices.

ATLANTA. NEW YORK CITY.
BOSTON. PHILADELPHIA.
BUFFALO. PITTSBURGH.
HELENA. SALT LAKE CITY.
LOS-ANGELES. SAN FRANCISCO.
MONTREAL. TORONTO, ONT.
MEXICO CITY. WASHINGTON, D.C.

Hale Elevator Co.

(Erecting Otis Elevators.)

CHICAGO. MINNEAPOLIS.
DETROIT. NEW ORLEANS.
KANSAS CITY. ST. LOUIS.

Otis Elevator Co., Ltd.

AMSTERDAM. LIVERPOOL.
BERLIN. LONDON.
BIRMINGHAM. MADRID.
BRUSSELS. MANCHESTER.
GENEVA. PARIS.
GLASGOW. ROME.
LISBON. STOCKHOLM.
ZURICH.

Austral-Otis Elevator Co.

ADELAIDE.
BRISBANE.
MELBOURNE.
NEW ZEALAND.
SYDNEY.

WASHINGTON MONUMENT, ONE OTIS ELEVATOR.

EIFFEL TOWER, PARIS, TWO OTIS ELEVATORS.

OTIS BROTHERS & CO.,
General Offices, 36 and 38 Park Row, New York.

(The Largest Elevator Works in the World.)

Elevators operated by Hydraulic, Steam, Electric, or Belt Power.

Also, Builders of the Otis Electric Pump, self-regulating. Can be attached to any electric light line.
Department H.—Manufactures.

**UNITED STATES**

**GROUP 87.**
Chemical and Pharmaceutical Products
—Druggists' Supplies.

Exhibits in this group are installed in section Q, block 1, north.

5. Bower, Henry, & Son, Philadelphia. Chemical alkalies. 544
8. Cobb, Mary E. Manicure goods and toilet preparations. 548
   a Medicinal preparations. 547
   b Soaps; toilet preparations, etc. 549
   a Drugs and chemicals. 547
   b Essential oils. 549
15. Hotchkiss, H. G., Sons, Lyons, N. Y. Essential oils. 549
16. India Alkali Works, Boston. Alkalies and alkaline earths. 544
   a Chemical preparations. 546
   b Pharmaceutical and technical preparations. 547
21. Lorenz, George, Toledo, Ohio. Perfumery and toilet articles. 549
22. Low's, Robert, Son, Brooklyn, N. Y. Toilet soap and perfumeries. 549
23. Marx & Rawolle, New York. Glycerine. 547
25. Moulie, E., Jacksonville, Fla. Perfumery and raw materials. 549
26. Morgan, Enoch, Sons, Chicago. Scouring soap. 549
27. Osterhout, Mrs. E. A., Chicago. Toilet soap. 549
31. Preston, Andrew P., Portsmouth, N. H. Pharmaceutical specialties and toilet preparations. 549
32. Putnam Manufacturing Company, St. Louis. Toilet preparations. 549
33. Remmey, Richard C., Philadelphia. Chemical stoneware. 548
34. Rickseecker, Theo., New York. Perfumery and toilet goods. 549
35. Rosengarten & Sons, Philadelphia. Chemicals. 546
   a Chemicals. 546
   b Drugs. 547
   c Essential oils. 549
38. Zehrer Company, Chicago. Perfumes and toilet goods. 549

**GROUP 88.**
Paints, Colors, Dyes and Varnishes.

Exhibits in this group are installed in Sec. G, Block 2, north, and Sec. H, Block 1, south.

39. Arnstein, Eugene, Chicago. Bronze powder, paints, brushes, etc. G-2-No. 555
40. Berry Bros., Ltd., Chicago. Varnishes. H-1-So. 562
41. Bridgeport Wood Finishing Company, New Milford, Conn. Paints, fillers, stains and polishes. H-1-So. 552
44. Chicago Varnish Company, Chicago. Varnish and fossil gums. H-1-So. 552
46. Dexter Bros., Boston. Shingle stain. H-1-So. 552
47. Dunham, G. D., Chicago. Glaziers' diamonds. G-2-No. 554
49. Gertz, Lumbar & Co., Chicago. Paint brushes, etc. G-2-No. 554
50. Hall, Fannie E., New York. Ceramic colors. 553
52. Hebblewhite Manufacturing Company, Buffalo, N. Y. Stove polish. 552
56. Masury, John W., & Son, Chicago. a Varnishes, jans and stains H-1-So. 552 b. White leads. 553 c. Artis's colors. 555
57. O'Brien Varnish Company, South Bend, Ind. Oils, varnishes and lacquers. G-2-No. 552
For exhibit see page 58b.
58. Rinald Bros., Philadelphia. Paints applied to a wooden windmill. H-1-So. 552
60. Scientific Art & Decorative Co., New York. Decorative paint. 554
62. Thomas, L. H., Company, Chicago. Inks; mucilage; bluing. G-2-No. 552
64. Valentine & Co., Chicago. Varnishes, colors and material. H-1-So. 552

GROUP 8.
Typewriters, Paper, Blank Books, Stationery.

Exhibits in this group are included in
Sec. N, Block 3, and Gallery, Sec. F.

72. Auto-typograph Co., Chicago. An instrument for copying handwriting and typewriting. 564
74. Blickensderfer Mfg Co., New York. Typewriters 564
75. Bliss Typewriter Co., Rochester, N. Y. Typewriter
83. Crosby Paper Co., Marion, Ind. Strawboard. 557
86. Cyclostyle Company, New York. Dupicators, stands and cabinets. 564
89. Denver Paper Mills, Denver, Col. Paper. 556
93. Essex Typewriter, New York. Typewriters. 564
95. Foley, John, New York. Pens, pencils, penholders, etc. Gal. F 564
98. Haines, Mrs. Jessie, Greeley, Col. Decorated card. 562
101. Hunt, E. C., Glen Cove, N. Y. Marking material, letter heads. 564
107. Mills, Knight & Co., Boston. Fancy leather work. 561
108. Munson Typewriter Co., Chicago. Typewriters. 564

For exhibit see page 1035.

111. Olmert's, M., Sons Company, Dayton, Ohio. Filing document cases, etc. Gal. F 564
112. Parker, Anna M., Albany, N. Y. Perforating machine. 564
114. Pearce, F. T., & Co., Providence, R. I. Gold pens, pencils, penholders, etc. 564
116. Pomeroy Bros., Newark, N. J. Writing inks, mastic, sealing wax, etc. 564
117. Rockwell & Rupel Co., Chicago. Copy presses, typewriter supplies. 564
119. Rubel Bros., Chicago. Account books and system of accounting. 561
123. Shepard, Henry O., Co., Chicago. Blank books, cards, printed books, etc. 561
129. Wells Manufacturing Company, Syracuse, N. Y. Letter files, indexed books, racks, etc. Gal. F 564

For exhibit see page 356.


GROUP 90.

Furniture of Interiors, Upholstery and Artistic Decorations.

Exhibits in this group are installed in Sec. N, Block 2, Sec. O, Block 2, Sec. P, Block 2, and Sec. 2, Block 1, south.

137. Abernethy, Wm. J., Minneapolis, Minn. Window shades. Dept. L 568
139. American Saloon Fixture Company, Chicago. Saloon furniture. Q-1-So. 566
141. Armstrong Furniture Company, Evansville, Ind. Tables. Q-1-So. 566
143. Boughton, John W., Philadelphia. Parquet floors, fret and grill work. Q-1-So. 571
144. Brunswick, Balke, Collender Company, Chicago. Furniture for club, bil-liard and bar rooms. O-1-So. 572
146. Buxbaum, Leopold, Chicago. Restaurant table. O-2-So. 566
148. Child, Geo. F., Chair Co., Chicago. Adjustable chairs. 565
149. Cincinnati Furniture Exhibit, Cincinnati, O. House and office furniture. 567
151. Dean & Co., Chicago. Bamboo furniture. 567
152. Demme & Dierkes Furniture Co., Chicago Chamber suits. Q-1-So. 567
155. Drake Company, St. Paul, Minn. Petrified wood bric-a-brac. 572
156. Ehman & Simon Manufacturing Co.,
Chicago. Wood mantels and interior
finishing. For exhibit see page 351.

157. Garden City Billiard Table Company,
Chicago. Billiard tables, cues, balls, etc.
P-2-So. 566

158. Gendron Iron Wheel Company,
Toledo, Ohio. Reed furniture and bam-
boo novelties. Q-1-So. 555

159. Goshen Furniture Co., Goshen, Ind.
Extension tables. O-2 566

160. Hall & Garrison, Philadelphia. Art
furniture, mirror and picture frames.
Q-1-So. 569

Chamber suites. O-2 567

162. Herts Brothers, New York. Furni-
ture decorations and draperies. N-2 572

163. Horn Bros. Manufacturing Company,
Chicago. Chamber suites, sideboards,
and chiffoniers. O-2 567

164. Horning Manufacturing Company,
Chicago. Corner shop fittings. P-2 572

165. Hunzinger, Geo., & Son, New York.
Chairs, sofas and tables. Q-1-So. 565

166. Indianapolis Furniture Exhibit, In-
dianapolis, Ind. Furniture. 567

167. Indianapolis Unified Furniture Ex-
hibit, Indianapolis. Furniture. 567

168. Interior Hardwood Company, Indian-
apolis, Ind. Ornamental hardwood par-
quetry. P-2 571

169. Jansen, Ed., New York. Reed and
rattan furniture, etc. N-2 572

170. Kane, Thos., & Co., Chicago. Post-
office furniture. P-2 572

171. Karpen, S., & Bros., Chicago. Par-
lor furniture. O-2 567

172. Kinnear & Gager Co., Columbus, O.
Ceiling and wainscoting. Q-1-So. 561

ican onyx and other marble and bronze
ornaments. N-2 572

174. Klemm, Smith & Co., Chicago. Pic-
ture frames, moldings, looking glasses,
etc. Dept. I. 569

supplies. P-2 572

176. Koenig & Gamer Furniture Co., Chi-
cago. Chamber suites, chiffoniers and
crubs. Q-1-So. 567

177. Ledig, R. G., Philadelphia. Onyx and
brass furniture and woodwork. N-2 566

178. Marks Adjustable Folding Chair Com-
pany, Chicago. Folding chairs. P-2 565

179. Meriden Curtain Fixture Co., Meri-
den, Conn. Window shade fixtures. 568

180. Metropolitan Air Goods Company,
Boston. Air mantles, cushions and life-
saving goods. Q-1-So. 565

181. Midland Desk Manufacturing Com-
pany, Chicago. Office desks. P-2 566

182. Munson Typewriter Company, Chi-
cago. Typewriters. 564

183. New Haven Chair Company, New
Haven, Conn. Chairs. P-2 565

Spring shade roller.

Desks and combination bed. O-2 566

186. Oriel Cabinet Company, Grand Rap-
ids, Mich. Fancy furniture. Q-1-So. 566

187. Passow, Chas., & Sons, Chicago. Bar
and billiard-room fixtures, etc. Q-1-So. 572

Desks. Q-1-So. 566

189. Philadelphia Typewriter Company,
Philadelphia. Typewriters. 564

Sofas and bed lounges. Q-1-So. 565

191. Pomeroy Bros., Newark, N. J. Writ-
ing inks, mucilage, sealing wax, etc. 564

192. Richter, August F., Chicago. Mir-
rors, picture frames and moldings.
O-2 569

193. Reuhl Molding Manufacturing Com-
pany, Cincinnati, Ohio. Picture frames
and picture frame moldings. 569

194. Rockford Furniture Exchange, Rock-
ford, Ill. Furniture. 567

195. Rothchild’s, R., Sons Co., Cincinnati,
Ohio. Bar-room equipments. 572

Folding beds. O-2 567

197. Schlesinger, Wiessner & Co., South
Brooklyn, N. Y. Metallic beds, steel
furniture, etc. N-2 565

Roll top desks. P-2 572

199. Schwartz, L., & Co., Buffalo, N. Y.
Hardwood mantels. Q-1-So. 570

200. Sheboygan Chair Company, Shebyo-
ogan, Wis. Chairs. P-2 565

Office and store furniture. O-1-So. 566

202. Stewart Hartshorn Company, Chi-
icago. Self-acting shade rollers. 568

203. Sypher & Co., New York. Tapestries,
sovenirs of Emperor Napoleon I, etc. 572

204. Wemple, Jay C., Co., Chicago. Wind-
ow shades and shade rollers. 568

205. Wenter, F., & Co., Chicago. Hat-
racks, china closets and cabinets. O-2 566

206. Whitcomb Metallic Bedstead Com-
pany, Birmingham, Conn. Brass and iron
beds and mattresses. N-2 565

207. Windsor Folding Bed Company,
Chicago. Folding beds, tables, chairs,
etc. P-2 565

GROUP 91.

Ceramics and Mosaics.

Exhibits in this group are installed in
Sec. H., Block 1, north, with one exception,
which is noted opposite exhibitor’s name.

China decorations. 577

209. Bushnell, Mrs. Geo., Denver, Col.
Decorated china. 577

210. Brown, Miss Jennie, Denver, Col.
Decorated china. 577

China brick-a-brac, statuary, etc. 576

211. Case, Mrs. Nettie, Denver, Col. Deco-
rated china. 577

212. Case, Mrs. W., Denver, Col. Deco-
rated china. 577

213. Central Press Brick Company, Cleve-
land, Ohio. Pressed brick. 574

214. Cincinnati Ceramic Art Club, Cincin-
nati, O. China decorations. 577
GROUP 92.
Marble, Stone and Metal Monuments, Mausoleums, etc. Caskets, Coffins and Undertakers’ Furnishing Goods.

Exhibits in this group are installed in Sec. H, Block 2.

250. Barre Manufacturing Company, Barre, Vt.,
a Granite monuments. 581
b Granite fountains. 582
c Granite mantels, etc. 583


252. Egyptian Chemical Company, Boston.
Embalming instruments, fluids and specialties. 584

253. Eureka Onyx Company, Indianapolis, Ind. Articles manufactured from onyx. 583

254. Granite Manufacturing Association, Quincy, Mass. Monuments, headstones, curbing, etc. 581

255. Kimes, Jesse B., Philadelphia. Slate burial vault. 581

256. National Steel Catacomb Company, Troy, N. Y. Steel catacomb for casket or coffin. 581


258. St. Lawrence Marble Company, Gouverneur, N. Y. Vault front. 581

259. Vermont Marble Company, Proctor, Vt. Rough and manufactured marble. 581

260. White, Alfred, & Sons, Cincinnati. Statues and monuments. 581

261. White, Frank G., South Chicago, Ill. Hermetic shrouds. 584

GROUP 93.
Art Metal Work—Enamels, Etc.

Exhibits in this group are installed in Sec. G, Block 3, north.


263. Monumental Bronze Company, Bridgeport, Conn. Monuments, statuary, medallions, busts, etc. 585


265. Stafford, N., New York. Medals and checks. 585

266. Van Knyck, Pauline, New York. Brass frame. 585

267. Western White Bronze Company, Des Moines, la. Monuments, statuary, busts, medallions, etc. 585

GROUP 94.
Glass and Glassware.

Exhibits in this group are installed in Sec. H, Block 1, south.

268. Diamond Plate Glass Company, Kokomo, Ind. Plate glass. 589

269. Hicks, F. M. & Co., Chicago. Floor, skylight and ornamental work in iron and glass. 591
270. Libbey Glass Co., Toledo, Ohio. Cut glassware. 592
For exhibit see page 226
273. Wire Glass Company, Philadelphia. Wire glass. 591

**GROUP 95.**

**Stained Glass in Decoration.**

Exhibits in this group are installed in Gallery, Sec. F.

275. Erkins, H., Chicago. Stained glass and glass windows. 596
276. Fianagan & Biedenweg, Chicago. Art glass. 596
277. Healey & Millett, Chicago. Stained glass. 596
278. Herndl, Miss Marie, Chicago. Stained glass window. 596
279. McCully & Miles, Chicago. Stained glass windows and interior decorations. 596
281. Rawson & Evans, Chicago. Sand blast and ornamental glass. 598
282. Reith, Wm., Philadelphia. Art stained glass. 596
283. Tillinghast, Miss, New York. Stained glass window. 596
284. Wells Glass Company, Chicago. Art stained and ornamental glass. 596

**GROUP 96.**

**Carvings in Various Materials.**

Exhibits in this group are installed in Gallery, Sec. F.

287. Bierbau, Miss, Pueblo, Col. Carved wood cabinet. 598
288. Lisscomb, Miss Lucie, Denver, Col. Carved wood chair and table. 598

**GROUP 97.**

**Gold and Silverware, Plate, etc.**

Exhibits in this group are installed in Sec. N, Block 1, south.

292. Benziger Bros., Chicago. Catholic church supplies. 604
293. Coleman, Mrs. R. J., Buena Vista, Col. Roses made of pure silver. Dept. E 607
294. Diepenbrock & Uchtman, New York. Church vestments, flags and banners. 604
296. Feeley, Wm. J., & Co., Providence, R. I. Church ornaments. 604
297. Gorham Manufacturing Company, Providence, R. I. Silver and plated ware, etc. 605
299. Emmons & Edwards Silver Co., Bridgeport, Conn. Silver plated ware. 609
300. Manhattan Silver Plate Company, Lyons, N. Y. Gold and silver-plated hollow ware. 609
301. Meriden Britannia Company, Meriden, Conn. Silver plated ware. 609
For exhibit see page 494
302. Mermod & Jaccard Jewelry Co., St. Louis, Mo. Jewels, watches, silver and plated ware, etc. 605
303. Messmer Company, Andrew, Cincinnati. Church ornaments. 604
304. Fairpoint Mt'g Co., New Bedford, Mass. Silver plated ware. 609
305. Rogers, Wm., Manufacturing Company, Hartford, Conn. Silver, gold and silver plated ware. 605
306. Rogers & Bro., Waterbury, Conn. Silver plated ware. 609
For exhibit see page 490
307. Tiffany & Co., New York. Silverware, jewelry, watches, clocks, etc. 605
308. Tufts, James W., Boston. Silver plated ware. 610
309. Whitehead & Hoag, Newark, N. J. Society goods, fancy novelties, etc. 604
310. Wymble Manufacturing Company, Newark, N. J. Silverware. 605

**GROUP 98.**

**Jewelry and Ornaments.**

Exhibits in this group are installed in Sec. N, Block 1, north.

311. Albro, Eaton & Co., Providence, R. I. Gold plate chains and charms. 616
312. Arnold & Steere, Providence, R. I. Gold ornaments and rings. 612
313. Bel & Barber, New York. Jewelry and ornaments. 612-16
315. Blackinton, W. & S., Attleboro, Mass. Gold plate, silver and fancy chains, etc. 616
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317. Camini, J. E., Saratoga Springs, N. Y. Jewelry. 612
319. Clark & Coombs, Providence, R. I. Plated rings. 616
321. Devereux, O. C., & Co., Providence, R. I. Plated link and collar buttons, silver ornaments, etc. 616
322. Fanning, J. H., Providence, R. I. Gold plated charm lockets, chains, etc. 616
GROUP 99.
Horology, Watches, Clocks, Etc.
Exhibits in this group are installed in Sec. O, Block 1, south, with one exception, which is noted opposite the exhibitor's name.

351. Ansonia Clock Company, Chicago. Clocks. 621
352. Cyclo Clock Co., New York. Year clocks. 621
353. Geneva Clock Company, Chicago. Clocks. 621
354. Keystone Watch Case Company, Philadelphia. Watch cases. 619
355. Muhr's, H., Sons, Philadelphia. Watch cases. 619
356. Non-Magnetic Watch Company, New York. a Non-magnetic watches and appliances. Dept. J 617 b Non-magnetic watch balances, hair springs, etc. 618
358. Waterbury Watch Company, Waterbury, Conn. Watches and clock. 617 For exhibit see page 841.

GROUP 100.
Silk and Silk Fabrics.
Exhibits in this group are installed in Section O, Block 1, north, with one exception, which is noted opposite exhibitor's name.

367. Anderson Bros., Paterson, N. J. Dress silks. 629
368. Arrowsmith, Charlotte, Mercer, Pa. Silk weaving. 629
369. Baum, C. F., Chicago. Dress trimmings. 632
370. Belting Bros., & Co., Chicago. a Sewing and embroidery silks. 626 b Serges, surahs and satins 628 c Dress silks. 629 d Braids. 632
373. Castle Braid Company, New York. Silk and mohair braids. 632
374. Cheney Bros., South Manchester, Conn. a Spun silk yarns and fabrics. 627 b Plain woven silks. 628 c Figured silk piece goods (Gal G). 629 d Ribbons. 631
375. Cutter, John D., & Co., New York. a Silk threads. 626 b Silk fabrics. 627

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<td>351</td>
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<td>356</td>
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<td>358</td>
<td>Waterbury Watch Company, Waterbury, Conn. Watches and clock. 617 For exhibit see page 841.</td>
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379. Empire Silk Company, New York. Silk dress goods. 629


381. Griswold Worsted Company, Philadelphia. Spun silk. 625

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384. Jennings Lace Works, New York. Laces, gloves, mitts, veils and scarfs. 630


386. Kaysor, Julius, & Co., New York. Silk underwear, gloves, mitts, etc. 630


388. McCallum Constable Hosiery Company, Holyoke, Mass. Silk hosiery. 630

389. McLaughlin Braid Company, Paterson, N. J. Braids. 632


391. Meyenberg Corporation, Hoboken, N. J. Silk fur and tie silk. 628

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394. Phoenix Silk Manufacturing Company, Paterson, N. J.  
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395. Rhenania Mills, College Point, L. I. Ribbons and silks. 631

396. Richardson Silk Company, Chicago.  
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397. Robertson, William, New York. Silk curtains and upholstery silks. 629

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   b Thrown silk. 626

399. Simon, R., & H., Union, N. J.  
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   a Serges. 628
   b Dress silks. 629
   c Linings. 630
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404. Trevor, William, New York. Cravats, handkerchiefs, ties, etc. 630

406. Wahнетah Silk Company, Catasauqua, Pa. Silk pluses. 628

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GROUP 101.

Fabrics of Jute, Ramie and Other Vegetables and Mineral Fibres.

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413. Tannette Manufacturing Company, Leather imitation for furniture etc. 636

GROUP 102.

Yarns and Woven Goods of Cotton, Linen and Other Vegetable Fibres.

Exhibits in this group are installed in Sec. O, Block 1, center.


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418. Appleton Company, Boston. Cotton flannels, dress goods, etc. 638

419. Attawangan Company, Norwich, Conn. Cotton goods. 638


421. Barnaby Manufacturing Company, Fall River, Mass. Gingham. 638

422. Berlin Print Works, Philadelphia. Cotton fabrics. 638


424. Cabot Manufacturing Company, Brunswick, Me. Cotton goods. 638


426. Conanicut Mills, Fall River, Mass. Cotton goods. 638
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427. Davoli Mills, Fall River, Mass. Cotton goods. 638
430. Farwell Mills, Lisbon, Me. Cotton goods. 638
432. Forestdale Manufacturing Company, Forestdale, R. I. Cotton goods. 638
434. Glasgow Lace Thread Company, Glasgow, Conn. Thread for fancy work. 638
436. Globe Yarn Mills, Fall River, Mass. Yarns. 638
437. Great Falls Manufacturing Company, Great Falls, N. H. Cotton goods. 638
438. Greene, S. H., & Sons, Providence, R. I. Cotton goods. 638
439. Greenville Manufacturing Company, Smithfield, R. I. Cotton goods. 638
441. Hadley Company, Boston. Cotton yarns and threads. 638
442. Hamlet Mills, Woonsocket, R. I. Cotton goods. 638
443. Jackson Company, Boston. Cotton sheetings, flannels, etc. 638
445. Knight, B. B., & R., Providence, R. I. Cotton goods. 638
447. Lancaster Mills, Boston. Gingham. 638
448. Lapham, Enos, Centreville, R. I. Cotton goods. 638
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450. Manville Company, Providence, R. I. Cotton piece goods. 538
452. Methuen Company, Boston. Fancy cotton fabrics. 638
454. Morane Mills, Putnam, Conn. Cotton goods. 638
455. Nashua Manufacturing Company, Boston. Cotton flannels, sheetings, etc. 638
458. Nightingale Mills, Putnam, Conn. Cotton goods. 638
459. Ossawan Mills Company, Norwich, Conn. Picture and shade cords. 572
460. Pacific Mills, Lawrence, Mass. Cotton fabrics. 638
461. Palmer, E. E., Middletown, Conn. Cotton fabrics. 638
462. Pemberton Company, Boston. Fancy cotton fabrics. 638
463. Ponemah Mills, Providence, R. I. Cotton goods. 638
464. Powhatan Mills, Putnam, Conn. Cotton goods. 638
465. Sanford Spinning Company, Fall River, Mass. Yarns. 638
466. Slater Cotton Company, Pawtucket, R. I. Cotton goods. 638
467. Slater, John W., Providence, R. I. Cotton goods. 638
468. Stark Mills, Manchester, N. H. Cotton goods. 638
470. Stevens Linen Works, Boston, Mass. Linen crash. 638
471. Thompson, James, & Co., Chicago. Twines, mosquito nets, buckram, and screen cloth. 638
472. Thompson, James, & Co., New York. Twines, mosquito nets, buckram, etc. 638
474. Valley Falls Company, Valley Falls, R. I. Cotton goods. 638
475. Wamsutta Mills, New Bedford, Mass. Sheetings and fine white goods. 638
478. Williamsville Manufacturing Company, Killingly, Conn. Cotton goods. 638
479. Woods, Joseph W., & Son, Boston. Cotton goods. 638

GROUP 108.

Woven and Felted Goods of Wool and Mixtures of Wool.

Exhibits in this group are installed in Sec. P, Block 1, except Classes 643, (upholstery goods) and 649 (carpets), which are installed in Gallery, Sec. F, and Class 650 (wool hats), which are installed in Gallery, Sec. G

480. Allen, L. L., & Bros., Rochester, N. Y. Flannels. 641
481. American Loop Fabric Company, Brooklyn, N. Y. Blankets, robes, rugs, etc. 642
482. American Mill Company, Rockville, Conn.
   a. Woolen goods. 641
   b. Worsted goods. 643
483. Appleton Woollen Mills, Appleton, Wis.
   a. Yarns. 640
   b. Woolen goods. 641
   c. Felt goods. 648
484. Arlington Mills, Lawrence, Mass.
   a. Yarns, roving and tops. 640
   b. Woolen dress goods. 641
   c. Worsted goods. 643
   d. Woolen goods on cotton warps. 645
DEPARTMENT H.—MANUFACTURES.

485. Atlantic Mills, Providence, R. I.
   a Worsted goods. 643
   b Woolen goods woven on cotton warps. 645

   a Yarns. 640
   b Flannels. 641

487. Baun, C. F., Chicago. Dress trimmings. 647


   a Woolen goods. 641
   b Worsted goods. 645

   a Cassimeres. 641
   b Worsted. 643

494. Bound Brook Woolen Mills, Bound Brook, N. J.
   a Cotton and woolen mixed goods. 644
   b Woolen goods woven on cotton warps. 645

495. Broad Brook Company, Broad Brook, Conn.
   a Woolen goods. 641
   b Worsted goods. 643


499. Carleton, E. G., & Sons, Rochdale, Mass. Flannels and woolen goods. 641

500. Capps, J., & Son, Jacksonville, Ill.
   a Woolen goods. 641
   b Blankets, etc. 642
   c Cotton and woolen mixed goods. 644
   d Woolen goods woven on cotton warp. 645


   a Yarn. 640
   b Woolen goods. 640
   c Worsted goods. 643

503. City Mills Company, City Mills, Mass. Felt goods. 648

504. Clinton Mills Company, Norwich, Conn.
   a Woolen goods. 641
   b Woolen goods woven on cotton warps. 645

   a Men's wear and flannels. 641
   b Worsted goods. 643

506. Cochecho Woolen M'g Company,
    East Rochester, N. H. Flannels; woolen dress goods. 641


508. Conestoga Steam Mills, Lancaster, Pa. Woolen goods woven on cotton warps. 645

509. Cranston Worsted Mills, Bristol, R. I. Yarns. 640

510. Devonshire Mills, Goff's Falls, N. H. Dress goods. 641

   a Cassimeres, cloakings, etc. 641
   b Worsted goods. 643


513. Empire Woolen Mills, Clayville, N. Y.
   a Woolen goods. 642
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   c Italian cloths. 645
   d Alpacas. 651

   a Woolen and worsted yarns. 640
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   b Worsted goods. 643
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517. French & Ward, New York. Eiderdowns, knit goods, etc. 651

518. George's River Mills, Warren, Me.
   a Dress goods. 641
   b Cheviots. 644

   Woolen goods. 641

520. Glendale Woolen Mills, Glendale, R. I. Woolen goods. 641

521. Globe Woolen Company, Utica, N.Y.
   a Woolen. 641
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522. Gonic Manufacturing Company,
    Gonic, N. H. Woolens, flannel dress goods. 641

523. Griswold Worsted Company, Ltd.,
    Darby, Pa. Worsted yarns. 640

524. Haile & Frost Manufacturing Co.,
    Hinsdale, N. H.
    a Woolen cloth and dress goods. 641
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525. Harris Woolen Company, Woonsocket, R. I. Woolen goods. 641

526. Hartley, F., Lawrence, Mass. Yarns and carbonized wool. 640

527. Hay & Todd Manufacturing Co.,
    Ypsilanti, Mich. Yarns, tops and noils. 640

528. Hecla Mills, Uxbridge, Mass. Woolen goods. 641

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585. Weybosset Mills, Providence, R. I. Woolen goods and cassimeres.  641
  a Worsted goods and cloth.  643
586. Winthrop Mills Company, Winthrop, Me. Blankets, etc.  642
  a Woolen goods.  641
  b Cotton and woolen mixed goods.  644
587. Woll, P., & Sons, Philadelphia. Curls hair, feathers, fibre and bristles.  651
  a Fancy cotton goods.  644
589. Worumbo Manufacturing Company, Lisbon Falls, Me. Woolen goods.  641
  a Woolen mixed goods.  644

GROUP 104.

Clothing and Costumes.

Exhibits in this group are installed in Gallery, Sec. G, except Class 657 exhibits, in which are in Sec. P, Block 1, shown with the woolen goods.

591. Allen, John C., Gloversville, N. Y. Gloves and mittens.  P-1  657
593. American Hosiery Company, New Britain, Conn. Knit goods, hosiery, etc.  P-1  657
594. American Knitting Mills, Philadelphia. Knit goods, hosiery, etc.  P-1  657
595. Appel, Dunseath, Co., Denver, Col. Full dress coat and waistcoat; sack suit, waist coat and trousers. M. T. ex.  652

599. Baum & Ulman, Williamsport, Pa. Suspenders.  658
601. Bell's, Henry H., Sons, Milton, N. Y. Knit goods, hosiery, etc. P-1  657
602. Benn & Becker, Amsterdam, N. Y. Knit goods, hosiery, etc. P-1  657
603. Bowers, James, & Co., Newark, N. J. Lock clasps for corsets.  658
604. Brenk Bros., Milwaukee, Wis. Satin away frock, and single breasted coat and trousers. M. T. ex.  652
606. Brooklyn Shield Company, Brooklyn, N. Y. Dress shields.  653
607. Brownell, B. H., St. Louis, Mo. Sack suit and overcoat, frock coat, duck waistcoat and English worsted trousers. M. T. ex.  652
609. Canfield Rubber Company, Bridgeport, Conn. Dress shields.  658
611. Chicago Corset Company, Chicago. Corsets and waists.  658
614. Condé, Swits, Oswego, N. Y. Knit goods. P-1  657
615. Coronet Corset Company, Jackson, Mich. Corsets and waists.  653
616. Cortland Corset Manufacturing Company. Cortland, N. Y. Corsets, waists, clasps and hose supporters.  653
617. Croft, Fred W., Chicago. Trousers, waistcoat, Frederick coat and sartor. M. T. ex.  652
618. Curtis, H. C., & Co., Troy, N. Y. Shirts, collars and cuffs.  658
619. Davis Sewing Machine Company, Dayton, Ohio. Sewing machines.  659
622. Dempster & Place, Gloversville, New York. Gloves and mittens. P-1  657
626. Earl Manufacturing Company, Chicago. Hose supporters.  658
627. Earl & Wilson, New York. Men's collars and cuffs.  658
628. Ederheimer, Stein & Co., Chicago. Clothing.  652
629. Falconer & Boynton Manufacturing Co., Portage, Wis. Underwear. 658
630. Fisk, C. M., Rochester, N. Y. Inverness coat. M. T. ex. 652
631. Fisher, Geo., & Sons, Cincinnati. Dress coat, waistcoat and trousers. 652
633. Flint, Olivia C., Coston, Mass. Corsets and waists. 653
636. French & Ward, Stoughton, Mass. Knit goods, hosiery, etc. P-1 657
637. Gage, Downs Company, Chicago. Corsets. 652
638. Glasser & Rock, Chicago. Overcoat, coat, waistcoat, dress coat and pair. 652
639. Glastonbury Knitting Company, Glastonbury, Conn. Men's knitted underwear. P-1 657
641. Graichen, Wm. C., Glove Company, Winchester, Va. Gloves and mittens. P-1 657
646. Hay & Todd Manufacturing Co., Ypsilanti, Mich. Knit goods, hosiery, etc. P-1 657
647. Heining, Frank, Chicago. Full dress suit and promenade suit and overcoat. M. T. ex. 652
650. Hollander, L. P., & Co., Boston. (a) Boys' clothing; (b) Ladies' costumes and garments, 653 (c) Millinery. 655
651. Houghland, Mrs. E. G., N. Denver, Col. Night robe. 653
657. Ivorine Collar & Cuff Co., Chicago. Collars and cuffs. 658
658. Jaeger's Dr. Sanitary Woolen System Company, New York. Knit goods, hosiery, etc. P-1 657
659. James, Mrs. Lucy J., Pomona, Cal. Corsets. 653
663. Kuh, Nathan & Fisher Co., Chicago. Ready made clothing. 652
664. Lehman, Chas. F., Brooklyn, N. Y. Cork helmets. 654
665. Lewis Knitting Company, Janesville, Wis. Knit goods, hosiery, etc. P-1 657
666. Loquast, Oscar, Des Moines, Iowa. Frock coat, waistcoat and trousers. M. T. ex. 652
667. Losse, J. W., St. Louis, Mo. Full dress and business suit. M. T. ex. 652
677. National Knitting Company, Milwau- kee, Wis. Knit goods, hosiery, etc. P-1 657
678. New Albany Hosiery Mills, New Al- bany, Ind. Knit goods, hosiery, etc. P-1 657
681. Norfolk & New Brunswick Hosiery Co., New Brunswick, N. J. Knit goods, hosiery, etc. P-1 657
682. Northrup Glove Company, Johnstown, N. Y. Gloves. P-1 657
683. Nothorn, R. C., Milwaukee, Wis. Suit and overcoat. M. T. ex. 652
688. Rothschild, E., & Bros., Chicago. Men's clothing. 652
689. Righeimer, John, Charleston, S. C. Morning coat. M. T. ex. 652
DEPARTMENT H.—MANUFACTURES.

691. Schilling Corset Company, Detroit, Mich. Corsettes. 653
694. Seybel, F. W., New York. Ladies' hats. 655
696. Siegel Bros., New York. Ladies' underwear and muslin. 658
697. Siegel, F., & Bros., Chicago. Cloaks. 653
699. Somers, Frank D., Boston. Frock coat, waistcoat, top coat and trousers. M. T. ex. 652
702. Star Knitting Works, Chicago. Ladies' knit underwear. P-1 657
703. Stentin Knitting Mill, Philadelphia. Knit goods, hosiery, etc. P-1 657
706. Strawbridge & Clothier, Philadelphia. Costumes and wraps. 653
707. Tracy, Mrs. Harriet Ruth, New York. Sewing machine inventions. 659
710. United Shirt & Collar Co., Chicago. Collars, cuffs and shirts; aprons and underwear. 658
711. Van Orden Corset Co., New York. Corsets. 693
714. Walsh, R. J., Chicago. Coat, waistcoat, trousers and overcoat. M. T. ex. 652
715. Waukenoose Company, Boston, Mass. Knit goods, hosiery, etc. P-1 657
720. Wernh, Henry, Chicago. Dress coat, waistcoat and trousers. M. T. ex. 652
722. White Sewing Machine Company, Cleveland, Ohio. Sewing machines. 659
723. Wilde, James Jr., & Co., Chicago. Men's, boys' and children's clothing. 652
724. Windspiegele, Hosiery Company, Laconia, N. H. Knit goods, hosiery, etc. P-1 657
725. Wire Buckle Suspender Company, Williamsport, Pa. Suspeners, garters, shoulder bracers, etc. 658
726. Wolfsbruck, Miss S., New York. Misses' and children's suits. 653
728. Wright, R. C., Denver, Col. Overcoat, business suit, and dress and waistcoat. M. T. ex. 652
729. Yund, Kennedy & Yund, Amsterdam, N. Y. Underwear and hosiery. 657

GROUP 105.

Furs and Fur Clothing.

Exhibits in this group are installed in Sec. G, Block 1, north.

730. Burkhart, A. E., Company, Cincinnati. Furs. 660
731. Gunther's, G. G., Sons, New York. Furs and skins, stuffed animals. 660
733. Shayne, & Co., Chicago. Furs, fur garments and pelts. 660
734. Treadwell, Geo. C., Company, Albany, N. Y. Seal fur garments. 660
735. Wolf & Periolat, Chicago. Furs and garments, mounted animals. 660

GROUP 106.

Laces, Embroideries, Trimmings, Artificial Flowers, Fans, etc.

Exhibits in this group are installed in Gallery, Sec. F.

736. Ball, Mrs. J. J. T., Denver, Col. Needle work. 665
737. Ball & Socket Fastner Co., Boston, Mass. Fasteners for coats, coats, bags, etc. 668
739. Bodenmann, Johannes, Chicago. Embroideries. 669
740. Besuzzi, Miss, Denver, Col. Embroidered screen. 669
741. Brown, Mrs. J. K., Pueblo, Col. Drawn work handkerchief. 664
742. Brown, Mrs. W. T., Indianapolis, Ind. Embroidered piano cover. 669
743. Cass, Mrs. O. D., Denver, Col. Lunch cloth. 669
744. Clarke, Nellie Goodrich, Economy, Ind. Embroidered center piece. 669
745. Coffin, Minnie A., Indianapolis, Ind. Portiere. 669
746. Colcord, Mrs. A. B., Kokomo, Col. Hand made lace cap. 664
748. Cutter, Mrs. Edna M., Denver, Col. Lace handkerchief. 664
749. Darrow, Mrs. F. R., Denver, Col. Handkerchief. 664
UNITED STATES.

750. Deitz, Mrs. Anna L., Denver, Col. Lace. 664
751. Ellis, Mrs. Jessie D., Rensselaer, Ind. Embroidered tablecloth. 665
752. Ellis, Mrs. Henry H., Pueblo, Col. Needlework. 665
753. Excelsior Quilting Company, New York. Fancy stitching and quilting. 665
754. Farwell, Miss C. C., Denver, Col. Needlework. 665
755. Fjeld Sisters, Minneapolis, Minn. Embroidered bannners. 669
756. Flynn, Miss Mary, Denver, Col. Needlework. 665
758. Gibbs, Mrs. A. R., Denver, Col. Handkerchief. 665
759. Harlow, Mrs. Geo. P., Denver, Col. Embroidery. 665
760. Hartwell, Miss Mary, Denver, Col. Lace-cap and handkerchief. 664
761. Hawes, Mrs. Jesse, Greeley, Col. Needlework. 665
762. Heiberger, F. J., Jr., Washington, D. C. Tablecloth made by a journeyman, E. Bosco, of 5,830 pieces, M. T. ex. 665
763. Jantzen, Miss Clara, Denver, Col. Embroidered center piece. 665
764. Jautzen, Miss Hermanna, Denver, Hand-made lace handkerchief. 664
765. Jenkins, Mrs. J. F., Los Angeles, Cal. Tapestry pictures. 669
766. Kent, Miss Clara M., Denver, Col. Embroidered doilies. 665
767. Levering, Amelia F., La Fayette, Ind. Embroidered tablecloth. 669
768. Lowe, Miss Elizabeth, Denver, Col. Embroidered doilie. 665
769. Lusk, Miss Ida, Vincennes, Ind. Embroidered towel. 669
770. Major, Mrs. Fannie, Shelbyville, Ind. Tablecloth. 669
771. McCoy, Mrs. Hattie T., Rensselaer, Ind. Embroidered cushion. 669
772. McNary, Mrs. J. T., Logansport, Ind. Embroidered piano cover. 669
773. Minnis, Sallie, Philadelphia. Embroidered dinner cloth. 669
774. Moore, Mrs. T. H., Denver, Col. Hand-made lace. 664
778. Owens, Mrs. E. T., Pueblo, Col. Lace-handkerchief. 664
779. Perrian, Mrs. S. J., Highlands, Col. Lace-handkerchiefs. 664
780. Renk, Miss Bertha A., Milwaukee, Wis. Art embroidery. 669
781. Reeves, Mrs. J. Franklin, Richmond, Ind. Embroidered curtains. 669
782. Reynolds, Mrs., South Bend, Ind. Tapestry scarfs. 668
783. Richardson & DeLong Bros., Phila- delphia. Patent hooks and eyes. 668
784. Ridgway, Mrs. M. M. G., Indianapolis, Ind. Embroidered cushion cover. 669
785. Saint Elizabeth’s Guild of Holy Trinity Church, Pueblo, Col. Embroidered altar cloth and communion linen. 665
786. Sallada, Mrs., Denver, Col. Hand-made lace. 664
787. Sea, Clara, Indianapolis, Ind. Embroidered tablecloth. 669
788. Shilling, Miss Ida W., Aspen, Col. Embroidered doilies. 665
789. Skeewes, Mrs. Rose Meeker, Greeley, Col. Hand-made lace cape. 664
790. Smith, Mrs. Marie Campbell, Boulder, Col. Infant’s dress. 665
791. Solsbury, Cora, Indianapolis, Ind. Embroidered table decorations. 669
792. Solsbury, Pearl, Indianapolis, Ind. Embroidered table decorations. 669
793. Sperry, Mrs. H. L., Indianapolis, Ind. Embroidered table mat. 669
794. Stevens, Miss E. J., Washington, D. C. Tapestries. 670
795. Strode, Miss F., Denver, Col. Decorated scarf. 665
796. Studebaker, Mrs. Clem, South Bend, Ind. Embroidered bed-room furnishings. 669
797. Taylor, Miss Ida, Logansport, Ind. Embroidered table mat. 669
798. Union City Thimble Co., Union City, Conn. Thimbles. 668
799. Vanatta, Mrs. J. K., Colorado City, Col. Lace handkerchief. 664
800. W. J. White, Miss A. S., Denver, Col. Needlework. 665
801. Wells, Mrs. S. W., Highlands, Col. Lace handkerchiefs. 664
802. White, Mrs. Lillian, Eau Claire, Wis. Art needlwork. 669
803. Williamson, Mary A., Indianapolis, Ind. Art embroideries. 664
804. Williamson, Miss J. A., Indianapolis, Ind. Cushion. 669
805. Williamson, Mrs. Sallie A., Indianapolis, Ind. Embroidered table cloth. 669
806. Williamson, M. A., Indianapolis, Ind. Embroidered tablecloth. 669

GROUP 107.

Hair Work, Coiffures and Accessories of the Toilet.

Exhibits in this group are installed in Gallery, Sec. G.

807. Burnham, E., Chicago. Hair goods, jewelry, tools, etc. 673
808. India Rubber Comb Company, New York. Combs and brushes. 675
For exhibit see page 350 and 464
809. Moutoux, Wm. E., New York. Hair devices and jewelry. 672
810. Nicol & Co., Chicago. Hair tools and heaers. 674
811. Palmetto Fibre Company, Chicago. Brushes. 675

GROUP 108.

Traveling Equipments, Valises, Trunks, Toilet cases, Fancy Leather work, Canopiers, Umbrellas, Parasols, etc.

Exhibits in this group are installed in Gallery, Sec. P.

### GROUP 109.

**Rubber Goods, Caoutchouc, Gutta Percha Celluloid and Zylonite.**

Exhibits in this group are installed in Gallery, Sec. F.

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>823.</td>
<td>American Rubber Co., Boston. Mackintoshes, rubber and oil clothing. 683</td>
</tr>
<tr>
<td>826.</td>
<td>India Rubber Comb Company, New York. Hard and soft rubber goods. 686</td>
</tr>
<tr>
<td>827.</td>
<td>Kaldenberg, F. J., &amp; Co., New York. India rubber goods, etc. 691</td>
</tr>
<tr>
<td>828.</td>
<td>Stoughton Rubber Company, Boston. Rubber garments. 683</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>829.</td>
<td>Towers, A. J., Boston. Waterproof clothing. 683</td>
</tr>
</tbody>
</table>

### GROUP 110.

**Toys and Fancy Articles.**

Exhibits in this group are installed in Gallery, Sec. F.

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>830.</td>
<td>Barney &amp; Berry, Springfield, Mass. Ice and roller skates. 695</td>
</tr>
<tr>
<td>831.</td>
<td>Converse, Morton E., Winchendon, Mass. Toys and novelties. 693</td>
</tr>
<tr>
<td>832a.</td>
<td>Hansen, E., Philadelphia. Art novelties; inlaid pearl mosaics. 695</td>
</tr>
<tr>
<td>833.</td>
<td>Ives, Blakeslee &amp; Williams Co., New York. Mechanical toys. 693</td>
</tr>
<tr>
<td>835.</td>
<td>Joy &amp; Seliger, Newark, N. J. Fancy articles. 695</td>
</tr>
</tbody>
</table>

For exhibit see page 551.

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
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<tbody>
<tr>
<td>837.</td>
<td>Parker Bros., Salem, Mass. Parlor games and toys. 693</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>838.</td>
<td>Pattberg, Lewis &amp; Bro., Jersey City, N. J. Fancy goods. 694</td>
</tr>
<tr>
<td>839.</td>
<td>Pia, Peter F., New York. Pewter toys. 693</td>
</tr>
<tr>
<td>840.</td>
<td>Rice &amp; Hochster, New York. Tortoise-shell articles. 695</td>
</tr>
<tr>
<td>841.</td>
<td>Rosenblatt &amp; Co., Chicago. Plush and leather boxes, etc. 694</td>
</tr>
<tr>
<td>842.</td>
<td>Ross, M. B., Cambridgeboro, Pa. Game. 693</td>
</tr>
<tr>
<td>843.</td>
<td>Tabolewski, Mrs. A. J. Denven, Col. Patent game and badge &quot;T 1893 or Chicago.&quot; 695</td>
</tr>
</tbody>
</table>

### GROUP 112.

**Scales, Weights and Measures.**

Exhibits in this group are installed in Sec. Q, Block 1, north.

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>845.</td>
<td>Buffalo Scale Company, Buffalo, N. Y. Scales. 706</td>
</tr>
<tr>
<td>846.</td>
<td>Chicago Scale Company, Chicago. Scales and balances. 707</td>
</tr>
</tbody>
</table>

For exhibit see page 769.

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>848.</td>
<td>Kirk &amp; Bailey, Cincinnati. Family scales, bicycle grindstones, etc. 706</td>
</tr>
<tr>
<td>849.</td>
<td>Metric Metal Company, Erie, Pa. Gas meters. 711</td>
</tr>
<tr>
<td>851.</td>
<td>National Meter Company, Brooklyn, N. Y. Water meters. 711</td>
</tr>
<tr>
<td>854.</td>
<td>Thomson Meter Company, Brooklyn, N. Y. Water meters. 711</td>
</tr>
</tbody>
</table>

### GROUP 113.

**Material of War Ordnance and Ammunition; Weapons and Apparatus of Hunting, Trapping, etc.; Military and Sporting Small Arms.**

Exhibits in this group are installed in Sec. Q, Block 3, south.

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>856.</td>
<td>Bannerman, Francis, New York. Gun. 714</td>
</tr>
<tr>
<td>857.</td>
<td>Bridgeport Gun Implement Company, Bridgeport, Conn. Gun implements. 718</td>
</tr>
<tr>
<td>858.</td>
<td>Brooks, C. C., Arms &amp; Tool Co., Portland, Me.</td>
</tr>
<tr>
<td>859.</td>
<td>Burgess Gun Company, Buffalo, N. Y. Fire arms. 714</td>
</tr>
<tr>
<td>860.</td>
<td>Carpenter Steel Company, Reading, Pa. Steel and material. 716</td>
</tr>
</tbody>
</table>
862. Ideal Manufacturing Company, New Haven, Conn. Gun implements and ammunition.

863. Jorden, Louis, Chicago. Shotguns. 718

864. Lefever Arms Company, Syracuse, N. Y. Hammerless guns. 718

865. Marlin Fire Arms Company, New Haven, Conn. Fire arms. 714

866. Parker Bros., Meriden, Conn. Shotguns. 718

867. Remington Arms Company, Ilion, N. Y. Fire arms. 714


869. For exhibit see page 247.

870. Union Metallic Cartridge Company, Bridgeport, Conn. Metallic ammunition. 714

871. Winchester Repeating Arms Company, New Haven, Conn. a Military small arms and ammunition. 714 b Sporting and hunting fire arms. 714

Reloading tools. 718

GROUP 114.

Lighting Apparatus and Appliances.

Exhibits in this group are installed in Sec. N, Block 3, south.

872. American Automatic Lighting Co., Meriden, Conn. Lighting system. 719

873. American Lamp & Brass Co., Trenton, N. J. Lamps. 719

874. Dietz, R. E., Chicago. Lamps and lanterns. 720

875. Globe Light & Heat Co., Chicago. Street lamps, gas and electric fixtures, reflectors and heating specialties. 720

876. Hohenstein, H., New York. Lamp and candle shades, candles, etc. 719


878. Shultz Gas Fixture & Art Metal Co., Baltimore. Gas and electric fixtures; ornamental. 721

879. Steam Gauge & Lantern Co., Syracuse, N. Y. Lamps and lanterns. 720

880. Swan & Whitehead, Trenton, N. J. Lamps and fancy articles. 719

GROUP 115.

Heating and Cooking Apparatus and Appliances.

Exhibits in this group are installed in Sec. O, Blocks 3 and 4.


a Furnaces. 0-3 725

b Hot water heaters. 726

c Stoves and ranges. 727

882. America Heating Company, Rockford, Ill. Hot water heaters. 0-3 727

883. -American Radiator Company, Chicago. Steam and water radiators. 0-4 726


886. Bucks Stove & Range Co., St. Louis. Stoves and ranges. 727

887. Chapman, H. M., Chicago. Boiler and heaters. 0-3 726

888. Chicago Clothes Dryer Works, Chicago. Laundry stoves and clothes dryers. 0-3 727

889. Chicago Stove Works, Chicago. Ranges and stoves. 0-4 727


For exhibit see page 423.

891. Cleveland Co-operative Stove Company, Cleveland, Ohio. Stoves and ranges. O-4 727


897. Dangler Stove & Manufacturing Co., Cleveland, Ohio. Vapor stoves and ranges. O-3 726


902. Excelsior Manufacturing Company, St. Louis. Stoves. O-3 727

903. Farquhar Heating Company, Chicago. Furnaces and heaters. 0-3 725

904. Fuller, Warren Company, Milwaukee, Wis. Furnaces and heating apparatus. 0-3 725

905. Gorton & Lidgerwood Co., New York. House heating boiler. 0-3 726

906. Goodell Company, Antrim, N. H. Apple and potato parers, seed sowers, cherry stoners, etc. O-3 720


a Furnaces. O-3 725

b Ranges. 727

908. Green, Mrs. M. A., Mountclair, Col. Kitchen utensil—cover holder. 730

909. Griffing, A. A., Iron Company, Jersey City, N. J. Radiators. 0-3 726

910. Hambel, Mrs. A. J., Chicago. Cake beaters. 730


912. Howard Thermostat Company, Syracuse, N. Y. Heat regulators. O-3 725


919. Kelsey Furnace Company, Syracuse, N. Y. Furnaces. O-3 725
922. Magee Furnace Company, Boston. a Furnaces. O-3 725
b Stoves and ranges. 727
923. Mason & Davis Company, Chicago. Ranges and laundry stoves. O-3 727
924. Meisselbach & Bro., Newark, N. J. Can openers. O-3 730
   a Ranges, stoves and ovens. O-3 727
   b Kitchen utensils. 730
928. Milwaukee Gas Stove Company, Milwaukee, Wis. Gas ranges and heaters. O-3 728
929. Milwaukee Stove & Nail Co., Milwaukee, Wis. Army ovens, cookers, etc. O-3 727
931. North-Western Stove Repair Company, Chicago. Stove repairs, waterbacks, etc. O-3 727
   a Furnaces. 725
   b Stoves, ranges. O-4 727
933. Powers Duplex Regulator Company, Chicago. Temperature regulators. O-3 726
934. Pugh & Grovenor, Casselton, N. D. Stoves and drums. 727
936. Reading Stove Works, Reading, Pa. Stoves, heaters, ranges and hot air furnaces. 727
937. Resor, Wm., & Co., Cincinnati, O. Stoves and ranges. O-4 727
938. Richardson & Boynton Co., Chicago.
   a Furnaces, ranges and steam heating apparatus. O-4 725
   b Heating apparatus. 726
   c Ranges. 727
941. Romney, Mrs. Caroline Westcott, Chicago. Oven fixtures for conservation of heat. 727
   a Heaters. 726
   b Ranges and furnaces. 727
944. Spicer Stove Company, Providence, R. I.
   a Furnaces. 725
   b Stoves and ranges. 727
945. Thomas, Roberts, Stevenson Company, Philadelphia. Stoves and ranges. O-3 727
947. Warner, J. W., Oneida, N. Y. Hot water heater and boiler. O-3 727
951. Wilcox Water Heater Company, Chicago. O-3 725
   a Hot water heater and radiator. 726
   b Dish washer. 730
953. Woven Down Duster Company, Chicago. Dusters. O-3 790
954. Wrought Iron Range Company, St. Louis. 0-3 790
   a Furnaces. 725
   b Stoves and ranges. 727
   c Kitchen utensils. 730

GROUP 116.
Refrigerators, Hollow Metal Ware, Tinware, Enamed Ware.

Exhibits in this group are installed in Sec. P, Block 4, south; Sec. H, Block 3; Sec. G, Block 4 and Sec. N, Block 4.

955. Alaska Refrigerator Company, Muskegon, Mich. Refrigerators, beer coolers, etc. P-4 731
960. Henning Wiren, Chicago. Beverage fountain. H-3 731
961. Hurd Refrigerator Company, Duluth, Minn. Refrigerators. P-4 731
963. Keen & Hagerty, Baltimore. Tinware. G-4 733
UNITED STATES.


968. Northern Refrigerator Company, Grand Rapids, Mich. Refrigerators. P-4 731

969. Puffer, A. D., & Sons, Boston. Soda water apparatus. H-3 731

970. Richardson, Chas. H., Gloucester, Mass. Ice crusher. P-4 731

971. Romney, Mrs. Caroline Westcott, Chicago. Refrigerators and cooling room for slaughter houses. 731


975. Tufts, Jas. W., Boston. Soda water apparatus. H-3 731


979. Wisconsin Refrigerator Company, Eau Claire, Wis. Hardwood household refrigerators. P-4 731

GROUP 117.

Wire Goods and Screens, Perforated Sheets, Lattice Work, Fencing, Etc.

Exhibits in this group are installed in Sec Q, Blocks 2 and 3.

980. Baackes Wire Nail Company, Cleveland, Ohio. Wire of every description. Q-3 735


982. Clinton Wire Cloth Company, Clinton, Mass. Wire of all kinds. Q-3 735


984. Roeblings's, John A., Sons Company, Chicago. Wire of all descriptions. Q-2 735

For exhibit see page 358.

985. Translucent Fabric Company, Clinton, Mass. Translucent fabrics for windows, transoms, etc. Q-3 735


987. United States Wire Mat Company, Decatur, Ill. Wire mats and matting. Q-3 741


For exhibit see page 357.

GROUP 118.

Wrought Iron and Plain Metal Exhibits.

Exhibits in this group are installed in Sec. G, Block 4, north, and Sec. H, Block 3, south.


990. Bayer & Scherbuer, New York. Artistic wrought iron, grille work, etc. H-3 743


992. Canton Steel Roofing Company, Canton, Ohio. Sheet metal roofing, siding, etc. H-3 745

993. Central Iron & Steel Works, Brazil, Ind. Wrought iron turnbuckles. H-3 743


999. N. W. Horse Nail Manufacturing Company, Chicago. Horseshoes and nails. G-4 746

1000. Omniform M'l'g Co., New Brunswick, N. J. Horse shoes, and methods of shoeing horses. 746


1002. Rhode Island Perkins Horseshoe Company, Providence, R. I. Horseshoes and toe calls. G-4 746

For exhibit see page 765.


1006. Winslow Bros. Company, Chicago, Ornamental iron. H-3 743

For exhibit see page 1000.

GROUP 119.

Vaults, Safes, Hardware, Edge Tools, Cutlery.

Exhibits in this group are in Sec. P, Blocks 3 and 4, except safes, which are in Sec. Q, Block 2.

1007. American Screw Company, Providence, R. I. Screws, bolts, rivets, etc. 747

1008. Ames, Oliver, Sons Corporation, North Easton, Mass. Shovels, spades, etc. 748

1009. Atlas Tack Corporation, Boston. Tacks, brads, nails, glaziers' points, etc. 747

1010. Automatic Knife Company, Middleton, Conn. Pocket knife. 751
## DEPARTMENT H.—MANUFACTURES.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>City, State</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1011</td>
<td>Bahmann, Mosler &amp; Co., Cincinnati, Ohio</td>
<td>Fire and burglar proof safes, vaults, locks, etc.</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1012</td>
<td>Baker, L. A., Elgin, Ill.</td>
<td>Shingle nailing machine</td>
<td>748</td>
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</tr>
<tr>
<td>1013</td>
<td>Blount Manufacturing Company, Boston.</td>
<td>Hardware specialties.</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1014</td>
<td>Bohanan, Wilson, Brooklyn, N. Y.</td>
<td>Latches, locks, handles, etc.</td>
<td>747</td>
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<tr>
<td>1015</td>
<td>Bommer Bros., Brooklyn, N. Y.</td>
<td>Spiral spring hinges</td>
<td>747</td>
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<tr>
<td>1016</td>
<td>Bardsley, Jos., New York. Wooden door knobs, door springs, checks and checking spring hinges</td>
<td>747</td>
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<tr>
<td>1017</td>
<td>Buck Bros., Millbury, Mass.</td>
<td>Light edge tools</td>
<td>749</td>
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<tr>
<td>1018</td>
<td>Buck, Chas., Millbury, Mass.</td>
<td>Edge tools</td>
<td>749</td>
<td></td>
</tr>
<tr>
<td>1019</td>
<td>Campbell Cutlery Company, Syracuse, N. Y.</td>
<td>Cutlery</td>
<td>751</td>
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<tr>
<td>1020</td>
<td>Carey Safe Company, Buffalo, N. Y.</td>
<td>Safes</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1022</td>
<td>Chicago Spring Butt Company, Chicago.</td>
<td>Builders' hardware</td>
<td>747</td>
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</tr>
<tr>
<td>1023</td>
<td>Cincinnati Tool Company, Cincinnati.</td>
<td>Mechanics' tools</td>
<td>748</td>
<td></td>
</tr>
<tr>
<td>1024</td>
<td>Claus, Shear Company, Fremont, Ohio.</td>
<td>Shears, scissors and knives</td>
<td>751</td>
<td></td>
</tr>
<tr>
<td>1025</td>
<td>Detroit Cork Screw Company, Detroit, Mich.</td>
<td>Corkscrews; knife and cork screw combined</td>
<td>751</td>
<td></td>
</tr>
<tr>
<td>1026</td>
<td>Deal, Josiah J., Canton, Ohio.</td>
<td>Combination locks</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1028</td>
<td>Detroit Safe Company, Detroit, Mich.</td>
<td>Safes, vaults, doors and locks.</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1029</td>
<td>Eagle Lock Company, Terryville, Conn.</td>
<td>Locks, keys and hardware specialties</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1030</td>
<td>Geneva Tool Company, Geneva, Ohio.</td>
<td>Hand framing tools</td>
<td>748</td>
<td></td>
</tr>
<tr>
<td>1031</td>
<td>Gibson, Wm. D., Company, Chicago.</td>
<td>Springs</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1032</td>
<td>Hall Safe &amp; Lock Co., Chicago.</td>
<td>Vaults, safes locks, etc.</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1033</td>
<td>Hatch Cutlery Co., South Milwaukee, Wis.</td>
<td>Shears scissors, pocket cutlery and razors.</td>
<td>751</td>
<td></td>
</tr>
<tr>
<td>1034</td>
<td>Hayes Gold Medal File Company, Philadelphia.</td>
<td>Files</td>
<td>750</td>
<td></td>
</tr>
<tr>
<td>1036</td>
<td>Hillebrand &amp; Wolf, Philadelphia.</td>
<td>Locks and anvil</td>
<td>747</td>
<td></td>
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<tr>
<td>1037</td>
<td>Ide Wrench Company, Troy, N. Y.</td>
<td>Chain and pipe wrenches</td>
<td>748</td>
<td></td>
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<tr>
<td>1038</td>
<td>Iowa Farming Tool Company, Ft. Madison, Iowa.</td>
<td>Hand farming tools</td>
<td>748</td>
<td></td>
</tr>
<tr>
<td>1039</td>
<td>Ives, Hobart B., &amp; Co., New Haven, Conn.</td>
<td>Sash locks and bolts.</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1041</td>
<td>Kearney &amp; Foot Co., New York.</td>
<td>Files and rasps</td>
<td>750</td>
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<tr>
<td>1042</td>
<td>Knickelbocker Ice Co., Chicago.</td>
<td>Ice cutting tools. Dept. G</td>
<td>749</td>
<td></td>
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<tr>
<td>1043</td>
<td>Lynch Manufacturing Company, Madison, Wis.</td>
<td>Lock buckles and illustrations.</td>
<td>747</td>
<td></td>
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<tr>
<td>1044</td>
<td>Maydole, David, Hammer Company, Norwich, N. Y.</td>
<td>Hammers</td>
<td>748</td>
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<tr>
<td>1045</td>
<td>McCaffrey File Company, Philadelphia.</td>
<td>Files and rasps</td>
<td>750</td>
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</tr>
<tr>
<td>1046</td>
<td>Miller Lock Company, Philadelphia.</td>
<td>Locks.</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1047</td>
<td>Mills, A. M., Chicago.</td>
<td>Iron safes.</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1048</td>
<td>Mosler, Bahmann &amp; Co., Cincinnati, Ohio.</td>
<td>Fire and burglar proof safes, vaults, locks, etc.</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1049</td>
<td>Mosler Safe Co., Hamilton, Ohio.</td>
<td>Files and rasps.</td>
<td>750</td>
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</tr>
<tr>
<td>1050</td>
<td>Munger Cotton Manufacturing Company, Chicago.</td>
<td>Hardware specialties.</td>
<td>747</td>
<td></td>
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<tr>
<td>1051</td>
<td>National Safe &amp; Lock Co., Cleveland, Ohio.</td>
<td>Safes, vaults and vault fronts.</td>
<td>752</td>
<td></td>
</tr>
<tr>
<td>1052</td>
<td>Nicholson File Company, Providence, R. I.</td>
<td>Files and rasps.</td>
<td>750</td>
<td></td>
</tr>
<tr>
<td>1053</td>
<td>Northfield Knife Company, Northfield, Conn.</td>
<td>Pocket cutlery</td>
<td>751</td>
<td></td>
</tr>
<tr>
<td>1054</td>
<td>Norton Door Check &amp; Spring Co., Boston, Mass.</td>
<td>Door check and spring for doors.</td>
<td>747</td>
<td></td>
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<tr>
<td>1055</td>
<td>Osborne, C. S., &amp; Co., Newark, N. J.</td>
<td>Safe and harness tools.</td>
<td>748</td>
<td></td>
</tr>
<tr>
<td>1056</td>
<td>Rhode Island Tool Company, Providence.</td>
<td>Machinists' supplies.</td>
<td>747</td>
<td></td>
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<tr>
<td>1057</td>
<td>Rose, Wm., &amp; Bros., Sharon Hill, Pa.</td>
<td>Mechanics' tools.</td>
<td>748</td>
<td></td>
</tr>
<tr>
<td>1058</td>
<td>Russell &amp; Erwin Manufacturing Co., New Britain, Conn.</td>
<td>Hardware; house furnishing goods.</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1061</td>
<td>Stanley Rule &amp; Level Co., New Britain, Conn.</td>
<td>Carpenter's tools.</td>
<td>749</td>
<td></td>
</tr>
<tr>
<td>1062</td>
<td>Sternbergh, J. H., &amp; Son, Reading, Pa.</td>
<td>Bolts, nuts, rivets, screws, etc.</td>
<td>747</td>
<td></td>
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<tr>
<td>1064</td>
<td>Van Wagoner &amp; Williams Co., Cleveland, Ohio.</td>
<td>Hinges; spring.</td>
<td>747</td>
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<tr>
<td>1065</td>
<td>White, J. C., Wasca, Minn.</td>
<td>Nail counter.</td>
<td>747</td>
<td></td>
</tr>
<tr>
<td>1066</td>
<td>Withington &amp; Cooley Manufacturing Co., Jackson, Mich.</td>
<td>Hand, farm and garden tools.</td>
<td>749</td>
<td></td>
</tr>
</tbody>
</table>

## GROUP 120. PLUMBING AND SANITARY MATERIALS.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>City, State</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1068</td>
<td>Dawes &amp; Myler, New Brighton, Pa.</td>
<td>Bath tubs, laundry trays, etc.</td>
<td>758</td>
<td></td>
</tr>
<tr>
<td>1069</td>
<td>Day Manufacturing Company, Detroit, Mich.</td>
<td>Self heating bath tubs and bath tub heaters.</td>
<td>758</td>
<td></td>
</tr>
<tr>
<td>1070</td>
<td>Instantaneous Water Heating Company, Chicago.</td>
<td>Water heaters used with gas.</td>
<td>758</td>
<td></td>
</tr>
<tr>
<td>1071</td>
<td>Kelly, Thos. &amp; Bros., Chicago.</td>
<td>Water closets and wash basins.</td>
<td>754</td>
<td></td>
</tr>
<tr>
<td>1072</td>
<td>Kilbourne &amp; Jacob Manufacturing Co., Columbus, Ohio.</td>
<td>Wrought steel sinks.</td>
<td>755</td>
<td></td>
</tr>
</tbody>
</table>
1072. Lang, E. M., & Co., Portland, Me. Stick, drop and wire solder. 756
1074. Lehner, Johnson, Hoyt Manufacturing Company, Chicago. Plumbers’ brass goods. 756
1075. McCambridge & Co., Philadelphia. Brass material for plumbing, porcelain basins, tubs, etc. 753
1076. Mosely Folding Bath Tub Company, Chicago. Folding bath tubs and water heaters. 753
1078. Oswego Indurated Fibre Company, Oswego, N. Y. Bath tubs, laundry trays, sinks, etc. 753
1079. Peck Bros. & Co., Chicago. Brass work for plumbers, etc. 756
1080. Randolph & Clowes, Waterbury, Conn. Copper range boilers and brass kettles. 756
1081. Smith & Anthony Stove Co., Boston. Water closets, lavatories, bath tubs, sinks, etc. 754
1082. Standard Manufacturing Company, Pittsburgh, Pa. a Bath tubs, hollow ware. 753 b Plumbers’ iron ware and sanitary goods. 756
1084. Stewart Ceramic Company, New York. a Wash tubs, sinks, etc. 755 b Bath tubs. 753
1085. Strong, Boyce & Co., Indianapolis, Ind. Water closets, washstands, bowls and fixtures. 754

GROUP 121.
Miscellaneous Articles of Manufacture Not Heretofore Classed.

Exhibits in this group are installed in Gallery, Sec. F.


1091. Buddington, Mr. & Mrs. F. E., Chicago. Machine for dress cutting system. 756
1092. Campbell Cutlery Co., Syracuse, N. Y. Display trays for cutlery, etc. 756
1093. Cornwell, Elmira, Chicago. Tailor dress cutting system. 756
1094. Daemicke, Paul J., Chicago. Butchers’ supplies. 756
1096. Faries, Robert, Decatur, Ill. Display of fixtures for stores. 756
1097. Hoffman, Geo. Wm., Indianapolis, Ind. Metal polishes.
1098. Howe, Mrs. H. N., Kansas City, Mo. Cyclographic dress-cutting system.
1101. Knickerbocker Ice Co., Philadelphia. Ice cutting tools. 511
1102. Leggett, Edward, & Son, Chicago. Display stands and fixtures.
1103. Matchless Metal Polish Company, Chicago. Metal polishes, etc.
1106. Overbaugh & Hartmann, New York. Confectioners’ cartoons. Dept. A
1107. Palmenberg’s Sons, J. R., New York. Window display fixtures and forms.

For exhibit see page 1008.

Western Valve Co., Chicago, Ill. Valves.
For exhibit see page 358.

American Strawboard Co., Chicago, Ill. Strawboard.
For exhibit see page 428.

For exhibit see page 878.

For exhibit see page 821.

SHOE AND LEATHER TRADES EXHIBIT.
INSTALLED IN SPECIAL BUILDING.

In this special division of exhibits in the Department of Manufactures are included exhibits in group 88, class 552 (colors, blacking, etc.); group 102, class 659 (linen thread, etc.); group 103, class 688 (felt footwear, linings, etc.); group 104, class 656 (boots and shoes); group 109, class 683 (rubber boots, shoes, etc.); and all of group 111 (leather and manufactures of leather), except leather belting; also classes 45 and 44b, in group 74, department of machinery, (machines for preparing and working leather and for making boots and shoes).

GROUP 88.


GROUP 102.


GROUP 103.


GROUP 104.


36. Hall, S. W., Chicago. Over gaiters and leggings. F-6 656.


<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>F-4</td>
<td>Hoag &amp; Heath, Lynn, Mass. Boots and shoes.</td>
</tr>
<tr>
<td>E-5</td>
<td>Hutchinson, F. E., Haverhill, Mass. Shoes and slippers.</td>
</tr>
<tr>
<td>F-4</td>
<td>Murphy Bros., Lynn, Mass. Boots and shoes.</td>
</tr>
<tr>
<td>E-5</td>
<td>Oblinger, Benjamin F., Philadelphia. Boots and slippers.</td>
</tr>
<tr>
<td>F-4</td>
<td>Plant, Thomas G., Lynn, Mass. Shoes.</td>
</tr>
<tr>
<td>F-4</td>
<td>Rtson, John B., Lynn, Mass. Heels and lifts.</td>
</tr>
<tr>
<td>E-2</td>
<td>Rice &amp; Hutchins, Boston. Boots and shoes.</td>
</tr>
<tr>
<td>F-4</td>
<td>Rumsey Bros., Lynn, Mass. Boots and shoes.</td>
</tr>
<tr>
<td>D-1</td>
<td>Smith, A. F., Lynn, Mass. Boots.</td>
</tr>
<tr>
<td>F-4</td>
<td>Smith, R. C., &amp; Sons, Co., Chicago. Shoes.</td>
</tr>
<tr>
<td>D-1</td>
<td>St. John Manufacturing Company, Jersey City, N. J. Shoes and slippers.</td>
</tr>
<tr>
<td>F-4</td>
<td>Sutherland, D. A., Lynn, Mass. Boots, ties and slippers.</td>
</tr>
<tr>
<td>F-4</td>
<td>Tilt, J. E. Shoe Company, Chicago. Boots and shoes.</td>
</tr>
<tr>
<td>F-1</td>
<td>WEBERT, Chas. L., St. Louis, Mo. Boots and shoes.</td>
</tr>
<tr>
<td>E-1</td>
<td>Welch &amp; Landregan, Lynn, Mass. Boots and shoes.</td>
</tr>
<tr>
<td>F-4</td>
<td>Wiley, Wm. H., Hartford, Conn. Leggings, overgaiters, soles, etc.</td>
</tr>
<tr>
<td>F-4</td>
<td>Williams, Clark &amp; Co., Lynn, Mass. Boots and shoes.</td>
</tr>
<tr>
<td>E-1</td>
<td>Wright &amp; Richards, Rockland, Mass. Shoes.</td>
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**GROUP 109.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>F-5</td>
<td>American Rubber Company, Boston. Mackintoshes, rubber and oil clothing, rubber boots and shoes.</td>
</tr>
<tr>
<td>F-5</td>
<td>Boston Rubber Shoe Company, Boston. Rubber boots and shoes; curios from South America.</td>
</tr>
<tr>
<td>F-5</td>
<td>Goodyear Metallic Rubber Company, Naugatuck, Conn. Rubber footwear.</td>
</tr>
<tr>
<td>D-4/2/3</td>
<td>Woonsocket Rubber Company, Providence, R. I. Footwear.</td>
</tr>
</tbody>
</table>

**GROUP 111.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-4</td>
<td>Avery Leather Goods Company, Denver, Col. Leather clothing and novelties.</td>
</tr>
<tr>
<td>C-4</td>
<td>Bark Bros., Philadelphia. Glazed kid, calf and pebble goat; shoes from same.</td>
</tr>
<tr>
<td>A-2</td>
<td>Delvin, Thomas, Arcata, Cal. Parts of harness.</td>
</tr>
<tr>
<td>C-4</td>
<td>Eisendrath, B. D., &amp; Co., Racine, Wis. Shoe leather.</td>
</tr>
<tr>
<td>C-4/5</td>
<td>Foerderer, Robert H., Philadelphia. Glazed kid and shoes of same.</td>
</tr>
<tr>
<td>B-1</td>
<td>Groetzinger, A., &amp; Son, Allegheny City, Pa. Sole leather and belting.</td>
</tr>
<tr>
<td>C-1</td>
<td>Halsey, Sam, &amp; Son, Newark, N. J. Patent, enameled and fancy leather.</td>
</tr>
<tr>
<td>B-1</td>
<td>Hollinger, Amos, Lancaster, Pa. Harness leather.</td>
</tr>
<tr>
<td>B-1</td>
<td>Horton, Gildersleeve &amp; Co., Johnson City, Tenn. Sole leather.</td>
</tr>
<tr>
<td>No.</td>
<td>Company or Firm</td>
</tr>
<tr>
<td>-----</td>
<td>----------------</td>
</tr>
<tr>
<td>112</td>
<td>Lambeau Leather Company</td>
</tr>
<tr>
<td>113</td>
<td>Leas &amp; McVitty, Philadelphia</td>
</tr>
<tr>
<td>115</td>
<td>Marshall, James D.</td>
</tr>
<tr>
<td>118</td>
<td>Mooney, W. W., &amp; Sons</td>
</tr>
<tr>
<td>119</td>
<td>Pöster &amp; Vogel Leather Company</td>
</tr>
<tr>
<td>121</td>
<td>Scarinci, Benjamino</td>
</tr>
<tr>
<td>122</td>
<td>Shaw Leather Company</td>
</tr>
<tr>
<td>123</td>
<td>Smith, Hugh</td>
</tr>
<tr>
<td>124</td>
<td>Smith's, Lyman, Sons Company</td>
</tr>
<tr>
<td>125</td>
<td>Swift and Company</td>
</tr>
<tr>
<td>126</td>
<td>Trostel, Albert, &amp; Sons</td>
</tr>
<tr>
<td>127</td>
<td>Walker, Oakley Company</td>
</tr>
<tr>
<td>129</td>
<td>Weil, J., &amp; Bros.</td>
</tr>
<tr>
<td>130</td>
<td>Wilder &amp; Co.</td>
</tr>
<tr>
<td>133</td>
<td>Zohrlant, Herman, Leather Company</td>
</tr>
</tbody>
</table>

*Note: The table lists various companies and their products.*
AUSTRIA.

GROUP 87.

5. Unterweger Brüder, Thal Assling. Conifere oil (with Alpine photographs).

GROUP 88.


GROUP 89.

   b Colored paper.

GROUP 90.

15. Chivalla & Sohn, Vienna. a Portieres.
   b Store-screens.

GROUP 91.

26. Altziebler, Michael, Lilli (Stiria.) Terra cotta products.
30. Eichler, Ed., Dux. a Terra cotta goods.
   b Faience.
31. Fritzsche & Thien, Prague. Porcelain tobacco pipes and flagons.
33. Groeschel & Spethmann, Teplitz-Turn (Bohemia). Porcelain.
34. Lampl, W., Bohm (Lejra). Floor of terrazzo mosaic.
35. Lazarus & Rosenfeld, Steinschoenau (Bohemia). Porcelain ware.
37. Miller, Gustav, Bodenbach. Flowers of porcelain.
41. Riessner, Stellmacher & Kessel, Teplitz-Turn (Bohemia). Porcelain goods.
42. Victoria, Porzellan, Fabrik Altrohlau near Carlsbad. Bohemia Porcelain goods.
43. Stellmacher, Alfred, Turn-Teplitz (Bohemia). a Faience ware.
   b Porcelain goods.
44. Urbach, Bruder, Teplitz (Bohemia). a Terra cotta goods.
   b Majolica.
   c Faience.
45. Wagner, Anna, Emailatelier, Vienna. Enameled ware.
46. Wahliss, Ernest, Vienna. a Fine art pottery.
   b Perforated faience.
   c Specialties in Vienna Porcelain.
47. Wiener, Email Werke, Vienna. Enamelled ware.

GROUP 92.


GROUP 93.

52. Kraulitz, Adolf, Vienna. Fancy bronze goods.
55. Nehr, Alexander, Vienna. Art metal work.
DEPARTMENT H.—MANUFACTURES.

56. Neufeld, Leopold, Vienna. (Collective exhibit of the Turners of Vienna.) Goods of bronze and brass. 585
57. Schwarz, Anton, Vienna. Art metal work. 585
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920. Schmidt, Theobald, Berlin. House-
hold implements. 730
921. Schoenner, Jean, Nuremberg. House-
hold goods of twisted brass, copper, etc. 730
922. Werner & Pfeiderer, Cannstatt. 
Steam oven. 726
923. Wessely, A. H., Munich. Fire 
place, chimney stoves. 724

GROUP 116.

924. Bing, Gebrueder, Nuremberg. Tin-
ware. 733
925. Creutz, N., Aachen. Cast hollowware. 733
926. Lichtinger, Joseph, Munich. Pewter-
ware. 733
927. Lichtinger, L., Munich. Tinware. 733
928. Naglo, Gebr, Berlin. Sign and draw-
ings. 734
929. Oberschlesische Eisenindustrie, Akt., 
Gesellschaft fuer Bergbau und Huettenbe-
trieb, Gleiwitz. Enamed and tinned 
ware. 734
930. Schreiner, Anton, Mabburg, Bavaria. 
Artistic tinware. 733
931. Thiel, Carl, & Soehne, Luebeck. En-
amed and tinned ware. 734
Stamped and enamelled tinware. 734

GROUP 117.

933. Speiser & Co., Nuremberg. Wire 
goods.
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GROUP 118.
934. Armbruester, Gebraeuder, Frankfort-on-the-Main. Artistic forgings. 743
935. Arnstein & Martin, Berlin. Horseshoes, etc. 746
936. Blume, R., Berlin. Artistic forgings. 743
937. Brechenmacher, Franz, Frankfort-on-the-Main. Forged park gates. 743
938. Buehler, F. & Sohn, Offenbarg i-Baden. Modern forge work. 743
939. Eisenwerk, Joly, Wittenberg, Wittenberg. Stairway of forged iron. 745
940. Gute Hoffnungshuette, Oberhausen. Iron construction for Krupp's pavilion. 745
941. Hammerau, Val., Frankfort-on-the-Main. Ornaments for gates and railings. 744
942. Kayser, Ferd., Leipzig. Forged iron tables and flower basket. 743
943. Kirsch, Reinhold, Munich. Railing, etc. 743
944. Koeckert, Carl, Dessau. Artistic forgings. 743
945. Koibbe, Peter, Sonn, Munich. Artistic forgings. 743
946. Kronklauser, Jos., Munich. Forged iron door knobs, etc. 743
947. Liebig, Peter, Munich. Forged railings. 748
948. Mannstaudt, L., & Co., Kalk, near Cologne. Railings of fancy iron. 743
949. Puls, Ed., Berlin. Artistic forgings, etc. 743
950. Rheinisches Kunstschmiedewerk, Gebr. Lipgens, Dusseldorf. Balcony and stairway railing. 743
951. Schmidt, Robert, & Co., Munich. Forged iron hinges, tea-stand. 743
952. Stumpf, Gottfried, Munich. Artistic forgings. 743
954. Iron Works, Lauchhammer. Busts, relievo portraits, ornaments, etc. 744
955. Weis, Carl, Kaiserslautern. Artistic forgings. 743

GROUP 119.
957. Brahms, Friedrich, Furth. Metal ornaments. 747
958. Eberle, J. N., & Co., Augsburg. Saws, files, etc. 750
963. Ostertag, J., Aalen, Wurtemberg. Vaults with appurtenances. 752
964. Schillitz, Karl, Frankfort-on-the-Main. Artisans' tools, etc. 752
965. Schubert & Werth, Berlin. Safety locks. 747
966. Spring Steel M'f'g Co., Cassel. Ligament saws. 750
967. Wellmann, Altona. Knives. 751
968. Werner, Adolf Fr., Schmalkalden. Tongues. 747
969. Zettner, Gebr., Amberg, Bavaria. Rasps and files. 750

GROUP 121.
971. Osiandersche Kunstostrekreie Anstalt, Ravensburg. Flags. 750
973. Schupp & Nierth, Dresden. Cigar boxes. 750
974. Sedlmayr, Robert, Munich. Tool case. 750
975. Werner, Frz. F., Munich. Flags. 750

GREAT BRITAIN.

GROUP 87.
1. Alexander, James, & Co., Ltd., London. Soaps, cosmetics and perfumery. 549
5. Bishop, Alfred, & Sons, Ltd., London. Effervescent preparations. 547
7. Brunner, Mond & Co., Ltd., Norwich. Pure alkali; soda; ammonia; bleaching powder. 544
8. Burroughs, Wellcome & Co., London. Medicine chests and cases; pharmaceutical preparations. 547
9. Calvert, F. C., & Co., Manchester. a Carbolic acid; sanitary and pharmaceutical preparations. 547
   b Soaps and toilet preparations. 549
14. Ellison, Henry, Jr., Cleckheaton. a Carbone and carbolic acid. 547 b Automatic disinfectors. 548 c Fluid powder and soap. 549.
22. Ness & Company, Darlington. a Disinfecting fluids. 547 b Powders and soaps. 549.
23. Newball & Mason, Nottingham. a Dried herbs. 547 b Beer extracts. 549.
28. Quibell Bros., Newark-on-Trent. a Sheep-dips and disinfectants. 547 b Soaps. 547.
29. Ransom, W., & Son, London. a Dried herbs. 547 b Pharmaceutical extracts, essential oils, etc. 549.
33. United Alkali Company, Ltd., Liverpool. Bleaching powder, salts, ammonia, etc. 544.
34. Usher, Richard, Banbury. Medicinal herbs and pharmaceutical extracts. 547.
35. Zeno & Co., London. Perfumery, extracts, toilet soaps and powders, etc. 549.

GROUP 88.
39. Day & Martin, London. Boot and harness blacking, furniture polish, etc. 559.
41. Harrison & Son, Hanley. Colors, glazes and enamels. 552.
44. McCaw, Stevenson & Orr, Belfast, Ireland. Substitute for stained glass. 554.

GROUP 89.
55. Hickisson, J., London. Marking apparatus, pens, etc. 564.
60. Ward, Marcus, & Co., Ltd., London. a Sunday-school reward cards, calendars, etc. 557 b Writing papers and envelopes. 560.

For exhibit see page 1010. GROUP 90.
64. Collinson & Lock, London. Dining and bed room hangings and furniture. 572.
68. Hampton & Sons, London. Reproduction in carved oak, of the banqueting hall of Hatfield House, the seat of the Marquis of Salisbury. 572.
70. Johnstone, Norman & Co., London. a Diningtable. 566 b Carved panes. 571.
72. Macbeth, Isaac, Wirksworth. Furniture. 567
73. Peyton & Peyton, Birmingham. Brass and iron bedsteads. 567
74. Roberts, Geo., Sheffield. Furniture. 567
75. Winsfields, Ltd., Birmingham. Brass bedsteads, cot and lightern. 567
76. Wright, Geo., & Co., London. Billiard table and fittings. 566

GROUP 91.
77. Ault, William, Burton-on-Trent. Artistic pottery. 575
78. Brown-Westhead, Moore & Co., Cauldon Place, China and earthenware. 576
79. Coalport China Company, Ltd., Coalport, China. 576
81. Doulton & Co., London. Stoneware and ceramic wall decorations, Doulton ware. 575
82. Gibson & Sons, Burslem. Rockingham ware. 576
83. Godwin & Hewitt, Hereford. Tiles. 578
84. Grainger, George, & Co., Worcester. Porcelain and other wares. 577
86. Maw & Co., Ltd., Jackfield. Tiles, mosaics and architectural faience pottery. 578
89. Peake, Thomas, Tunstall. Bricks and tiles. 578
90. Worcester Royal Porcelain Company, Ltd., Worcester. Tea, breakfast and dessert services in china. 576

GROUP 92.
93. Pettigre, Thomas, Navan. Celtic cross, monuments and pedestals. 581

GROUP 93.
95. Johnson, Edmond, Dublin. Fac simile copies of crosses, croziers and shrines from Royal Irish Academy and Trinity College. 585

GROUP 94.

GROUP 95.
98. Hardman & Co., London. Pictorial paintings on glass, ecclesiastical art. (Window) 597
99. Holiday, Henry, London. Stained glass window representing the Nativity, with the adoration of the magi and shepherds and the choir of angels. 597
100. Pace, Ion, London. Stained glass windows and designs. 596
101. Winsfields, Ltd., London. a Screen of stained glass, domestic and civic stained glass. 596
   b Ecclesiastical stained glass windows. 597

GROUP 96.
102. Hems & Sons, Harry, Exeter. Carved church furniture and photographs illustrative of carved work. 598

GROUP 97.
103. Gibson & Co., Ltd., Belfast. Plate. 605
104. Goldsmiths' & Silversmiths' Co., London. a Plate, dessert and toilet services, tea and coffee sets, trays, etc. 605
   b Dressing bags. 607
105. Johnson, Edmond, Dublin. Antique Irish silver articles. 607
106. Mappin Bros., London. a Silverware. 605
   b Cutlery. 606
   c Dressing and traveling bags. 607
   d Electro-plated ware. 609
107. Wells, John, London. Silver plate and historical articles. 605

GROUP 98.
110. Goldsmiths' & Silversmiths' Co., London. Jewelry and gem ornaments. 613
111. Laird, Misses G. & S., Dublin. Conemara and bog oak jewelry. 614
112. Neilson, Shaw & Macgregor, Glasgow, Scotland. Scottish jewelry and ornaments. 612

GROUP 99.
113. Goldsmiths' & Silversmiths' Co., London. a Watches. 617
   b Clocks. 621
114. Smith, John, & Sons, London. a Watches. 617
   b Clocks and time bells. 621

GROUP 100.
116. Behrens, Jacob & Sons, Manchester. 
Silk fabrics. 627

Silk yarns. 627


a Gold and silver tissues. 628 
b Silks, damasks, brocades and brocades. 629 
c Velvets and embroideries. 630

Silk crepes, silk gauzes, silk fabrics and costumes of same. 630

120. Fry & Co., Dublin. 

a Silk taboletes, lute-strings and poplin damasks. 628 
b Carriage laces and trimmings. 632


a Raw silks. 625 
b Dyed silks. 626 
c Suspenders, garters and handkerchiefs. 630 
da Silk trimmings. 632

122. Grout & Co., London. Silk crepes, crepons, mousseline de soie, grenadines, etc. 638

123. Hinde, Francis, & Sons, London. 
Silk crepes. 630

124. Neilson, Shaw & Macgregor, Glasgow, Scotland. Tartan silks and velvets; scarfs, sashes, ribbons, etc. 630


a Silk dress goods. 629 
b Veils and veiling. 630

126. Scottish Home Industries Association, London. Silk goods and embroideries. 628

**GROUP 101.**

127. Barry, Ostler & Co., Ltd., Kirkcaldy, Scotland. Oil cloths, sanitary linoleums and cork carpets. 636

128. Cleghorn, William, Jr., Dundee, Scotland. Jute cloth and yarns. 633

**GROUP 102.**


a Cotton goods. 648 
b Linen goods. 639

132. Behrens, Jacob, & Sons, Manchester. 
Cotton yarns. 638

133. Brookfield Linen Company, Ltd., Belfast. 
Linen fabrics. 639


a Sheetings. 638 
b Household linen and handkerchiefs. 639

135. Brown, John, & Son, Glasgow. Muslins. 639


137. Crippin, William & Young, George, Manchester. Cotton yarn. 638


a Cotton fabrics. 638 
b Linen fabrics. 639

139. Ferguson Bros., London. Cotton linings and shirtings. 638

140. Finlayson, Bousfield & Co., Johnstone, Scotland. Linen threads and twines. 639


a Sheetings. 638 
b Damasks, towing, huckabacks, glass cloths, etc. 639

142. King, ohn, & Son, Glasgow. Scotch window Hollands. 639

Linen damasks, table cloths, napkins, towels, sheetings and shirtings. 639


145. Old Bleach Linen Company, Randals-town. Towels, damasks and other linens. 639

146. Richardson, J. N., Sons, & Owden, Ltd., Belfast. Linen, sheetings, handkerchiefs, towing, etc. 639

147. Robertson, Leslie, Ferguson & Co., Ltd., Belfast. Table damask. 639


149. Turnbull & Stockdale, Manchester. Cretonnes and velveteens. 638

**GROUP 103.**


a Woolen goods. 641 
b Coatings, cassimieres, cheviots and serges. 643


a Woolen goods. 641 
b Worsted goods. 643

153. Behrens, Jacob, & Sons, Manchester. 
Woolen fabrics. 640

Carpets, parqueterie. 649

155. Cameron-Maclachlan, Dugald, Oban, Scotland. Clan tartans. 641


a Woolen cloths. 641 
b Worsted cloths. 643


158. Crippin, William, & Young, George, Manchester. Woolen yarns. 640

159. Dormeuil Freres, London. Woolens and linings. 641


a Shawls. 642 
b Wool serges and coatings. 643 
c Cheviots. 644

161. Hooper, Charles, & Co., Stonehouse, 
Woolen goods for men’s wear. 641

162. Irish Woolen Manufacturing & Ex- 
port Co., Ltd., Dublin. Woolen goods. 641

163. Macnaughton, A. & J., Pitlochry, 
Scotland. Scotch tweeds and homespuns. 644


a Woolen goods. 641 
b Worsted goods. 643
165. Neilson, Shaw & Macgregor, Glasgow, Scotland.
   a Clan tartan fabrics for men and women. 641
   b Tweeds, traveling plaids, rugs, etc. 642
   c Curtains, hearth rugs, carpets, etc. 649


167. Priorities, B. & Co., Idle. a Dress fabrics and cloakings. 641
   b Shawls. 642


169. Smith, Turberville, & Son, London. Axminster carpets. 649

170. Stephen, A. F., Huntley. a Traveling rugs, etc. 642
   b Tweeds, clan tartans, etc. 644

171. Thomson, William, & Sons, Ltd., Huddersfield. a Woolen cloths. 541
   b Worsted cloths. 643

172. Ward & Taylor, Bradford-on-Avon. Tweeds, trousersings, suits, etc. 644


GROUP 104.


176. Holden Bros., London. Boots and shoes. 656

177. Hummel, E. & H., & Co., London. a Hosiery, etc. 657
   b Shirts. 658


179. Irish Woollen Manufacturing & Export Co., Ltd., Dublin. Ready made clothing. 659

180. Lincoln, Bennett & Co., London. Hats and helmets. 654

181. Lewis, William, & Sons, London. a Underwear, hosiery, silk stockings made for King George IV. 657
   b Cravats, shirts and collars. 658

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182. Lobb, John, London. Boots and shoes. 656


185. Morley, W., &n. Gar-terless hose. 657

186. Neilson, Shaw & Macgregor, Glasgow, Scotland. Hosiery. 657


188. Reily, Kate, London. Ladies' costumes and court trains. 653


191. Walker, R., & Sons, Leicester. Woolen underclothing and hosiery. 657

GROUP 106.

192. Benton & Johnson, London. Gold and silver laces, etc. 664

193. Cash, J. & J., Coventry. Insertions and embroideries. 665

194. Harper, Thomas, Redditch. Needles and pins, surgeons' needles, etc. 668

195. Irish Industries Association, London. a Silk and linen laces. 664
   b Embroideries. 665

196. Laird, Misses G. & S., Dublin. a Irish lace. 664
   b Fans. 667


199. National Lace Company, Nottingham. Laces and curtains. 664

200. Peach, Samuel, & Sons, Nottingham. Nottingham lace curtains. 664

201. Turner, R., & Sons, Redditch. Pins, needles and hairpins; needlecases. 668

GROUP 107.


GROUP 108.

204. Bryant, Robert, London. Gun cases, pouches, etc. 677

205. Swaine & Adeney, London. Dept. G a Hunting flasks and sandwich cases. 676
   b Walking sticks and canes. 681

206. White, William, & Son, Glasgow. Tobacco pipes. 680

GROUP 109.


GROUP 110.

211. Stewart, S. R., & Co., Aberdeen. Cups, shoe horns, paper cutters, etc. 695

GROUP 111.


213. Woollams, Wm. & Co., London. Embossed leather. 705

GROUP 112.


GROUP 113.


217. Greener, W. W., Birmingham. Sporting guns. 718

GREAT BRITAIN.

   a Military pistols.  714  
   b Sporting rifles and guns.  718

220. Scott, W., & C., & Son, Birmingham.  
   Sporting guns.  718

GROUP 114.

   Lamps and food warmers.  720

GROUP 115.

   Clothes dryers and airers.  730

   a Gas controlling apparatus.  724  
   b Bath and geyser.  726

GROUP 119.

226. Staniforth, Wm. Thos., Sheffield.  
   Knives.  751

   Locks.  747

228. Wostenholm, George, & Son, Ltd., Sheffield.  
   Knives, table cutlery, razors and scissors.  751

GROUP 121.

   Vestas, matches, wax tapers and braided lights.  751

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1. Ardeshir & Byramji, Bombay.  
   Pottery.  575
2. Ardeshir & Byramji, Bombay.  
   Art metal work.  585
3. Ardeshir & Byramji, Bombay.  
   a Carved sandalwood and furniture.  598  
   b Carved and inlaid ivory.  599
4. Ardeshir & Byramji, Bombay.  
   Silver ware.  604
5. Ardeshir & Byramji, Bombay.  
   Gold and silver jewelry.  612
6. Ardeshir & Byramji, Bombay.  
   Silk fabrics.  627
7. Ardeshir & Byramji, Bombay.  
   Cotton fabrics.  638
8. Ardeshir & Byramji, Bombay.  
   a Shawls.  642  
   b Indian carpets.  649
   Embroidery.  665
10. Ardeshir & Byramji, Bombay.  
    Indian fancy goods.  695
    Cutch ; teak.  543
    Umber.  552
    Ground bone.  92
14. Das & Gopi, Benares City.  
    Embroidery and brocade.  665
15. De Forest, Lockwood, Ahmedabad.  
    House and room in carved wood.  598
    Model of apparatus for preventing collisions on railways.  499
    Silver jewelry.  612
    Musk.  549
    Furniture.  567
    a Carved bones.  588  
    b Carved ivory.  599
    a Metal vases and trays.  608  
    b Plate.  609
    Gold and silver jewelry.  612
    a Fans and hand screens; fancy goods.  667  
    b Embroidery.  669
ITALY.

GROUP 87.
2. Ciaburri, Antonio, Cerreto Sannita. Pharmaceutical preparations. 567
3. Cristofori, Natale, San Vito al Tagliamento. Insect powder. 567
4. Genevois, Felice & Son, Naples. Soaps. 549
5. La Chiavi, Enrico, Palermo. Chemical preparations. 547
7. Manara, Dr. Michele, Pavia. Pharmaceutical preparations. 547
8. Porrivecchi, Carlo, Messina. Essences. 549
9. Rognone, Cav. Carlo, Turin. Anti-septic preparations. 547
10. Tarozzi, Cesare, Bologna. Hair dye. 547
11. Zampironi Laboratory, Mestre. Insect powder. 547

GROUP 88.
12. Chiariello, Pasquale, Naples. Painters' canvas. 555

GROUP 89.
15. Cartiera Reali, Venice. Paper. 556
17. Miliani, Pietro, Fabriano. Paper. 556

GROUP 90.
18. Anti Bros., Vicenza. Furniture. 567
22. Besarel Bros., Venice. Furniture. 567
23. Biasotto, Antonio, Venice. Artistic objects. 572
24. Borrelli Domenico, Naples. Furniture. 567
25. Bozzelli, Marianna, Naples. Artistic furniture. 572
26. Calabresi, Stefano, Naples. Furniture. 567
27. Candiani, Dr. N., Venice. Furniture. 567
31. Ciaramelli, Stefano, Florence. Frames. 569
32. Corbella, Carlo, Milan. Furniture. 567
33. Del Soldato, Giuseppe, Florence. Furniture. 567
34. Frullini, Prof. Luigi, Florence. Artistic furniture. 567
35. Grassi, Erasmo, & Son, Catania. Furniture. 567
36. Mariani, Eduardo, Milan. Furniture. 567
37. Minghetti, Prof. G. B., Vicenza. Furniture. 567
38. Modenato, Marco, Venice. Artistic furniture. 567
40. Meroni & Fossati, Lissone. Furniture. 567
42. Pogliani, Ferdinando, Milan. Artistic furniture. 572
43. Picchi, Andrea, Florence. Picture frames. 572
44. Pucci, Prof. Carlo, Florence. Furniture. 567
45. Querena, Francesco, Turin. Furniture. 567
46. Ramelli, Andrea, Milan. Furniture. 567
47. Rossi & Sons, Venice. Artistic furniture. 572
48. Sonnino, Pasquale, Resina. Furniture. 567
49. Schmitt, Bonifacio, Naples. Furniture. 567
50. Spadaro, Antonino, Noto. Grille work. 572
51. Tappari, Pietro, Florence. Furniture. 567
52. Tenca & Co., Milan. Mirrors. 569
53. Testolini, M. Q., Venice. Furniture. 567
54. Toledo, Matteo, Naples. Furniture. 567
55. Toso, Francesco, Venice. Artistic furniture. 572
56. Zanetti, Antonio, Vicenza. Furniture. 567
57. Zucconi, Vicenzo, Florence. Furniture. 567

GROUP 91.
58. Antonibon, Pasquale, & Sons, Nove. Pottery. 573
59. Artistic Industrial Museum, Naples. Ceramic articles. 573
60. Bazzanti & Son, Florence. Mosaics. 580
62. Cacciapuoti, Ettore & Guglielmo, Naples. Ceramic art. 573
63. Cantagalli, Ulisse, Florence. Pottery. 575
64. Castellani, Comm. Guglielmo, Rome. Pottery. 575
66. De Bottazzi, Ignazio, Turin. Pottery. 575
67. Fabri, Pio, Rome. Majolica. 575
68. Galleano, E., Genoa. Majolica. 575
69. Mazzarella, Bernardino, Naples. Pottery. 575
70. Molaroni & Co., Pesaro. Artistic majolica. 575
71. Mollica, Achille, Naples. Ceramics. 575
72. Montelatici, Giuseppe, Florence. Mosaics. 580
73. Pasqualletti, Carlo; Volterra. Pottery. 575
75. Torelli, Prof. Jafet, Florence. Majolica. 575
77. Rocca, R. & Co., Venice. Mosaics. 580
78. Roccheggiani, Rome. Mosaics. 580
80. Schibba, Luigi, Rome. Mosaics. 580
81. Ugolini, Giovanna, Florence. Mosaics. 580
82. Venetian Mosaic Society, Venice. Mosaics. 580
83. Viero, G. B., Bassano. Majolica. 575

GROUP 92.
85. Andreoni Gallery, Pisa. Marbles. 582
86. Andreoni, Orazio, Rome. Marble statue. 582
87. Bazzanti & Son, Florence. Marbles. 582
88. Frilli, Antonio, Florence. Marbles. 582
89. Ghirardi, Vittorio, Carrara. Marbles. 582
90. Lapini Bros., Florence. Marbles. 582
91. Montarsolo, Vittorio, Genoa. Marbles. 582
92. Scheggi Bros., Florence. Marbles. 582
93. Vannetti, Cesano, Leghorn. Alabaster statue. 582
94. Ventimilian Hospital, Palermo. Marbles. 582
95. Vichi, Ferdinando, Florence. Marbles. 582

GROUP 93.
96. Bartoloni, Oreste, Rome. Bronzes. 585
97. Boschetti, B., Rome. Artistic bronze reproductions. 585
98. Brugo, Cav. Vincenzo, Rome. Artistic objects. 585
99. Calvi, Constantino, Rome. Bronzes. 585
100. Graziosi, Oreste, Florence. Bronze work. 585
101. Johnson, Stefano, Milan. Medals and bronze articles. 585
102. Layet, Cav. Frederico, Venice. Bronzes. 585
103. Muzio, Bartolomeo, Genoa. Bronzes. 585
104. Nelli, Cav. Alessandro, Rome. Artistic bronze reproductions. 585
105. Olivari, Gaetano, Genoa. Bronze crown. 585
106. Pandiani, Antonio, Milan. Bronzes. 585
107. Quadrelli, Mario, Milan. Bronze and silver articles. 585
108. Testori, Giuliano, Turin. Bronzes. 585
109. Tosato, Domenico, Venice. Gilded figures. 585
110. Traverso, Lorenzo, Genoa. Bronzes. 585

GROUP 94.
111. De Caro, Antonio, Naples. Glassware. 591
112. Salvati & Co., Venice. Glass. 591
113. Venice and Murano Company, Venice. Glassware. 591

GROUP 96.
115. Cadorin, Vincenzo, Venice. Wood carvings. 598
116. Nebbiosi Nicodemo, Voghera. Wood work. 598
117. Vannuchi, Rodolfo, Florence. Carved wood. 598

GROUP 97.
118. Accarisi & Nephew, Florence. Artistic silverware. 605
119. Calvi, Constantino, Rome. Silverware. 605
120. Ciardi, Antonio, Prato. Artistic silverware. 605
121. Consoli Cav. Alfio, Milan. Silverware. 605
122. Frumento, M. G., Genoa. Silver filigree. 607
123. Graziosi, Oreste, Florence. Gold work. 604
124. Miglio, Giuseppe, Vercelli. Filigree work. 607
125. Meda, Francesco, Milan. Silverware. 605
126. Quadrelli, Mario, Milan. Silver articles. 607

GROUP 98.
127. Berretta, Stefano, Rome. Filigree jewelry. 612
128. Bettini, Mario, Florence. Gold and silver jewelry. 612
129. Bonetti, Giuseppe, Florence. Gold and jewelry. 612
130. Cami, Enrico, Rome. Cameos. 614
131. Cortellazzo, Antonio, Vicenza. Gold jewelry. 612
132. De Felici Publio, Rome. Cameos. 614
133. De Marco, Antonino, Naples. a Gold work. 612
b Coral. 614
134. Errico, Vincenzo, Naples. Gold jewelry. 612
137. Labriola, Angelo, Naples. Coral and tortoise shell work. 614
138. Labriola, Mariano, Naples. Coral jewelry and tortoise-shell. 614
140. Morabito, Rocco, Naples. Gold jewelry. 612
DEPARTMENT H.—MANUFACTURES.

142. Pallotti, Luigi, & Bros., Venice. Gold jewelry. 612
143. Parodi, Nicolo, Genoa. Gold jewelry. 612
144. Petralli & Co., Florence. Gold work. 612
145. Pelisier, Leopoldo, Rome. Gold jewelry. 612
146. Piscione, Michele, Naples. Gold jewelry. 612
147. Piscione, Enrico, Naples. Coral jewelry and tortoise shell. 614
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GROUP 99.
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152. Gargiulo, Rocco, Naples. Silk. 628
153. Malizia, G., Milan. Silk goods. 628
155. Ronchetti, C. F., Milan. Raw silk. 625

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156. Zari Bros., Milan. Wood carpets. 635

GROUP 102.
157. Alzati, Gaetano, Milan. Woollen goods. 638
159. Finzi, A., Venice. Dry goods. 638

GROUP 103.
160. Arandon, Griacomo, Turin. Woolens. 640

GROUP 104.
161. Brischetto, Sebastiano, Acireale. Boots and shoes. 656
162. Campiaghi, Giuseppe, Monza. Hats. 654
163. Cannizzaro, Giovanni, Palermo. Clothing. 652
164. Carozzi, Giuseppe, & Son, Monza. Hats. 654
165. Caviezel, Rodolfo, Florence. Boots and shoes. 656
167. Corsaro, Francesco, Catania. Shoes. 656
168. De Luca, Gaetano, Catania. Boots and shoes. 656
169. Di Branda, Gaspare, Palermo. Boots and shoes. 656
170. Durante, Giuseppe, & Son, Palermo. Clothing. 652
171. Frinzi, Russo Giovanni, San Stefano Comastra. Boots and shoes. 656
173. Goio, Giuseppe, Rome. Clothing. 652

GROUP 105.
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536. Nimmatsu Uno, Kyoto. Stoneware.


538. Oroshiyahashi & Co., Gifu. China
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540. Otojiro Terabayashi, Kyoto. Porcelain
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542. Riichi Egawa, Kyoto.
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545. Risaburo Momoda, Saga. Stoneware.

546. Risuke Hiraoka, Kyoto. Porcelain
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547. Rokuhei Matsuda, Kyoto. Stoneware.

548. Rokunosuke Shimizu, Nagoya. China
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549. Rokuro Tazan, Kyōto. Stoneware.


553. Sahei Matsumoto.
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554. Samuro Mizoue, Saga. Stoneware.


557. Seiko Nagai, Kyōto. Faience flower
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558. Sekisen Kitayama, Kyoto. Porcelain
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560. Seiji Kwaisha, Saga.
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561. Seishi Naruse, Gifu. Ornament.


564. Seto Earthenware Association, Seto.
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565. Setsuzan Akamaru, Ishikawa. China
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566. Shinsuke Hayashi, Kyōto. Stoneware.

567. Shojiro Okura, Ishikawa. Umbrella
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| 581. | Tamuro Okamoto, Ishikawa. Porcelain. | 577 |
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| 584. | Tantosha, Osaka. Chinaware. | 576 |
| 585. | Tarijiro Nakamura, Kanazawa. Porcelain. | 577 |
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| 602. | Tsuna Hattori, Tokyo. Stoneware. | 575 |
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| 605. | Toramatsu Fukumatsu, Ishikawa. Porcelain. | 577 |
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| 613. | Yaichiro Agano, Kumamoto. Chinaware. | 576 |
| 614. | Yashiro Kimura, Ishikawa. Porcelain. | 577 |
| 615. | Yauki Yoshiwara, Kumamoto. Chinaware. | 576 |
| 616. | Yashichi Uchino, Tokyo. Vases and plates. | 576 |
| 617. | Yasuke Fujita, Osaka. Flower vases. | 576 |
| 618. | Yasukiyō Tomoda, Ishikawa. Pottery. | 575 |
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| 620. | Yasunosuke Kitami, Kyoto. Stoneware. | 575 |
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| 622. | Yohei Iwata, Hyogo. Flower vase. | 576 |
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| 624. | Yohei Taizan, Kyoto. Faience flower vases. | 576 |
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| 630. | Yoshitake Suwa, Ishikawa. Stoneware. | 575 |
| 631. | Yoshizō Shibata, Kyoto. Faience. | 576 |
| 633. | Zenjiro Nakamura, Kyoto. Flower vases. | 576 |
| 634. | Zenaburo Tanaka, Tokyo. Semi-porcelain. | 576 |
| 635. | Zoji Sasada, Ishikawa. Porcelain. | 577 |

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642. Chōshichi Jyōda, Toyama. Art metal work. 585

643. Chōzaburō Matsuyama, Toyama. Art metal work. 585

644. Choyoichiro Kanamori, Toyama. Art metal work; incense burner. 585

645. Chyōkichi Suzuki, Tokyo. Art metal work. 585

646. Chyubei Takeuchi, Aichi. Cloisonne ware. 586

647. Chyubei Nakagawa, Toyama. Art metal work (flower vases, plaque). 585

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650. Eiziro Kajima, Tokyo. Art metal work. 585

651. Fusajiro Takayanagi, Toyama. Art metal work, flower vases; incense burners. 586

652. Genemon Ishida, Aichi. Cloisonne ware. 586

653. Gihei Seki, Toyama. Art metal work. 585

654. Gimbei Kuroha, Ibaraki. Art metal work (card receivers, flower vases, incense burners; frames, etc.). 585

655. Ginjiro Sawada, Tokyo. Copper ware. 586

656. Hachizaemon Hayashi, Nagoya. Cloisonne ware. 586

657. Hanemon Matsuta, Iahikawa. Copper ware. 586

658. Heizō Seki, Toyama. Art metal work. 585

659. Hirotsuke Hayashi, Nagoya. Cloisonne ware. 586

660. Hocisha, Aichi. Cloisonne ware. 586

661. Ichibei Kajima. Art metal work. 585

662. Ichibei Noda, Kanagawa. Cloisonne ware. 586

663. Ichitaro Morimura, Tokyo. Copper plates. 585

664. Ihei Fujii, Kyoto. Silver incense burner. 585

665. Iwakichi Ōtsuka, Kyoto. Niello work. 588

666. Izaemon Mikami, Kyoto. Cloisonne ware. 586


668. Jisaburo Takayanagi, Toyama. Art metal work (flower vases, incense burners). 585

669. Jisuka Komake, Toyama. Art metal work. 585

670. Jisuke Kotake, Toyama. Art metal work. 585

671. Jitsuemon Satō, Nagoya. Cloisonne ware. 586

672. Jyubei Ando, Aichi. Cloisonne ware. 586


674. Jyūjirō Koizumi, Ibaraki. Art metal work. 585

675. Jyutaro Hirata, Tokyo. Art metal work. 585

676. Kahei Okada, Nagoya. Cloisonne ware. 586

677. Kahei Yamazaki, Toyama. Art metal work. 585

678. Kai Tsuda, Kyoto. Cloisonne ware. 586

679. Kanazawa Dōki-Kwaisha, Ishihara. Art metal work. 585

680. Kansai Trading Company, Kyoto. a Art metal work. 585 b Cloisonne ware. 586

681. Kanzaemon Kakuha, Toyama. Art metal work. 585

682. Kashichiro, Iwashiro, Toyama. Art metal work, card receiver. 586

683. Kasuuke Itō, Nagoya. Cloisonne vase; knife handles. 586

684. Katsuyoshi Shōami, Okayama. Incense burners. 585

685. Kaziro Kobayashi, Tokyo. Art metal work. 585

686. Keitarō Nozaki, Toyama. Art metal work. 585

687. Kichibei Nakamura, Tokyo. Card receiver. 585

688. Kichigoro Suzuki, Tokyo. Art metal work. 585

689. Kichijirō Tanaka, Kanagawa. Cloisonne ware. 586

690. Kingo Kotsuka, Nagoya. Cloisonne ware. 586


692. Kisuke Kato, Toyama. Art metal work; incense burner. 585

693. Kohei Inami, Toyama. Art metal work (incense burner). 585


695. Komakichi Tsugane, Nagoya. Cloisonne ware. 586

696. Kokan Murata, Kyoto. Art metal work. 586

697. Kyubei Noguchi, Osaka. Art metal work. 585

698. Masafusa Tsubai, Nagoya. Cloisonne ware. 586

699. Masakichi Yoshimura, Toyama. Art metal work (card receiver). 585

700. Masanori Okadera, Nagoya. Cloisonne ware. 586

701. Masaru Miyamoto, Tokyo. Art metal work. 585

702. Masubei Tsukamoto, Nagoya. Cloisonne ware. 586

703. Masuemon Itō, Kanagawa. Cloisonne ware. 586

704. Matajirō Nakano, Toyama. Art metal work. 585

705. Mosuka Kuroda, Nagoya. Cloisonne ware. 586

706. Motokichi Hongo, Toyama. Art metal work (flowered vase). 585

707. Naoji Sugimoto, Toyama. Art metal work. 585

708. Naozaburō Yomamoto, Hyōgo. Cloisonne ware. 586

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715. Saburoemon Okamura, Toyama. Art metal work; flower vases. 585.
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717. Sadajirō Ametani, Toyama. Art metal work. 585.
718. Sadashichi Takao, Osaka. Art metal work. 585.
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726. Seizirō Shōami, Okayama. Frame. 585.
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734. Shinji Kugitani, Kumamoto. Art metal work. 586.
737. Shyōchirō Nishimura. Art metal work. 586.
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753. Tatsutarō Takeura, Toyama. Art metal work; incense burners. 585.
758. Tomojiro Kaji, Toyama. Art metal work; incense burners. 585.
761. Toshimitsu Yano, Tōkyō. Art metal work. 585.
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770. Yaezi Ozeki, Tōkyō. Art metal work. 585.
774. Yasutaro Futatatsuka, Toyama. Art metal work. 585.
781. Yoshichirō Masuda, Toyama. Art metal work. 585
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783. Yososhichi Nakasugi, Toyama. Art metal work. 585
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785. Zenroku Fujita, Toyama. Art metal ware. 585
786. Zenshichi Kyō, Toyama. Art metal work. 585
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790. Zimbei Tsukamoto, Nagoya. Cloisonne ware. 586

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792. Shingirō Tanaka, Osaka. Decorated glass and tumblers. 592

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796. Chyokichi Suzuki, Tokyo. Copper incense burner; vases. 601
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798. Denkichi Ikeda, Tokyo. Ivory carving. 599
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803. Eiskeye Mīyao, Tokyo. Metallic carving. 601
804. Eizaburo Omiri, Ishikawa. Carved woodwork. 598
805. Fusagoro Kohara, Osaka. Wood carving. 598
806. Fusakichi Nakaya, Osaka. Wood carving. 598
807. Gennōjirō Yoskida, Kyōtō. Wood carving. 598
808. Gennoku Mizuno, Ishikawa. Metal carving and chiseling. 601
809. Gihei Honho, Toyama. Wood carving. 598
810. Ginzeiro Swanada, Tokyo. Ivory carving. 599
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812. Gorosaburo Kanaya, Kyoto. Metal carving and chiseling. 601
813. Hakuzutsu Ono, Tokyo. Ivory carving. 599
814. Hanbei Koshino, Ishikawa. Metal work. 598
815. Hanun Hashii, Tottori. Carved work. 598
816. Hatsu Asahi, Tokyo. Carved woodwork. 599
817. Hideakī Tsukada, Tokyo. Metallic work. 601
818. Hikobei Tomei, Kyoto. Copper ware. 601
819. Hikokuro Miyasaka, Ishikawa. Flower vases; plaque (copper). 601
820. Hisanichi Takeuchi, Tokyo. Wood carving. 598
821. Hisamitsu Yano, Tōkyō. Card cases. 598
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823. Hyokichi Honho, Toyama. Wood carving. 598
824. Ichimatsu Ono, Osaka. Wood carving. 598
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828. Issie Hasegawa, Tokyo. Card receiver. 598
829. Isshi Hashimoto, Kyoto. Metal carving and chiseling. 601
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832. Jiromatsu Kashida, Ishikawa. Incense burner; plaque (copper). 601
833. Jyunosuke Arakawa, Shimane. Wood carved ornament. 598
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835. Kahei Shimaseki, Tokyo. Metallic work. 601
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SIAM.

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2. Biscuits of rice, lotus, sweet pea, grass root, etc.
3. Sugar.
4. Potatoes, stock roots, etc.
5. Dried fish, meats and fowl.
7. Tobaccos.
9. Hemp.
10. Silk.
11. Agricultural implements and farmers’ tools.
12. Bones, tortoise shells, etc.
13. Elephants, tusks, plain and carved, buffalo horns, deer antlers, wild cows’ horns, rhinoceros’ horns, ceroulus’ horns, horn of chelonia, etc.

GROUP 21.
14. All varieties of Siamese fruits in wax and in paintings.
16. Preserved and candied fruits.
17. Flowers in wax.
18. Vegetables and fruit seeds.

GROUP 38—CLASS 254.
19. Casting, circular, square, scoop, drag, stationary and “soom” fish nets; trapping, etc., standing, cap-shaped and washing baskets; funnel, and other traps; weirs, spears, eel forks, harpoons, tridents, pawn scoops, hooks, rods, and lines, and basket fence.

GROUP 40.
20. Shell and horn work.

GROUP 42.
21. Gold, tin, iron and other ores; rubies, sapphires and other gems.

DEPARTMENT B.

GROUP 2.
22. Boats (Models). His Majesty’s barge, state barges, nobleman’s boat, gondola, waat boats, Lampaunce boat, pet boats, and all kinds of fishing and pleasure craft.

DEPARTMENT D.

GROUP 85—CLASS 528.
24. Hat racks.
25. China rice bowls and covers, full sets of rice and curry bowls, sets of perfumery cups and covers, sets of powder cups and covers, sets of tea cups and spitoons.
26. Earthen goblets, jugs, mortars, etc.

GROUP 97—CLASS 604.
27. Fancy scent bottles.
28. Carvings of chess men, boxes, brushes, animals, cigar stands, and figures in ivory, wood, etc.

GROUP 99—CLASS 607.
29. Metal Work, Red Gold Articles. Spitoons, tea pots and trays, saucers, cups, bowls, jugs, betel boxes and betel services, set with diamonds, spitoons set with diamonds.
30. Gilded. Water bowls, trays and cups, betel sets and boxes, tea tray, medicine cups, belts and spitoons.
31. Gilded and Enameled in Blue. Water bowls, goblets, trays and covers, tea pot and tray, betel boxes and sets, toilet trays and set, cigar cases.

CLASS 608.
32. Silver Articles. Rice bowls and covers, laos bowls, betel trays and sets, tea trays, spitoons, water bowls, urns, pots, cups and covers, vases, belts, toilet service, picnic case and snuff box.
33. Enameled, Gilded, etc. Bowls, ladle, salvers, urns, water pitchers, toilet sets, betel sets, spitoons, basins, vases, cigarette case, medicine cup and tray.
34. Brass Utensils. Bowls and trays, fruit knives, seed picks, spitoons, eating services, water bowls and dippers, betel mortars and pestles, engraved bowls and trays, rice pots and ladle.
35. Copper Utensils. Rice pots, cake pans and water pots.
36. **Pearl Inlaid Work.** Salvers, sacrificial trays, boxes, plaques, betel trays, spittoons, medicine chest, inlaid tablets, bowls, and cases.

**CLASS 575.**

37. **Pottery.** Earthen stoves, pots, pans, mortars, figures of animals, flower pots and sets of perfumery pots.

**CLASS 685.**

**GROUP 101.**

38. **Matting.** Forty-eight mats of various sizes and materials.

**GROUP 108.**

39. Laotian umbrella. 682

**GROUP 110.**

40. Lacquered boxes and bowls. 695

**GROUP 111.**

41. Tiger, leopard, deer, buffalo, cow, otter, armadillo, python, rays, rhinoceros and rabbit skins. 696

**GROUP 113.**

42. Siamese bow. 718

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**GROUP 154.**

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**GROUP 158.**

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48. **Rattan Woods.** Varieties of rattan in coils, bundles, etc., and canes, rattan covers for glass.

49. **Bamboo Woods.** Fourteen varieties of bamboo woods and wood-working tools.

50. **Basket Work.** Trays, salvers, cigar stands, betel and tobacco boxes and 134 specimens of hamper, betel, market, rice, Burnese, flower, string, plat betal, drying deep and clothes baskets.

51. Native trees in wax. 113

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52. Siam. Models of household utensils; models of houses; models of floating houses; models of palace landing forts and palace landing building; priests' fans, bags and garments.

53. **Malay Clothing.** Silk trousers, turban cloths, and silk jackets for men and women.

54. Song Dam Laos. Cotton scarfs and jackets for men and women; trousers.

55. Luang Prat Bang Laos.—Gold-threaded scarfs, skirts, quilts, bedspreads, and turban cloths.

56. Puan Laos. Men's and women's costumes.

57. Lu Laos. Woman's skirt, man's jackets and trousers, laos bags and napkins.


59. Mons. Indian hemp, raw and spun; various cloths, skirts, apron, jackets, shoes and cap.

**GROUP 172.**

60. **Needle work.** Pillows, folding cushions, raised gold embroidery, tea coas, silk caps, silk embroidered standing screens, silk handkerchiefs, priest's bag and embroidered fruits, flowers, arms and historical scenes.

61. **Clay Modeling.** Women crouching, old woman, boys in costumes, girls in costumes, girls standing, man in holiday dress, old woman with cane, man sitting, man in shirt-sleeves, peasant, blind beggars, Chinese cooly eating, Chinaman at table, young woman on floor, old woman, boys, Siam, Chin boys, bracelets, etc., ornamental wall piece, table piece (shells), wall piece (quarrel), beggar and monkey, man and axe, plates of fish, plates of frogs, plates of birds, plates of chameleons, white rabbit, leopard, pair buffaloes, pair oxen, cat, small gold and silver articles and rings.

62. **Wax.** Model of a palace.

63. **Bead work.** Baskets, betel tray and set of nine pieces, tea cozy, biscuit box, bucket, small cups, flowers, game, photograph frames, chess board and set and sakā board and set.

64. **Silk Clothing.** Panungs of silk, gold and embroidered and gold and silver threaded, panungs, silk sarongs, chantaboon, silk bed spreads, creased scarfs, silk scarfs, bathing clothes, a prince's gold and silver state robe girdle, silver and gold pantaloes, nobleman's robe, girdle and doublets, prince's shawls the queen's scarf, silk and gold lace shawls, silk cape rjoks, red silk girdles, children's silk belts, gold-threaded money bags, betel pockets, gold lace aprons tobacco pouches, gold lace bat cover.
SWEDEN.

GROUP 87.
1. Jönköpings Tändsticksfabriks Aktiebolag, Jönköping. Matches and materials. 550
2. Kritbruksbolaget i Malmo, Malmo. Chalk. 544
3. Skanaka Attikfabriken, Perstorp. a Organic and mineral acids. 543 b Chemists' and druggists' wares and supplies. 548
4. Sodertelje Tändsticksfabrik, Sodertelje. Matches. 550
5. Tändsticksfabriks Aktiebolaget Vulcan, Gothenburg. Matches and flaming lights. 550

GROUP 88.
6. Aktiebolaget Barmangens Tekniska Fabrik, Stockholm. Inks. 552
7. Tekniska Aktiebolaget Flora i Gefle, Gefle. Inks. 552

GROUP 89.
10. Eegvistrad, Sophie, Stockholm. Samples of ruling, type-setting and hand printing. 561
11. Gustafsors Fabrikens Aktiebolag, Gustafsors. Wrapping paper. 558
12. Hedberg, Gustaf, Stockholm. Leather book-covers, cases, etc. 561
16. Munksjö Aktiebolag, Jönköping. a Building boards and paper. 557 b Wrapping paper. 558
17. Munktells, J. H., Pappersfabriks Aktiebolag, Grycksbo. Filter-paper; samples and pulp. 556

GROUP 90.
20. Ahberg, Ebba, Upsala. Curtains. 568
24. Atvidaberg Snickerifabrik, Atvidaberg. Oak parquet floors and panel. 571
25. Beckman, Axel, Norrköping. Furniture. 567
27. Bodafors Stol och Mobelfabrik, Sandsjo. Furniture. 567
29. Erikson Bros., Arvika. Wardrobe and covered writing table. 567
30. Gahe Hedda, Stockholm. Curtains and technics. 568
33. Johansson, Carl O., Stockholm. Furniture. 567
34. Kule, Thora, Lund. Portieres, tapestries, etc., of Scanian textures and designs. 568
35. Lofgren, A. W., Orebro. Cabinet in renaissance style. 567
36. Lofmark, L. O., Stockholm. Cabinet, clock case, panels, etc. 572
37. Mattssons, A., Stockholm. Furniture. 572
38. Olsson, Culluf, Kjeflings. Portieres, etc., of Scanian texture and design. 568
39. Scholander, Sv., Stockholm. a Plaster mantel-piece. 570 b Stucco ceiling. 571
40. Scholdstrom, Otto, Stockholm. Furniture. 567
41. Schönow, C. L., & Co., Stockholm. Plaster-work and gilded door and panel. 670
42. Svensk Konstslodj Utställning, Stockholm. a Furniture in sixteenth century style. 567 b Portiers, etc. 568
43. Svenska Stajdforeningen, Stockholm. Suites of furnished rooms, showing development of art industry. 572
44. Svensson, C. P., Stockholm. Book and clock cases; sofa. 572
45. Widen, C. O. F., Stockholm. a Writing table. 566 b Church altar. 572

GROUP 91.
46. Bellio, Antonio, Stockholm. Table-top of mosaic work. 580
47. Ekstam, Josephine, Stockholm. Painted porcelain; pyroteic ornamented objects. 577
48. Hogaens Stenkolsbolag, The Sound. a Brick and terra cotta articles. 574 b Potterly. 575 c Fancy articles. 576
49. Kardell, Maria, Stockholm. Porcelain vase. 577
50. Kohler, T. G., Borringe. Bricks and ornamental tiles. 574
51. Minnesbergs Tegelbruks Aktiebolag, Minnesberg. Bricks and terra cotta ware. 574
52. Rorstrands Aktiebolag, Stockholm. Earthenware; porcelain, etc. 576
### DEPARTMENT H.—MANUFACTURES.

| 53. Skrombergta Stenkols & Lercindustri Aktiebolag, Ekeby. Tiles and bricks; ornaments; pipes and chimneys. | 574 |
| 54. Wallakra Stenkols Aktiebolag, Billesholm. Fire-bricks. | 574 |

**GROUP 92.**

| 55. Gossaters Sten huggeri Aktiebolag, Gossater. Mantel. | 583 |
| 56. Grafversfors Sten huggeri och Silperi, Grafversfors. | 582 |
| a | Granite monuments. | 581 |
| b | Granite ornaments. | 582 |
| 57. Lundberg, Th., Stockholm. Mantel decoration. | 583 |
| 58. Melkersons, J. A., Porfyrverk, Orsa. Porphyry ornaments. | 582 |

**GROUP 93.**

| 59. Beskow, Bernhard, Gothenburg. Buckler. | 585 |
| 60. Carlstein, P. A., Soderkoping. Brass lamp and bronze ornaments. | 585 |
| 61. Husgvarna Vapenfabriks Aktiebolag, Jönköping. Decorative arms. | 585 |
| 63. Wiklund, W., Stockholm. Iron bracket lamps. | 585 |

**GROUP 94.**

| 64. Reijmyre Bruks Aktiebolag, Reijmyre. Glassware for chemists. | 590 |
| a | | 590 |
| b | Table glassware. | 592 |
| c | Fancy glassware. | 593 |

**GROUP 96.**

| 65. Aktiebolaget Universal-Svarfverket, Stockholm. Carved umbrella and parasol handles. | 598 |
| 66. Aman, Emy, Linköping. Carved cabinet. | 598 |
| 67. Dikman, August, Falun. Carved wood album. | 598 |
| 68. Dübén, Hertha Louisa von, Stockholm. Wood carving. | 598 |
| 69. Frisk, Elisabeth, Stockholm. Cabinet and easel with portfolio. | 598 |
| 70. Johansson, Hanna, Stockholm. Carved chest, album and portfolio. | 598 |
| 71. Monthan, Maria, Stockholm. Carved chair and chest; carved wood articles. | 598 |
| 72. Netzel, Sigrid, Stockholm. Carved box. | 598 |
| 73. Reijmyre Bruks Aktiebolag, Reijmyre. Exhibition cups for museums. | 602 |
| 74. Söderberg, Euphemia, Stockholm. Carved box and portfolio. | 602 |
| 75. Svensk Konstslöjd Utställning, Stockholm. Carved articles. | 602 |

**GROUP 97.**

| 76. Carlstein, P. A., Soderkoping. Silver toilet articles. | 607 |
| 77. Eriksson, Christian, Arvika. Silver cup and cane head. | 607 |
| 78. Green, C. E., Norregard. Fancy spoons and engraved articles. | 607 |
| 79. Goldmedalsaktiebolaget, Stockholm. Silver tableware. | 607 |
| 80. Hallberg, C. G., Stockholm. a Copy of cup given to Gustavus Adolphus by Nuremberg Protestants. | 604 |
| b | Toilet set and cups; historical spoons. | 607 |
| 81. Menkaw, Anna, Stockholm. Drinking cup and goblets of copper britannia metal. | 608 |
| 82. Mollenborg, Gustaf, Stockholm. a Gold and silver articles. | 604 |
| b | Silver tableware. | 605 |
| 83. Säntesson, Fr. Abr., Stockholm. Candle-sticks, drinking-cups, goblets, etc., of pewter and britannia metal. | 608 |

**GROUP 98.**

| 84. Carlman, C. F., Stockholm. Collections of stars of Royal Swedish Orders of Knighthood. | 616 |
| 85. Hallberg, C. G., Stockholm. Silver-gilt jewelry in Swedish national style. | 616 |

**GROUP 99.**

| 86. Halsa Tickurfabriks Aktiebolag, Svängsta. Watches and parts. Timing apparatus. | 617 |
| 87. Linderoth, G. W., Stockholm. Chronometers. | 621 |

**GROUP 100.**

| 88. Almgren, K. A., Stockholm. Upholstery silk. | 629 |
| 89. Jonsson, Mrs. Hilma, Stockholm. Silk under-bodies. | 630 |
| 90. Lennings, John Vafskola, Norrkjöping. Upholstery silk; silk wall covering. | 629 |

**GROUP 102.**

| 91. Askenstrom, Catharina, Svenstorp. Unbleached cloth. | 638 |
| 92. Brunsson, Johanna, Stockholm. Linen damask table cover. | 639 |
| 93. Engestrom, Nina v., Upsala. Tablecloths, napkins, towels, aprons and carpet. | 639 |
| 94. Handarbetets Vanner, Stockholm. Counterpanes. | 639 |
| 95. Kulle, Thora, Lund. Cotton aprons. | 638 |
| 96. Olsson, Christina, Walla. Linen yarn. | 639 |
| 97. Olsson, Cilluf, Kjeflinge. Linen floor cloths. | 639 |
| 98. Sparre, Caroline, Westervik. Linen yarn. | 639 |
| 99. Sparre, Sophie, Westervik. Linen yarn. | 639 |

**GROUP 103.**

| 100. Olsson, Cilluf, Kjeflinge. a Blankets. | 642 |
| b | Woolen carpet. | 649 |
| 101. Handarbetets Vanner, Stockholm. a Upholstery goods. | 646 |
| b | Carpets. | 649 |
| 102. Bengtsson, Karna, Ystad. Carpets, technicals. | 649 |
| 103. Kulle, Thora, Lund. Woolen stuffs; woolen aprons. | 641 |
| 104. Lindgren, Annie, Stockholm. Carpets and technicals. | 649 |
GROUP 104.

105. Husgvara Vapenfabriks Aktiebolag, Jönköping. Sewing machines. 659

GROUP 105.

106. Tornlund, A., Stockholm. Bear's skin. 660

   a Carriage covers, fur rugs, etc. 661
   b Fur garments. 662

GROUP 106.


109. Askelstrom, Catharina, Svenstorp. Scanian pillow-lace. 664

110. Fickerman, Lilli, Sköde. Embroidered cushion and tablecloth. 665

111. Handarbetset Vanner, Stockholm.
   a Embroideries. 665
   b Tapestries. 670

112. Hede, Hulda, Stockholm. Artificial flowers. 666

113. Möller, Sara, Stockholm. Knitted shawls. 665

114. Nilsson, Emilie, Wermland. Linen towels; "shepherd girl's work." 665

   a Imitation Venetian lace. 664
   b Imitation Venetian lace fans. 667

116. Nordenfeldt, Maria, Gothenburg. Screen; silk embroidery. 669

117. Nordgren, Johanna, Gefle. Knitted counterpanes. 665

118. Norrman, Hilda, Geflsborg. Hem-stitched sheets. 665

119. Österholm, A., Norrköping. Vadstena and pillow-lace. 664

120. Rialing, Maria, Nassjo. Lace border for handkerchief. 664

121. Rönstrom, Hilda, Lund. Embroideries. 665

122. Rudbeck, Hildur, Upsala. Heart cushion. 669

123. Stange, Elisabeth, Stockholm. Guipure workcloth. 665


125. Uhlin, Ebba, Vadstena. Thread buttons. 668

GROUP 110.

126. Ekstrom, Josephine, Stockholm. Fancy articles of wood and leather. 695

127. Kroplien, Emma, Stockholm. Dolls in national costumes. 693

128. Santesson, Fr. Abr., Stockholm. Toys. 693

GROUP 111.

129. Lindberg, Lydia, Stockholm. Embossed leather for chairs. 705

130. Nordquist, Marianne, Stockholm. Embossed leather album. 705

131. Wrede, Hilda, & Agathe, Wexio. Embossed and gilt leather covering for chair. 705

GROUP 113.

132. Aktiebolaget Bofors Gullspang, Bofors. Ingots and shot for cannon; war materials. 716

133. Aktiebolaget Finspangs Styckebruk, Skonnarbo. Mounted cannon and shot. 716

134. Fagersta Bruks Aktiebolag, Westendorf. Gun barrels. 714

135. Husgvara Vapenfabriks Aktiebolag, Jönköping.
   a Military small arms. 714
   b Hunting carbines and guns. 718

   a Military small arms. 714
   b Heavy ordnance. 716

137. Swalling & Co., Mölntorp. Cut and thrust weapons. 717

GROUP 114.


GROUP 115.

139. Svensson, J. V., Stockholm. Oil cooking range and soldering heater. 729

   a Gas stove. 728
   b Petroleum stove. 729

GROUP 117.

141. Aktiebolaget Finspangs Styckebruk, Skonnarbo. Wire netting and wire cloth. 735

142. Jernkontar Jets Kollektivutställning, Stockholm. Wire cloth. 735

GROUP 118.

143. Aktiebolaget Finspangs Styckebruk, Skonnarbo. Horse shoes. 746

144. Degerfors Jernverk, Degerfors. Articles of sheet iron. 744

145. Jernkontar Jets Kollektivutställning, Stockholm. Horse shoes and crude forgings. 748

146. Surahammars Bruk, Aktiebolag. Bowls of pressed steel plates for milk separators, etc. 746

GROUP 119.

147. Aktiebolaget Finspangs Styckebruk, Skonnarbo.
   a Nails, tacks, etc. 747
   b Axes and implements for lumber industry. 748
   c Tools for working stone. 749
   d Files. 750
   e Sledges. 752

148. Aktiebolaget Osterby Bruk, Osterby. Blanks for machines and tools. 752

149. Berg, E. A., Eskilstuna. Razors, etc. 751

150. Dahlgren, Carl W., Eskilstuna. Scissors, razors and case knives; skates. 751

151. Engstrom, Joh., Eskilstuna. Razors and knives. 751

152. Eskilstuna Jernmanufaktur Aktiebolag, Eskilstuna. Table cutlery and shears. 751

153. Fagersta Bruks Aktiebolag, Westendorf. Sledges, springs and tools. 752
DEPARTMENT H.—MANUFACTURES.

154. Forsbacka Jernverks Aktiebolag, Forsbacka. Tools. 752
155. Hallströms Hadar Kniffabriks Aktiebolag, Eskilstuna. Pocket knives. 751
156. Hadengren & Son, Eskilstuna. Pocket knives. 751
157. Halling, A., Eskilstuna. Daggers and knives. 751
158. Heljestrand, C. V., Eskilstuna. Razors. 751
159. Hults Bruk, Aby. Axes. 748
160. Jernkontoret Kollektivutställning, Stockholm. a Builders' hardware. 747 b Axes, adzes, etc. 748 c Edge tools of various descriptions. 749
162. Liljequist, P., Eskilstuna. a Blades for planing machines. 749 b Saws. 750
163. Lindström, E.F., Eskilstuna. Tongas. 752
164. Nöesman, E. A., Eskilstuna. Locks and door handles. 747
165. Oberg, C. O., & Co., Eskilstuna. Files and rasps. 759
166. Sandvikens Kernverke Aktiebolag, Sandviken. a Band saws and uncut bands 750 b Anvils. 752
167. Soderfors Bruks Aktiebolag, Soderfors. a Files. 750 b Tools. 752
168. Sorensen, N. G., Stockholm. Locks and door handles. 747
169. Stenman, Aug., Eskilstuna. Builders' hardware. 747
170. Stora Kopparbergs Bergslags Aktiebolag, Falun. a Horse shoe nails. 747 b Tools. 752
171. Stridsberg & Biorck, Trollhättan. a Machine and plane knives. 749 b Saws and files. 750
172. Uddeholms Aktiebolag, Uddeholm. a Screws, wire nails, steel springs, horse shoe nails, etc. 747 b Sledges, hammers, locksmiths' anvils, etc. 752

GROUP 120.
173. Hoganas Stenkolsbolag, Skone. Pipes, tubes and troughs. 754
174. Skromberga Stenkols Aktiebolag, Ekeby. Sewer pipes. 754

GROUP 121.
175. Strindberg, A. G., Stockholm. Flags with flag-staffs and acorns. 756

SWITZERLAND.

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1. Andrea, Ph., Berne. Pharmaceutical products. 547
2. Society of Chemical Industry, Basle. Chemicals. 546

GROUP 94.
3. Falconi Le, Ryon. Glass-bricks for building purposes. 591

GROUP 95.
4. Kreuzer, Ad., Zurich. Stained-glass windows. 596

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5. Althaus & Cie, Meiringen. Wood carvings. 598
6. Abegglen-Seiler, Iseltwald. Wood carvings. 598
7. Abplanalp, Joh, Brienz. Wood carvings. 598
8. Abplanalp, Jakob, Brienz. Wood carvings. 598
9. Amacher, Peter, Brienzwyler. Wood carvings. 598
10. Baumann, Andreas, Brienz. Wood carvings. 598
12. Ecole de Sculpture, Brienz. Wood carvings. 598
13. Flück, Peter, Hofstetten. Wood carvings. 598
13a. Flück, Peter, Schevanden. Wood carvings. 598
14. Fuchs, Caspar, Brienz. Wood carvings. 598
15. Fuchs, Peter, Brienz. Wood carvings. 598
16. Gander-Ludi, Brienz. Wood carvings. 598
17. Gertsch, Joh, Hofstetten. Wood carvings. 598
19. Huggler-Jager, Brienz. Wood carvings. 598
20. Huggler, Joh., Brienz. Wood carvings. 598
21. Hunziker, Jak., Brienz. Wood carvings. 598
22. Knittell, Otto, Meiringen. Wood carvings. 598
23. Kehrl, Joh., Mühlestalden. Wood carvings. 598
24. Kehrl-Michel, Bönigen Wood carvings. 598
25. Michel, Christian, Ringgenberg. Wood carvings. 598
27. Michel, Peter, Bönigen. Wood carvings. 598
28. Michel-Wütrich, Brienz. Wood carvings. 598
29. Muller, Karl, Hofstetten. Wood carvings. 598
30. Rachelli, Bönigen. Wood carvings. 598
31. Roggero, Ernst, Brienz. Wood carvings. 598
32. Ruof, Peter, Brienz. Wood carvings. 598
33. Schild, Gerbrüder, Hofstetten. Wood carvings. 598
34. Schmidiger, Joseph, Brienz. Wood carvings. 598
35. Schmidiger, Anton, Brienz. Wood carvings. 598
36. Schneiter, Joh, Brienz. Wood carvings. 598
37. Schwabl, Brienz. Wood carvings. 598
38. Simon, Christoff, Brienz. Wood carvings. 598
39. Société pour l'Industrie de la Sculpture, Brienz. Wood carvings. 598
40. Stahli, Kaspar, Brienz. Wood carvings. 598
41. Wick, Jak., Brienz. Wood carvings. 598
42. Zumbrunn, Chr., Ringgenberg. Wood carvings. 598
43. Zumbrunn, Peter, Ringgenberg. Wood carvings. 598

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49. Baume, Alcide, Les Bois. Watches. 617
50. Borel & Courvoisier, Neuchatel. Watches. 617
51. Borgel, F., Geneva. Watches. 617
52. Borioz & Noguet-Boroz, Vallorbes. Files. 620
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55. Clémence-Beurret, Eugène. La Chaux-de-Fonds. Watches. 617
56. Couleur-Meuri, Ch., La Chaux-de-Fonds. Watches. 617
57. Dégallier, C., Geneva. Watches. 617
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58. Ditisheim, Maurice, La Chaux-de-Fonds. Watches. 617
59. Droz-Jeannot fils, Les Brenets. Watches. 617
60. Droz & Cie, St. Imier. Watches. 617
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62. Franchillon, Ernest, & Cie, St. Imier. Watches. 617
62a. Gendret-De la Chaux, La Chaux-de-Fonds. Watches. 617
64. Graezy, Arthur, La Ferrière. Watches. 617
65. Grobet, frères, Vallorbes. Files. 620
68. Jacoby & Cie, Geneva. Watches. 617
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70. Jeanneret, G., & E. Kocher, La Chaux-de-Fonds. Watches. 617
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74. Lecoultre, Marius, Geneva. Watches. 617
75. Leisenheimer frères, C. & E., Geneva. Mainsprings. 618
76. Matthey-Doret, Paul, Le Locle. Watches. 617
78. Monnier & Frey, Bienne. Watches. 617
79. Moré & Méroz, Geneva. Watch dials. 618
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81. Parleiry, Eugène, Geneva. Watch oil. 618
82. Patek, Philippe, & Cie, Geneva. Watches. 617
83. Perret, Ulysse, Renan. Mainsprings. 618
84. Perrenoud, Z., & fils, La Chaux-de-Fonds. Watches. 617
85. Piguet, Guillaume & Cie, Le Sentier. Watches. 617
86. Redard, H., & fils, Geneva. Watches. 617
87. Richardet, frères, La Chaux-de-Fonds. Watch-hands. 617
88. Rozat, Louis, La Chaux-de-Fonds. Watches. 617
89. Sagne, Fréd. Julian, La Neuveville. Watches. 617
90. Schweingruber, Chr., St. Imier. Main springs. 618
91. Servet, J. Marc, Geneva. Files. 620
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93. Vautier & fils, Geneva. Files. 620
94. Wagnon frères, Geneva. Watch-hands. 618
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96. Wirth, E., Geneva. Watches. 617
97. Wüllemier frères, Renan. Watches. 617
98. Wyss, J., fils, La Chaux-de-Fonds. Dials and enameled articles. 618

GROUP 108.
100. Wuetrich, E., Lyss. Pipes. 680

GROUP 117.
101. Schindler-Escher, C., Zurich. Bolting cloth for flour mills. 739

GROUP 119.
102. Grobet frères, Vallorbes. Files. 750
SIX REASONS

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1. They have been assayed by the Ohio Retail Jewelers' Association and proved to contain more gold than those of other makes.
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This line is almost endless and consists of nearly every conceivable shape, size and style. Some are set with imitation diamonds, rubies and sapphires.

COLD FRONT LOCKETS.
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These goods are of fine quality and guaranteed to give satisfaction. Some recently added have sold far beyond our expectation. They are made of heavy rolled plate in all sizes and patterns.

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Our Victoria and Princess Chains are neat and pretty. They are made in all bright, Roman and bright, platinum and bright gold, and have one or two charms.

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In solid gold and rolled plate. We are headquarters and make everything desirable in this line.

"MT. HOPE" BUTTONS.
These are superior to any button in the world. They are easy to put in and easy to take out of the cuff.

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This line has increased rapidly with us and is very low in price, embracing all styles in Roman and polished, chased, engraved and plain, with and without stones, and some in enamel.

CLOVE BUTTONERS.
We make the interlocking and one with a twist handle in gold, rolled plate and silver rolled plate.

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We make a variety of Rope Neck Chains in bright and Roman, with snaps.

BRACELETS.
We make a large stock of Curb Bracelets in five sizes, besides the graduated links, with padlocks and snaps, in chased and plain polished, Roman, rolled silver plate and solid silver. Also padlocks with keys and a push snap.

EARRINGS.
This line includes many pretty patterns in gold fronts engraved, some with pretty trimmings, and a small line of Hoop Drops.

CROSSES.
We make four sizes of gold filled, in plain, engraved and set with stones, and suitable for our neck chains.

CHARMS.
This line is adapted to ladies’ or gentlemen’s chains, and includes a number of Heart Charms in Roman, bright and satin finish, with stones and without.

PINS.
Our large line of Lace and Cuff Pins comprises many desirable patterns in gold fronts, engraved and trimmed. Also includes Baby Pins and Scarf Pins.

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Steel of every description, Forged, Rolled, etc., into any form or article desired.

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"—Engineers .... 24
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Annual Consumption of Coal .... 250,000 tons

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United Chemical Industries of Germany

For the World's Columbian Exposition in Chicago, 1893.

The Department of the United Chemical Industries of Germany covers an area of about 10,000 square feet in the German Section in the Manufactures Building. Seventy-two exhibitors are represented in this Department, among which the most important firms of the different branches of the Chemical Industry of Germany will be found.

A special Catalogue for this Department has been issued, in which the different chemical preparations on exhibit are divided into seven groups according to their specific nature. This special Catalogue is on sale at the Department of the United Chemical Industries of Germany. Price 25 cts.

Business Cards, Price Lists and Descriptive Pamphlets will be distributed gratuitously on application in the pavilion of the aforesaid exhibition.

For information apply to the General Representative, Mr. Richard F. Fischer, in this department, respectively to the Agents of the different firms.

Committee of the United Chemical Industries of Germany,

For the World's Columbian Exposition in Chicago, 1893.

The President, DR. J. F. HOLTZ,
Director of the Chemische Fabrik auf Aktion
(vorm. E. SCHERING), BERLIN-N.

Chemische Fabrik auf Aktion.

(vorm. E. SCHERING.)

The works were founded by E. Schering in 1854. The present managers are Messrs. J. F. HOLTZ, H. FINZELBERG and W. DITTMAR. The number of chemists and clerks engaged in the works is 60, that of the workingmen 450. There are 14 boilers representing 1,380 horse-power in the factory and 26 steam engines combining 375 horse-power.

The products of the factory are chemical preparations for pharmaceutical, photographic and technical purposes, of which the most important are exhibited in the Chemical Department of the German Section in the Manufactures Building.

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DEPARTMENT L--LIBERAL ARTS.

THE mass of visitors to the Fair come by rail and alight at the central point of the grounds in front of the Administration Building. Thence moving toward the lake, they pass along the broad esplanade, having on their right, first, Machinery Hall, then the Hall of Agriculture; on their left, the Hall of Mines, the Hall of Electricity; then they come to the splendid façade of the Main Building, nearly 800 feet in length, upon which appears the inscription "To the Liberal Arts."

In this department are found exhibits pertaining to education, hygiene, sanitation, charities, medicine and surgery, literature, books, libraries, journalism, physical science, engineering, architecture, government and law, commerce, social and religious organizations, music and the drama. As the central idea of the Exposition is to educate by making all displays exponents of the world's advancement, no department affords greater interest to the visitor than that of the Liberal Arts. The department occupies nearly the whole of the second or gallery floor of the grand building fronting the lake called the building for Manufactures Two of its bureaus Anthropological Music Hall at the grand basin and opposite the also included in each succeed.

Beginning with don 1851, has master of the single educational so instantly and so this is because hibit has been the nation's advance which has borne tory is that whose tion, taken in its est sense, has been Recognizing these tors of the World's sition have given position of high center of interest est of all the great Education is surrounded by her hand-maids—Music, Science, Literature, Charity, Religion—and these, grouped together, as by their nature is most fitting form the constellation of the Liberal Arts. These are the arts whose advancement has made the closing century glorious, and has made all mankind free in the light of truth and law and liberty. Very earnest expressions of demand for a separate building for Liberal Arts, or for education alone, were presented from all sections of the country before the opening of the Exposition, but a careful consideration of all the conditions has led those directly connected with the department to the belief that the present solution of the question is satisfactory, as the amount of space provided is fairly adequate, as compared to that given to other departments; its position is central, convenient, dignified and worthy, and its location, in one entire end of the great Manufactures Building, is much to be preferred above any which would have placed the department.
away from immediate association with the remainder of the Exposition—a contingency that most likely would have arisen if a separate and distinct building had been provided. This question was carefully considered by the Board of Control and an appropriation for an Educational Building was made in response to urgent requests from many educators throughout the land. An eligible site for such a building was carefully sought for but could not be found, and the purpose to erect a separate structure was abandoned, not from any lack of appreciation of the department of the Liberal Arts, or from want of interest in its work, but wholly as a matter of expediency.

The department includes twelve distinct and separate groups. The exhibits of the first group are divided between two bureaus, that of Hygeine and Sanitation, and that of Charities and Correction, and are installed in the Anthropological Building. The subjects cared for by the Bureau of Hygeine are the nursery and its accessories; athletic training and exercise; gymnasiums; food supply and its distribution; representations of dwellings and buildings characterized by the conditions best adapted to health and comfort; sanitary appliances and methods for dwelling houses, buildings and cities; hygiene of the workshop and factory, modified from that of the London Health Exhibition; sanitary supervision, including quarantine and the isolation of contagious diseases. The Bureau of Charities and Correction presents matters pertaining to the sick and the needy; asylums, homes, hospitals, dispensaries; appliances for the transportation and relief of the sick and wounded. Prison management and discipline; models and specimens of police stations, houses of correction, reform schools, dress and equipment of prisoners, samples of convict workmanship; the Bertillon system of personal measurements, etc.

In the second group come instruments and apparatus of medicine, surgery and prosthesis, including drugs and medicines, dietetic preparations intended for the sick, instruments for physical diagnosis, surgical instruments, artificial limbs and dental apparatus. This group is arranged in the north end of the gallery floor. Primary, secondary and superior educational statistics, apparatus and appliances are exhibited in a group, wherein are shown infant schools and kindergartens; text books, diagrams and specimens of work in elementary schools; specimens of domestic and industrial training for girls; handicraft teaching in schools for boys; specimens of school work in chemistry, physics, mechanics, etc.; art work, modeling, etc.; results of industrial work; exhibits of elementary instruction of Indians; schools for the deaf, blind, and feeble-minded; statistics, methods of instruction in public schools; descriptions and statistics of academies and high-schools; buildings, libraries, museums, courses of study, etc., pertaining to colleges and universities; various branches of professional schools, such as law, theology, pharmacy, mining, military, commercial, etc. Distinct exhibits are presented by thirty States and Territories; about forty colleges and universities, including six for women, and seven distinctively for the colored race, more than thirty normal schools; a series of manual training and trade schools; sixteen art schools; collective exhibits from thirty business colleges; fifty schools for the deaf; schools for the blind; schools for those of feeble mind, etc. An extended exhibit shows the work of the schools conducted under the control of the Catholic church. Educational exhibits are presented by the School Board of London; from New South Wales, and Canada; from the Governments of France, Russia, Austria, Mexico and Brazil; a very complete exhibit prepared under the orders of the Imperial Minister of Education of Germany. The exhibits from the United States occupy about 175,000 feet on the south end of the gallery floor; the foreign exhibits occupy nearly 50,000 feet beside.

In the group of literature and books are found exhibits of miscellaneous and educational publications; the great magazines; engraving, lithographing; maps and charts, etc. Then come instruments of precision; weights and measures; astronomical instruments, including the great refractor of forty inches aperture;
geodetic, hydrographic, meteorological, optical, acoustic and chronometric instruments; photographic apparatus and a gallery of photographs. Architectural drawings, specifications for foundations, walls, partitions, floors, roofs and stairways; contrivances for safety, comfort and convenience in the manipulation of elevators, doors and windows; working plans for hoisting, handling and delivering building materials, for paving and draining, etc. Statistics and publications of religious organizations and systems, showing the origin, nature, growth and extent of various religious systems and faiths; maps and reports of missionary societies, missions and missionary work; bible societies, tract societies and other publications.

In the group including music and the drama an interesting collection of instruments and literature pertaining to these arts is to be seen. Here are exhibited crude and curious instruments; music books and scores; drums, tambourines, cymbals, triangles, gongs, castanets; music boxes; lutes, guitars, banjos and mandolins; harps and lyres; zithers, dulcimers: violins, the viol, viola, viola da gamba, viola di amore, the violoncello and the bass viol; the piano-forte—square, upright and grand—actions and parts of a piano; the predecessors of the piano—clavicytherium, clavicymbal, clavichord, manichord, virginal, spinet, harpsichord and hammer harpsichord; street pianos; the flute, flute-a-bec, syrinx, organ pipes, flageolet, clarionet, oboe and saxophone; the trumpet (simple) and the bugle (oliphant), alpenhorn; the trombone (with slide and with finger-holes); the serpent, bassoon and bag-pipe; key bugles, cornets, French horns, cornopeans, orphicleides; reed organs, melodeons and harmonicas; accordions, concertinas and mouth organs; hand organs and organettes; automatic organs, orchesttrions; strings, reeds, bridges; mechanical devices for the orchestra, etc. The grand pipe organ in the Music Hall is part of this exhibit, as are also the chime of bells in the central tower, and the chime in on one of the towers of Machinery Hall.

The Bureau of Music was a branch of the Department of Liberal Arts committed to the charge of three officers, viz.: The musical director, Mr. Theodore Thomas, the choral director, Mr. William L. Tomlins, and a secretary, Mr. George H. Wilson. Mr. Thomas is the senior in authority of the bureau, and has as his special province the orchestral features of the music for the Exposition, and the bands which are provided for concerts in the halls and in the open air upon the grounds. The choral features of the music are under the direction of Mr. Tomlins, who has organized the assemblages of choruses from various cities of the Union for the choral festivals in the Music Hall and Festival Hall of the Exposition. The secretary of the bureau, Mr. Wilson, has charge of the business matters connected therewith, the preparation of contracts, the making of dates for the various concerts and festivals, the promulgation of information relative thereto and of the programmes.

The Committee on Liberal Arts of the Board of Directors, through its chairman, Mr. James W. Ellsworth, supervises the work of this bureau, and the expenditure of the large sums of money which the board has appropriated for the purpose of rendering the music of the Exposition equal to the representation of the other arts upon the grounds.
In memory of the first Piano manufactured by JONAS CHICKERING in 1823, we have made none but the

:: HIGHEST GRADE PIANOS ::

And with an experience of SEVENTY years, an unquestioned reputation, and every facility for the best and most durable work, we confidently assert that our productions of the present year are the finest we have ever offered, and represent both in exterior finish, action and quality of tone, the highest excellence in Piano manufacture.

We solicit for them the critical examination of the musical profession and the public.
CLASSIFICATION.

LIBERAL ARTS DEPARTMENT (L).

LIBERAL ARTS—EDUCATION, LITERATURE, ENGINEERING, PUBLIC WORKS; MUSIC AND THE DRAMA.

GROUP 147.

PHYSICAL DEVELOPMENT, TRAINING AND CONDITION—HYGIENE.

Class 824. The nursery and its accessories.

Class 825. Athletic training and exercise. Gymnasiums; apparatus for physical development and of gymnastic exercises and amusement; skating, walking, climbing, ball-playing, wrestling, acrobatic exercises; rowing, hunting, etc. Special apparatus for training in schools, gymnasias; apparatus for exercise, drill, etc.

Class 826. Appliances—food supply and its distribution; adulteration of food, markets, preparation of food, cooking and serving, school kitchens and arrangements for school canteens, methods of warming children's meals, etc. Dinner-pails, or receptacles for carrying meals for school children, working men, and others. Restaurants, dining halls, refectories, etc.

Class 827. Dwellings and buildings characterized by the conditions best adapted to health and comfort, including dwellings for working men and factory operatives, houses and villages for operatives in connection with large manufacturing establishments, tenement houses, "flats," and suits of apartments, city and country residences, club-houses, school-houses; designs and models of improved buildings for elementary schools, infant schools and crèches, court-rooms, theatres, churches, etc.

Class 828. Hotels, lodging-houses.


Apparatus for carrying off, receiving and treating sewage. Slaughter-house refuse, city garbage.

Apparatus and methods for filtering water and cleansing water-courses.

Apparatus intended for the prevention of infectious diseases. Methods, materials and instruments for purifying and destroying germs, disinfectors.

Apparatus and fittings for warming, ventilating, and lighting schools; school latrines, closets, etc.

Special school fittings for storing and drying clothing.

Precaution in schools for preventing the spread of infectious diseases; school sanitary, infirmaries, etc.

Class 830. Hygiene of the workshop and factory.—(Classification modified from that of the London Health Exhibition.)

Designs and models for improvement in the arrangement and construction of workshops, especially those in which dangerous or unwholesome processes are conducted.

Apparatus and fittings for preventing or minimizing the danger to health or life from carrying on certain trades. Guards, screens, air-jets, preservative solutions, washes, etc.

Objects of personal use.—Mouth-pieces, spectacles, dresses, hoods, etc., for use in certain unhealthy and poisonous trades.

Illustrations of diseases and deformities caused by unwholesome trades and professions; methods of combating these diseases; preservative measures, etc.

Sanitary construction and inspection of workshops, factories and mines; new inventions or improvements for ameliorating the condition of life of those engaged in unhealthy occupations; means for economizing human labor in various industrial operations.

Class 831. Asylums and homes.—Asylums for infants and children; foundling and orphan asylums; children's aid societies. Homes for aged men and women; for the maimed and deformed; for soldiers and for sailors.

Treatment of paupers; almshouses.

TREATMENT OF ABORIGINES. Indian reservations and homes.

Class 832. Hospitals, dispensaries, etc.; plans, models, statistics. Shed hospitals for infectious fevers and epidemic diseases; tent hospitals; hospital ships; furniture and fittings for sick rooms.
Class 833. Protective supervision.—Sanitary supervision; vaccination and its enforcement; isolation of contagious diseases; quarantine; prevention and elimination of animal epidemics.

Food inspection.—Treatment of adulterated foods; inspection and analysis; treatment of stale food substances; regulation of abattoirs, mills, etc.; regulation of sale of horses; protective devices.

Building inspection, etc.—Building regulations and inspection; building drainage and plumbing; fire regulations, fire escapes, etc.

Personal inspection.—Color tests, etc.; professional examination for licenses.

Immigration.—Reception, care and protection of immigrants.

GROUP 148.

INSTRUMENTS AND APPARATUS OF MEDICINE, SURGERY AND PROSTHESIS.

Class 834. Pharmacology, drugs, pharmacy, etc.—Medicines, official (in any authoritative pharmacopoeial) articles of the materia medica, preparations unofficial. (See Group 87.)

Class 835. Dietetic preparations intended especially for the sick. (For beef extracts see Class 88.)

Class 836. Instruments for physical diagnosis, clinical thermometers, stethoscopes, ophthalmoscopes, etc.

Class 837. Surgical instruments, appliances and apparatus, with dressings, anaesthetics, anti-septics; obstetrical instruments, etc.

Class 838. Prosthesis.—Apparatus for correcting deformities; artificial limbs.

Class 839. Instruments and apparatus of dental surgery and prosthesis.

Class 840. Vehicles and appliances for the transportation and relief of the sick and wounded, during peace or war, on shore or at sea. (See also Department G.)

GROUP 149.

PRIMARY, SECONDARY AND SUPERIOR EDUCATION.

Class 841. Elementary instruction.—Infant schools and kindergartens. Descriptions of the methods of instruction, with statistics.


Class 843. Domestic and industrial training for girls.—Models and apparatus for the teaching of cookery, housework, washing and ironing, needle-work, and embroidery, dress-making, artificial flower-making, painting on silk, crockery, etc. Specimens of school work.

Class 844. Handicraft teaching in schools for boys.—Apparatus and fittings for elementary trade teaching in schools. Specimens of school work.

Class 845. Science teaching.—Apparatus and models for elementary science instruction in schools. Apparatus for chemistry, physics, mechanics, etc.; diagrams, copies, text-books, etc.; specimens of the school work in these subjects.

Class 846. Art teaching.—Apparatus, models and fittings for elementary art instruction in schools; diagrams, copies, text-books, etc.; specimens of art work, modeling, etc., in schools.

Class 847. Technical and apprenticeship schools.—Apparatus and examples used in primary and secondary schools for teaching handicraft; models, plans and designs for the fitting up of workshop and industrial schools; results of industrial work done in such schools.

Class 848. Special schools for the elementary instruction of Indians.

Class 849. Education of defective classes.—Schools for the deaf, dumb, blind, and feebleminded; adult schools for the illiterate.

Class 850. Public schools.—Descriptions, illustrations, statistics, methods of instruction, etc.

Class 851. Higher education.—Academies and high schools. Descriptions and statistics. Colleges and universities.—Descriptions, illustrations of the buildings, libraries, museums, collections, courses of study, catalogues, statistics, etc.

Class 852. Professional schools.—Theology, law, medicine and surgery, dentistry, pharmacy; mining, engineering, agriculture, mechanic arts; art and design, military, naval, normal, commercial; music.


GROUP 150.

LITERATURE, BOOKS, LIBRARIES, JOURNALISM.

Class 854. Books and literature, with special examples of typography, paper, and binding.

General works.—Philosophy, religion, sociology, philology, natural sciences, useful
 arts, fine arts, literature, history, and geography; cyclopedias, magazines, and newspapers; bindings, specimens of typography.

Class 855. School books.
Class 856. Technical industrial journals.
Class 857. Illustrated papers.
Class 858. Newspapers and statistics of their multiplication, growth and circulation.
Class 859. Journalism, statistics of; with illustrations of methods, organization and results.
Class 860. Trade catalogues and price-lists.
Class 861. Library apparatus; systems of cataloguing and appliances of placing and delivering books.
Class 862. Directories of cities and towns.
Class 863. Publications by governments.
Class 864. Topographical maps. Marine and coast charts; geological maps and sections; botanical, agronomical, and other maps, showing the extent and distribution of men, animals and terrestrial products; physical maps; meteorological maps and bulletins; telegraphic routes and stations, railway and route maps; terrestrial and celestial globes, relief maps and models of portions of the earth's surface, profiles of ocean beds and routes of submarine cables.

**GROUP 151.**

**INSTRUMENTS OF PRECISION, EXPERIMENT, RESEARCH, AND PHOTOGRAPHY. PHOTOGRAPHS.**

Class 865. Weights, measures; weighing and metrological apparatus—Balances of precision, instruments for mechanical calculation, adding machines, pedometers, cash registers, water and gas meters, etc.; measures of length, graduated scales, etc. (For ordinary commercial forms, see also Group 112.) (For testing machines, see Class 490.)

Class 866. Astronomical instruments and accessories—Transits, transit circles, mural circles, zenith sectors, altazimeters, equatorial, collimators, comet-seekers.

Class 867. Geodetic and surveying instruments—Transits, theodolites, artificial horizons, surveyor's compasses, goniometers; instruments for surveying underground in mines, tunnels, and excavations; pocket sextants, plane tables, and instruments used with them; ship's compasses, sextants, quadrants, repeating circles, dip-sectors, etc.

Class 868. Leveling instruments and apparatus—hand-levels, water-levels, engineer's levels, of all patterns and varieties; cathetometers, leveling staves, targets, and accessory apparatus.

Class 869. Hydrographic surveying; deep sea sounding.
Class 870. Photometric apparatus and methods.
Class 871. Photographic apparatus and accessories. Photographs.
Class 872. Meteorological instruments and apparatus, with methods of recording, reducing and reporting observations. Thermometers—mercurial, spirit, air; ordinary or self-registering, maximum and minimum. Barometers—mercurial, aneroid; anemometers, rain gauges, etc.

Class 873. Chronometric apparatus—Chronometers, watches of precision, astromonomical clocks, church and metropolitan clock, clepsydras, hour-glasses, sun-dials, chronographs, electrical clocks, metronomes. (For commercial clocks and watches, see also Group 90.)

Class 874. Optical and thermometric instruments and apparatus.
Class 875. Electric and magnetic apparatus. (See also Department J.)
Class 876. Acoustic apparatus.

**GROUP 152.**

**CIVIL ENGINEERING, PUBLIC WORKS, CONSTRUCTIVE ARCHITECTURE.**

Class 877. Land surveying, topographical surveying.—Surveys and locations of towns and cities, with systems of water supply and drainage.
Class 878. Surveys of coast, rivers, and harbors.
Class 879. Construction and maintenance of roads, streets, pavements, etc.
Class 880. Bridge engineering (illustrated by drawings and models.)
Bridge designing.—Drawings and charts, showing methods of calculating stresses. Foundations, piers, abutments and approaches of stone, wood, etc.
Arch bridges of stone, wood or iron.
Suspension bridges of fibre, iron, chain and cable.
Truss bridges of wood, iron and steel.—Pony, bow-string and plate girders, lattice girders, Fink, Bollman, Howe, Pratt, Warren, Post, Long, Whipple and other trusses of special design.
Cantilever bridges, draw-bridges, rolling and swinging machinery.
Tubular bridges.
Railway, aqueduct, and other bridges of special design not elsewhere classed.
Class 881. Subaqueous constructions.—Foundations, piers, harbors, break-waters, building of dams, water-works, and canals.
Class 882. Irrigation.—Irrigating canals and systems.
Class 883. Railway engineering.—Surveying, locating and constructing railways.
Class 884. Dynamic and industrial engineering.—The construction and working of machines; examples of planning and construction of manufacturing and metallurgical establishments.
Class 885. Mine engineering.—Surveying underground, construction of tunnels, subaqueous tunnels, etc.; locating and sinking shafts, inclines, and winzes; driving levels, draining, ventilating, and lighting. (See also Department E.)
Class 886. Military engineering.—Construction of earth-works, breast-works and temporary fortifications.
Class 887. Permanent works.—Fortifications, magazines, arsenals, mines.
Class 888. Roads, bridges, pontoons, etc.; movement of troops and supplies.
Class 889. Constructive architecture.—Plans of public buildings for special purposes; large and small dwelling houses.

Drawings and specifications for foundations, walls, partitions, floors, roofs, and stairways.
Estimates of amount and cost of material.
Designs and models of special contrivances for safety, comfort, and convenience in the manipulation of elevators, doors, windows, etc.
Working plans for the mason, carpenter and painter; designs and models of bonds, arches, coping, vaulting, etc.; plastering and construction of partitions; painting and glazing.
Plans of appliances for hoisting, handling and delivering building materials to artisans.—Scaffolding and ladders, special scaffolding for handling great weights; portable cranes and power elevators.
Illustrations of the strength of materials.
Plans and sections of special architectural forms. Metallic floor beams and girders; hollow bricks and other architectural pottery for heating and ventilation; metallic cornice and conduits, shingles and sheathing, glass roofs, floors and accessories, architectural hardware.
Methods of combining materials.
Protection of foundations, areas and walls against water.
Working plans for paving and draining.

GROUP 153.
GOVERNMENT AND LAW.

Class 890. Various systems of government illustrated.—Government departments, legislative, executive, and judicial.
Class 891. International law and relations.—Fac-similes of treaties, etc.
Class 893. Postal systems and the appliances of the postal service. Letter-boxes, pouches, mail-bags, postage stamps, etc.
Class 894. Punishment of crime.—Prisons and reformatories, prison management and discipline, transportation of criminals, penal colonies, houses of correction, reform schools, naval or marine discipline, punishment at sea, police stations, night lock-ups, etc.; dress and equipment of prisoners, examples of convict workmanship.

GROUP 154.
COMMERCE, TRADE AND BANKING.

Class 895. History and statistics of trade and commerce.
Class 896. Railway and transportation companies.
Class 897. Methods and media of exchange.—Money, coins, paper money, etc.
Class 898. Counting houses, stores, and shops.—Arrangement, furniture fittings; methods of management, book-keeping, devices for distributing change and goods to customers.
Class 899. Warehouse and storage systems.—Grain elevators.
Class 900. Boards of Trade and their functions illustrated.
Class 901. Exchanges for produce, metals, stocks, etc.
Class 902. Insurance companies.
Class 903. Banks and banking.—Illustrations of buildings, interiors, methods, and statistical information; clearing-houses, etc.; savings and trust institutions.
Class 904. Safes and vaults for storage of treasure and valuables; safe deposit companies.
Class 905. Book-keeping.—Books and systems of book-keeping and accounting, commercial blank forms, etc.
Class 906. Express companies, freighting, etc.
GROUP 155.

INSTITUTIONS AND ORGANIZATIONS FOR THE INCREASE AND DIFFUSION OF KNOWLEDGE.

Class 907. Institutions founded for the increase and diffusion of knowledge, such as the Smithsonian Institution, the Royal Institution, the Institute of France, British Association for the advancement of Science, and the American Association, etc., their organization, history and results.

Class 908. Academies of science and letters.—Learned and scientific associations, geological and mineralogical societies, etc.; engineering, technical, and professional associations; artistic, biological, zoological, medical, astronomical societies and organizations.

Class 909. Museums, collections, art galleries, exhibitions of works of art and industry; agricultural fairs, state and county exhibitions, national exhibitions, international exhibitions, international congresses.

Class 910. Publication societies.

Class 911. Libraries—public and private; statistics of operations.

GROUP 156.

SOCIAL, INDUSTRIAL, AND CO-OPERATIVE ASSOCIATIONS.

Class 912. Social organizations.—Clubs—political, military, university, travelers; press clubs, science clubs, and others.

Class 913. Political societies and organizations.

Class 914. Workingmen's unions and associations. Their organization, statistics, and results.

Class 915. Industrial organizations.

Class 916. Co-operative trading associations.

Class 917. Secret societies.

Class 918. Miscellaneous organizations for promoting the material and moral well-being of the industrial classes.

GROUP 157.

RELIGIOUS ORGANIZATIONS AND SYSTEMS—STATISTICS AND PUBLICATIONS.

Class 919. Religious organizations and systems.—Origin, nature, growth, and extent of various religious systems and faiths. Statistical, historical and other illustrations; pictures of buildings; plans and views of interiors.

Class 920. Religious music, choirs, hymnology.

Class 921. Missionary societies, missions, and missionary work; maps, reports, statistics.

Class 922. Spreading the knowledge of religious systems by publications; Bible societies, tract societies, and their publications.

Class 923. Systems and methods of religious instruction and training for the young; Sunday-schools, furniture, apparatus and books.

Class 924. Associations for religious or moral improvement.

Class 925. Charities and charitable associations connected with ecclesiastical societies.

GROUP 158.

MUSIC AND MUSICAL INSTRUMENTS—THE THEATRE.


Class 928. Stringed instruments played with the fingers or plectrum. Lutes, guitars, banjos and mandolins. Harps and lyres. Zithers, dulcimers.

Class 929. Stringed instruments played with the bow. The violin. The viol, viola, viola da gamba, viola di amore. The violincello and the bass viol. Mechanical instruments.—Hurdy-gurdy and violin piano.

Class 930. Stringed instruments with key-board.—The piano-forte—square, upright and grand. Actions and parts of a piano. The predecessors of the piano.—Clavicytherium, clavicymbal, clavichord, manichord, virginal, spinet, harpsichord, and hammer harpsichord.
Instruments and methods of manufacture.

Street pianos.

Class 931. Wind instruments, with simple aperture or plug mouthpiece. The flute, flute-a-bec. Syrinx. Organ-pipes. Flageolet.

Class 932. Wind instruments, with mouthpiece regulated by the lips. The clarionet, oboe and saxophone.

Class 933. Wind instruments with bell mouthpiece, without keys. The trumpet (simple) and the bugle. Ophipant. Alpenhorn. The trombone (with slide and with fingerholes). The serpent, bassoon and bag-pipe.

Class 934. Wind instruments with bell mouth-piece, with keys. Key 'bugles, cornets, French horns. Cornopeans, orphicleides.

Class 935. Wind instruments with complicated systems.

The pipe organ.

Reed organs, melodeons and harmonicas.

Accordions, concertinas and mouth organs.

Hand organs and organettes. Automatic organs, orchestrions, etc.

Class 936. Accessories of musical instruments—strings, reeds, bridges.

Conductor's batons, drum-majors' staves. Mechanical devices for the orchestra.

Tuning forks, pitch-pipes, metronomes, music stands, etc.


Concerts and the concert stage.

The opera. The oratorio. Masses.

Church music and sacred music of all periods. Hymnology, ballads, folk-song, and folk-music of all lands. National airs.

Class 938. The theatre and the drama. The stage. Plans and models of stages and theatres.

History of the drama, so far as can be shown by literary record. Portraits of actors. Relics of actors.

Playbills, etc. Costumes, masks, armor. Scenery. Appliances of illusion, etc.

Plays of all ages and peoples.


Department B.--Liberal Arts.

UNITED STATES.

GROUP 147.

Physical Development, Training and Condition—Hygiene.

Exhibits in this group are installed in the Anthropological Building.

3. American Sporting Goods Company, St. Louis, Mo. Whitley exercises. E-S-6 825
4. Automatic Fountain Company, Canton, Ohio. Fountain air purifier. E-S-4 829
7. Benson, B. S., Baltimore, Md. Air purifiers and filters. E-S-4 829
12. Cram, A. W., Haverhill, Mass. Clean-out for drains, etc. E-S-4 829
   a Models of garbage and crematory furnaces. E-S-5 829
   b Plan of quarantine hospital. 833
   a An iron or brick fire closet for domestic waste. Hospital furnace for infectious material. E-S-3 829
   b Garbage cremators for city use. School fire closet. (Out-door exhibit.)
18. Guenantin, Jean Marie, Chicago. Models, maps and drawings of suggested plan for sewerage of Chicago. E-V-1 829
19. Hess, Geo. H., Company, Chicago. Apparatus, models, and plans showing mode of ventilating and warming houses, etc. E-S-9 829
28. Maine State Board of Health, Augusta, Me. Charts and plans relating to school-houses. Sec. E 833
29. Massachusetts State Board of Health, Boston. Analytical work in food adulterations, water, etc. E-V-5 833
31. Medical and Surgical Sanitarium, Battle Creek, Mich. Economic and hygienic dress for women, apparatus for anthropometry and physical training. E-S-6 825
33. Miller, Chas. H., Pittsburgh. Appliances for cleaning water mains. E-S-4 829
34. Minnesota State Board of Health, Red Wing, Minn. Charts, diagrams and publications illustrating protection and sanitary work. Wing frames, Sec. E 823
DEPARTMENT L.—LIBERAL ARTS.

37. New York State Board of Health, Albany, N. Y. Maps, drawings and publications relating to public health. Sec. E 833

38. New Jersey State Board of Health, Trenton, N. J. Specimens of adulterations of foods and drugs; maps and publications. Sec. E 839


40. Pennsylvania State Board of Health, Philadelphia. Portable bacteriological outfit; charts, publications, etc. Sec. E 833

41. Philadelphia County Women's Committee, Philadelphia. A model workman's dwelling. (N. E. end of Midway Plaisance.) 827

42. Remington, Cyrus K., Buffalo, N. Y. Photographs of the Buffalo crematory. E-S-5 829


44. Stone, Peter, Los Angeles, Cal. Water filters and coolers. E-T-5 826


46. Tennessee State Board of Health, Nashville, Tenn. Models, plans and charts illustrating sanitary condition of Tennessee. Sec. E 833

47. Wahl, Albert, Chicago. Health apparatus E-S-6 825


GROUP 148.

Instruments and Apparatus of Medicine, Surgery and Prosthesis.


66. Canton Surgical & Dental Chair Co., Canton, Ohio. a Surgical chairs and appliances. 837. b Dental chairs and appliances. 839


   Gal. D, D-99 888
   Gal. D, D-98 884
   Gal. E, K-103 837
   Gal. E, I-101 839
   Gal. E, H-103 837
   a Surgical appliances. 837
   b Artificial limbs. 838
   c Invalid vehicles. 840
   Gal. D, C-103 838
   Gal. E, Truss H-101 838
   Gal. D, F-99 834
   a Surgical appliances. 837
   b Trusses and supporters. 838
107. Reed & Carrick, New York. 
   a Pharmaceutical preparations. 834
   b Food preparations. 835
   Gal. E, H-102 837
   Gal. E, I-101 839
110. Roy, F., St. Omer, N. Y. Surgical instruments and apparatus. 
   Gal. E, G-102 837
   Gal. F-U-103 837
   Gal. E, K-103 837
   Gal. D, D-96 884
   Gal. D, F-94 834
116. Stearns, Frederick & Co., Detroit, Mich. Pharmaceutical preparations, toilet articles, etc. 
   Gal. D, E-98 884
117. Storrs Air Pad Truss Company, Chicago. Air pats, supporters, etc. 
   Gal. D, D-102 838
   Gal. D, F-98 835
   Gal. D, E-94 834
120. Tracy, Edward A., South Boston, Mass. 
   a Surgical splints. 837
   b Surgical jackets. 838
121. Trux, Chas., Greene & Co., Chicago. Surgical instruments and appliances. 
   Gal. E, F-103 887
   Gal. D, F-99 834
   Gal. D, D-101 834
124. Western Leather Manufacturing Company, Chicago. Medicine cases, etc. 
   Gal. E, I-102 837
   Gal. E, H-101 839
   Gal. E, K-101 839
127. Winkley Artificial Limb Company, Minneapolis, Minn. Artificial limbs. 
   Gal. D, D-103 833
   Gal. D, D-94 834
   Gal. D, E-98 834

GROUP 149.

Primary, Secondary and Superior Education.

130. Air Brush Manufacturing Company, Rockford, Ill. Air brush and paintings produced with it. 
   Gal. E, K-103 846
   a Common school products. 842
   b Technical and trade school products. 847
   c Agricultural school products. 852
132. Amherst College, Amherst, Mass. Photographs, plans, books, etc. 
   Gal. K, O-6 851
136. Atlanta University, Atlanta, Ga. Industrial work, photographs, charts, etc. Gal. I, U-1 851
141. Brown University, Providence, R. I. Photographs, course of study, specimens of mechanical work, etc. Gal. K, R-1 851
144. Carleton College, Northfield, Minn. Stellar photography, charts, views, etc. Gal. A, A-7 851
155. Colgate University, Hamilton, N. Y. Photographs, publications, etc. Gal. K, K-6 851
156. Colorado State Agricultural College, Fort Collins, Col. Drawings, manual and laboratory work, publications, etc. Gal. A, D-17 852
159. College of New Jersey, Princeton, N. J. Books, manuscripts, models, photographs, etc. Gal. K, N-6 851
163. Franklin College, Franklin, Ind. Manuscripts, apparatus, etc. Gal. I, Z-7 851
165. Hahmemann Medical College and Hospital, Philadelphia. Anatomical specimens, views of college, etc. Gal. I, Z-6 852
166. Hamilton College, Clinton, N. Y. Books, astronomical charts, etc. Gal. K, K-6 851
167. Hamline University, St. Paul, Minn. Photographs, charts, written work, books, etc. Gal. A, A-7 851
170. Indiana State Normal School, Valparaiso, Ind. Maps, charts, etc. Gal. I, Z-7 852
171. Indian Industrial School, Carlisle, Pa. Work, photographs, courses of study, etc. Gal. I, Z-7 848
172. Indiana University, Bloomington, Ind. Maps, charts, books, etc. Gal. I, Z-7 851
178. Kansas State Normal Sch'l, Emporia, 

179. Maine State College, Orono, Me. 
Collections, analyses, shop-work, etc. 
Gal. K, O-1 851

180. Manual Training School of Washing-
ton University, St. Louis. Drawings and 
shop-work. Gal. K, Q-1 847, 851

181. Martin, Kate Byam, Chicago. Form 
and color work. Gal. A, D-21 846

182. Massachusetts Institute of Technol-
yogy, Boston. Books, theses, apparatus, shop-work, etc. 
Gal. K, Q-6 851

183. Massachusetts Normal Art School, 
Boston. Students' work. 

184. Massachusetts State Normal Schools. 
Collective exhibit from schools at Bridg-
ewater, Framingham, Salem, Westfield, and 
Worcester. Gal. K, O-1 852

185. McClelland, Mary A., Albany. Edu-
cational invention, ocular demonstrator. 
Gal. F-U-103 842

186. Michigan State Normal School, Ypsi-
lan, Mich. Students' work. 
Gal. I-U-1 852

187. Michigan Agricultural College, Agri-
cultural College, Mich. Products of fields, 
shops, laboratories, class-rooms, etc. 
Gal. I, U-6 852

188. Milton Bradley Company, Spring-

a Kindergarten materials. 841
b Manual training materials. 844

c Scientific materials. 845
d Drawing materials. 846

189. Minneapolis School of Fine Arts, 
Minneapolis, Minn. Students' work. 
Gal. A, F-15 846

190. Minnesota State Normal Schools. 
Collective exhibit from schools at Man-
kato, Moorhead, St. Cloud. Students' work. 
Gal. A, A-7 852

191. Mt. Holyoke College, South Hadley, 
Mass. History, photographs, students' work, etc. 
Gal. K, O-6 851

192. Museum of Fine Arts, Boston. Stu-
dents' work. Gal. A, Truss, F-19 846

193. National Catholic Educational Ex-
hibit. Educational exhibits. 
Gal. I, V-17-28 841, 847, 851, 852

194. National Eclectic Medical Associa-
tion, Chicago. Books, diplomas, medicines, etc. 
Gal. I, Z-4 852

195. National Kindergarten Normal Insti-
tute, Washington, D. C. Children's work. 
Gal. A-D-23 841

196. Nebraska State University, Lincoln, 
Neb. Laboratory exhibit, views, charts, etc. 
Gal. A, D-8 851

197. New York College for the Training of 
Teachers, New York. Graduated course in 
manual training. Gal. K, M-6 852

198. New York State Normal Schools. 
Collective exhibit from schools at Cort-
land, Fredonia, Oneonta, Oswego, and 
Plattsburg. Gal. K, L-6 852

Students' work, courses of instruction, etc. 
Gal. I, truss T-11 847

200. Oberlin College, Oberlin, Ohio. Views, 
diagrams, books, etc. Gal. I, truss T-11 851

201. Ogontz School, Ogontz, Pa. Pict-
ures, casts, specimens, schedules, etc. 
Gal. K, F-10 851

202. Ohio Normal University, Ada, O. 
Students' work. Gal. I, T-11 852

203. Ohio Wesleyan University, Delaware, 

204. Pennsylvania Academy of Fine Arts, 
Philadelphia. Students' work. 
Gal. A, F-11 846

205. Pennsylvania Museum and School of 
Industrial Art, Philadelphia. Students' work. 
Gal. A, F-11 846

206. Pennsylvania State College, State 
College, Pa. History, maps, apparatus, students' work, etc. 
Gal. K, F-8 851

207. Pennsylvania State Normal Schools. 
Collective exhibit from schools at Blooms-
burg, Indiana, Kutztown, Slippery Rock and West Chester. 
Gal. K, E-6 853

208. Philadelphia School of Design for 
Women, Philadelphia. Students' work. 
Gal. A, Truss, F-11 846

209. Polytechnic Institute, Brooklyn, N. Y. 
Drawings, photographs, manuscripts, etc. 
Gal. K, L-1 851

Models, text-books, drawings, materials, etc. 
Gal. A, E-8 853

211. Pratt Institute, Brooklyn, N. Y. 
am Manual work. 843, 844
bm Science teaching. 845
c Industrial and fine art. 846
cd Technical and trade work. 847
d Literary work. 848

ded Technical and trade work. 847

e Industrial and fine art. 846

212. Purdue University, La Fayette, Ind. 
Shop-work, models, apparatus, theses, etc. 
Gal. I, Z-7 851

213. Rensselaer Polytechnic Institute, 
Troy, N. Y. Work of students and gradu-
ates. Gal. K, G-1 852

214. Ripley, Mrs. E. C., Hartford, Conn. 
Designs for wall paper. Gal. F, U-103 848

215. Ripon College, Ripon, Wis. Photog-
raphs, students' work, catalogues, etc. 
Gal. A, D-7 851

216. Rochester Athenæum & Mechanics' 
Institute, Rochester, N. Y. Drawings, 
paintings, modeling, etc. Gal. K, M-1 846

217. School of Fine Arts, Jacksonville, Ill. 
Students' work. Gal. A, F-15 846

218. School of Fine Arts, St. Louis. Stu-
dents' work. Gal. A, F-19 846

219. School of Industrial Art and Techni-
cal Design for Women, New York. 
Gal. A, F-15 846

Pictures and pamphlets. Gal. K, O-6 851

221. South Dakota, State of. Educational 

222. Spring Garden Institute, Philadelphia. 
Drawings, paintings, wood and metal 
work, etc. Gal. A, F-11 846, 847

223. St. John's College, Annapolis, Md. 
Students' work, photographs, catalogues, etc. 
Gal. I, V-7 851

224. State of Arkansas. Educational ex-
hibit. Gal. A, Z-17 850

225. State of Colorado. Educational ex-

exhibit. Gal. K, U-6 850
52. Toledo Manual Training School, Toledo, Ohio. Shop-work exercises, sewing, drawings, photographs, etc. Gal. K, R-1 847, 851
56. University of Minnesota, Minneapolis, Minn. Photographs, charts, students' work, etc. Gal. A, A-7 851
63. Vassar College, Poughkeepsie, N. Y. Photographs, books, methods, etc. Gal. K, K-6 851
64. Way, Miss Leota, Harris, Col. Designs for wall paper. Gal. F-U-103 846
68. Willamette University, Salem, Ore. Students' work. Gal. A, D-17 851
72. Wisconsin State University, Madison, Wis. Work of students and graduates, photographs, etc. Gal. A, D-7 851
74. Woman's College of Baltimore, Baltimore, Md. Art collection, albums, reproductions, models, views, etc. Gal. I, V-7 851
75. Woman's Medical College of Pennsylvania, Philadelphia. Photographs, etc. Gal. I, Z-8 852
76. Yale University, New Haven, Conn. Maps, photographs, books, models, etc. Gal. K, U-6 851

GROUP 130.

Literature, Books, Libraries, Journalism.

<table>
<thead>
<tr>
<th>Number</th>
<th>Company/Book Publisher</th>
<th>City</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>286.</td>
<td>Britannica Publishing Company, of Chicago</td>
<td>Chicago</td>
<td>Encyclopedia</td>
</tr>
<tr>
<td>288.</td>
<td>Campbell, J. B., Chicago</td>
<td>Chicago</td>
<td>Illustrated magazine and lithographs</td>
</tr>
<tr>
<td>289.</td>
<td>Central School Supply House, Chicago</td>
<td>Chicago</td>
<td>School supplies</td>
</tr>
<tr>
<td>293.</td>
<td>Davis, F. A., Company, Philadelphia</td>
<td>Philadelphia</td>
<td>Medical books, charts and periodicals</td>
</tr>
<tr>
<td>294.</td>
<td>Dickert, Miss Clara, Chicago</td>
<td>Chicago</td>
<td>Relief map of Palestine</td>
</tr>
<tr>
<td>297.</td>
<td>Educational Publishing Company, Boston</td>
<td>Boston</td>
<td>Text-books</td>
</tr>
<tr>
<td>298.</td>
<td>Estes &amp; Lauriat, Boston</td>
<td>Boston</td>
<td>Books</td>
</tr>
<tr>
<td>299.</td>
<td>Fairbank &amp; Rolison, Chicago</td>
<td>Chicago</td>
<td>School books</td>
</tr>
<tr>
<td>300.</td>
<td>Fishel, Adler &amp; Schwartz, New York</td>
<td>New York</td>
<td>Engravings, etchings, etc.</td>
</tr>
<tr>
<td>301.</td>
<td>Flanagan, A., Chicago</td>
<td>Chicago</td>
<td>Teachers’ books, charts, maps, apparatus, etc.</td>
</tr>
<tr>
<td>302.</td>
<td>Freund, W. M., &amp; Sons, Chicago</td>
<td>Chicago</td>
<td>Copper plate and steel die work</td>
</tr>
<tr>
<td>303.</td>
<td>Gallis &amp; Hobron Co., Chicago</td>
<td>Chicago</td>
<td>a Engravings. b Trade journals.</td>
</tr>
<tr>
<td>304.</td>
<td>Ginn &amp; Co., Boston</td>
<td>Boston</td>
<td>School books, charts, etc.</td>
</tr>
<tr>
<td>308.</td>
<td>Harper Bros., New York</td>
<td>New York</td>
<td>a Books, magazines, drawings, engravings, etc. b Illustrated papers.</td>
</tr>
<tr>
<td>309.</td>
<td>Heath, D. C., &amp; Co., Boston</td>
<td>Boston</td>
<td>School books, charts, maps, etc.</td>
</tr>
<tr>
<td>313.</td>
<td>Interstate Publishing Company, Boston</td>
<td>Boston</td>
<td>School books, charts, etc.</td>
</tr>
<tr>
<td>315.</td>
<td>Keener, Wm. T., Chicago</td>
<td>Chicago</td>
<td>Medical books.</td>
</tr>
<tr>
<td>317.</td>
<td>Leach, Shevell &amp; Sanborn, Boston</td>
<td>Boston</td>
<td>School books</td>
</tr>
<tr>
<td>318.</td>
<td>Levytype Company, Philadelphia</td>
<td>Philadelphia</td>
<td>Engravings, prints, etc.</td>
</tr>
<tr>
<td>327.</td>
<td>Morgan, W. J., &amp; Co., Cleveland, Ohio</td>
<td>Cleveland, Ohio</td>
<td>Lithograph.</td>
</tr>
<tr>
<td>333.</td>
<td>Park Commissioners of Boston, Boston</td>
<td>Boston</td>
<td>Maps and photographs of park system.</td>
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<tr>
<td>334.</td>
<td>Phonographic Institute, Cincinnati</td>
<td>Cincinnati</td>
<td>Phonographic text-books.</td>
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### GROUP 151.

**Instruments of Precision, Experiment, Research and Photography.**

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<tr>
<th>Description</th>
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<td>387. Elliott, J. M., Columbus, Ohio. Photograph. Gal. E, N-104</td>
<td>871</td>
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392. Gundlach Optical Company, Rochester, N. Y. a Telescopes. 866 b Photographic lenses. 871 c Microscope stands, etc. 874


For exhibit see page 642.


411. McIntosh Battery & Optical Co., Chicago. a Optical apparatus. 874 b Electrical apparatus, etc. 855


424. Robinson, S. W., Columbus, Ohio. Velocity meter and tempter oidograph. Gal. E, N-101 867


**GROUP 152.**
Civil Engineering, Public Works, Constructive Architecture.


**GROUP 154.**
Commerce, Trade and Banking.

478. Lamson Consolidated Store Service Company, Boston. Cash and parcel carriers, mailing cases, etc. Gal. E, T-103 898
480. Lightning Check Punch Company, Bridgeport, Conn. Check punches, etc. Gal. E, U-107 898

**GROUP 156.**
Social, Industrial and Co-operative Associations.


**GROUP 157.**
Religious Organizations and Systems—Statistics and Publications.

496. New Jerusalem Church of America. Church work. Gal. D, B-102 919

GROUP 158.
Music and Musical Instruments—The Theatre.

504. Albert, C. F., Philadelphia. a Pianos. Sec. I, P-6 930 b Reed organs. 933
505. Albert, Eugene J., Philadelphia. a Violins, viola, violincello, etc. Sec. I, P-4 929 b Violin tail-piece. 936
507. Bacon, Francis, New York. a Pianos. Sec. I, U-3 930
508. Baziks, John W., Chicago. a Guitars. Sec. I, T-3 928 b Pipes. (Music Hall.) 935
509. Barckhoff, Carl, Church Organ Company, Salem, Ohio. a Pianos. Sec. I, R-8 990 b Reed organs. 933
510. Bauer, Julius, & Co., Chicago. a Pianos. Sec. I, R-8 990
511. Behr Bros., Company, New York. a Pianos. Sec. I, P-8 990
512. Bent, Geo. P., Chicago. a Pianos. Sec. I, P-6 930 b Reed organs. 933
513. Boardman & Gray, Albany, N. Y. a Pianos. Sec. I, Truss, R-8 930
514. Bohmann, Joseph, Chicago. a Mandolins, zithers, guitars, banjos. Sec. I, P-3 928 b Violins, violas, cellos. 929
515. Brainard's, S., Sons Company, Chicago. a Sheet music, books, etc. Sec. I, W-7 926
518. Chase, The A. B., Company, Norwalk, Ohio. a Pianos. Sec. I, U-9 930
520. Chicago Cottage Organ Company, Chicago. a Pianos. Sec. I, P-4 930 b Reed organs. 935
For exhibit see pages 364 and 873.
521. Chickering & Sons, Boston. a Pianos. Sec. I, N-2 930 For exhibit see page 988.
522. Clark, A. B., Richmond, Ind. a Pianos. Sec. I, Q-4 929
524. Coleman, Harry, New York. a Pianos. Sec. I, P-3 933
525. Columbia Organ & Piano Co., Grand Crossing, Ill. a Reed organs. Sec. I, T-8 935
526. Conn, C. G., Elkhart, Ind. Wind instruments. Sec. I, Q-1 927-931-934
527. Consolidated Manufacturing Company, Boston. a Pianos. Sec. I, T-6 930
528. Dickinson Ivory Company, Centerbrook, Conn. Piano keys, etc. Sec. I, R-6 930
529. Ditson, Oliver, Company, Boston. Sheet music and music books. Sec. I, W-8 926
530. Dolge, Alfred and Son, New York. a Pianoforte materials. Sec. I, Y-8 930
533. Estey Piano Company, New York. a Pianos. Sec. I, O-3 930
534. Everett Piano Company, Boston. a Pianos. Sec. I, Truss, P-8 930
536. Flechter, Victor S., New York. a Pianos, violins, etc. Sec. I, Q-6 929 b Musical accessories. 936
537. Foote, J. Howard, Chicago. a Guitars, mandolins, etc. Sec. I, Q-3 928 b Flutes. 931 c Cornets, horns, etc. 934
538. Fort Wayne Organ Company, Fort Wayne, Ind. Reed organs. Sec. I, S-6 933
539. Friedrich, John, & Bros., New York. a Pianos, violins, violas, etc. Sec. I, R-6 929
540. Fuller, Levi K., Brattleboro, Vt. Tuning forks. Sec. I, V-3 936
541. Gemunder, August, & Sons, New York. Violins, cellos, violas, violins, guitars, etc. Sec. I, Q-6 929
546. Hartman Bros. & Reinhard, New York. Guitars, zithers, mandolins, etc. Sec. I, S-5 928
548. Hesneck, H. H., Minneapolis, Minn. Violins. Sec. I, R-5 929
556. Krell, Albert, Cincinnati. Violins, etc. Sec. I, P-5 929
560. Lyon & Healy, Chicago. a) Drums, cymbals, etc. Sec. I, R-3 927 b) Guitars, banjos, zithers, etc. 928 c) Violins, violincellos, etc. 929 d) Flageolets, fifes, etc. 931 e) Pipe and reed organs. 935 f) Musical accessories. 936
566. Macenly, Clinton H., Bell Company, Troy, N. Y. Chime of bells. 927 (Central clock tower.)
569. National Music Company, Chicago. Sheet music, books, etc. Sec. I, W-7 926
575. Reed, A., & Sons, Chicago. Pianos. Sec. I, O-7 930
580. Shoninger, B., Company, New Haven, Conn. a) Pianos. Sec. I, R-6 930 b) Reed organs. 935
585. Stief, Charles M., Baltimore, Md. Pianos. Sec. I, O-4 930
586. Story & Clark Organ Co., Chicago. Reed organs. Sec. I, F-6 935
589. Tonk Manufacturing Company, Chicago. Piano stools, chairs, music cabinets, etc. Sec. I, V-8 936
590. Toye, William H. R., Philadelphia. Mandolins, guitars, banjos, etc. Sec. I, T-3 928
592. Vanduzen & Tift Co., Cincinnati, Ohio. Chime of bells. (S. E. Bell Tower, Machinery Hall) 927
BUREAU OF CHARITIES AND CORRECTION.

Exhibits Installed in Section F of Anthropological Building.

The classification of this bureau of the Department of Liberal Arts is divided into six divisions, as follows:
A—The care and treatment of the mentally defective.
B—The care and treatment of the sick and injured.
C—The care and treatment of dependent and delinquent children.
D—The care and treatment of adult poor and paupers.
E—The punishment and reformation of adult delinquents.
F—Descriptive and statistical exhibits of the government and supervision, the capacity and population of the charitable and penal institutions of the States, and miscellaneous.

DIVISION A.
The Care and Treatment of the Mentally Defective.

1. Asylum for the Insane, Athens, O. Architectural plans, photographs, literature and specimens of patients' work. F-Y-14
2. Asylum for the Insane, Cleveland, O. Architectural plans, photographs, statistics, specimens of patients' work, literature. F-Y-14
3. Asylum for the Insane, Columbus, O. Architectural plans, photographs, literature and specimens of patients' work. F-Y-14
4. Asylum for the Insane, Toledo, O. Architectural plans, photographs, literature and specimens of patients' work. F-Y-14
5. Boston Lunatic Hospital, Boston. Architectural plans, photographs, literature. F-Y-14
7. Eastern Ohio Insane Hospital. Topographical sketch and plans. F-Y-14
8. Insane Asylum, Dayton, O. Plans, photographs, literature and specimens of patients' work. F-Y-14
9. Longview Insane Asylum, Carthage, O. Plans, photographs, specimens of patients' work. F-Y-14
11. McLean Hospital, Somerville, Mass. a Model, plans, photographs, statistics and literature of hospital. b Photographs, statistics and literature of training school for nurses to the insane. F-Y-12
12. Maine Insane Hospital, Augusta, Me. Architectural plans, photographs, statistics, literature. F-Y-11
13. Michigan, State of. Charts, photographs and illustrations of the work of the institutions for the insane at Kalamazoo, Pontiac and Traverse City. F-Y-12
14. Minnesota Hospital for the Insane, St. Peter, Minn. Photographs, uniforms, etc. F-Y-11
15. Minnesota Second Hospital for Insane, Rochester, Minn. Photographs, model of tank for treatment of sewage, uniforms, etc. F-Y-11
16. Northern Indiana Hospital for Insane, Logansport, Ind. Photographs, statistics, etc. F-Y-11
17. Ohio Institution for Epileptic Insane. Topographical sketch and plans. F-Y 14
18. Utica State Hospital, Utica, N. Y. Model of infirmary building, photographs, statistics, samples of patients' work. F-Y-12

DIVISION B.
The Care and Treatment of the Sick and Injured.

20. Barnwell, Miss C. C., Baltimore. Description of dispensary for plaster jackets. F-W-9
21. Boston City Hospital, Boston. Architectural plans, photographs, literature, statistics, models of appliances of hospital and training school for nurses. F-X-10
22. Cancer Hospital for Women, New York. Photographs and literature. F-W-12
23. Dugot, Mrs. B. A., Mallet Creek, O. Combined douche and bed pan. F-X-15
25. Fitch Accident Hospital, Buffalo, N. Y. Photographs and statistics. F-W-9
27. Hawley, Mary A., Dixon, III. Invalid's table. F-X-15
31. Johns Hopkins Hospital, Baltimore. Model of buildings, plans, photographs, etc. of hospital and nurses' training school. F-X-9
32. Maine Eye and Ear Infirmary, Portland, Me. Plans, photographs and statistics. F-W-9
33. Massachusetts Emergency & Hygiene Ass'n, Boston. Maps, photographs, appliances, literature. F-X-9
34. Medical and Surgical Sanitarium, Battle Creek, Mich. Plans, photographs, appliances. F-W-10
38. Reeves, Carrie V., Baltimore. Head rest for beds. F-X-15

DIVISION C.
The Care and Treatment of Dependent and Delinquent Children.
41. Aid for Destitute Mothers and Infants, Boston. Statistics and reports. F-W-9
42. Baptist Orphanage, Angora, Philadelphia. Photographs of buildings and inmates. F-W-10
44. Brooklyn Orphan Asylum Society, Brooklyn, N. Y. Photographs and statistics. F-X-10
45. Children's Aid Society, Boston. Photographs, statistics, library. F-W-10
47. Children's Aid Society, Chicago. Statistics, photographs, reports, etc. F-W-9
48. Children's Aid Society, Philadelphia. Photographs, charts, clothing, etc. F-W-9
49. Children's Home, Bangor, Me. Statistics and reports. F-W-10
50. Fitch Creche, Buffalo, N. Y. Photographs, statistics, etc. F-W-12
51. Goodwill Farm for Boys, East Fairfield, Me. Photographs, statistics, reports. F-W-12
52. Hampden County Children's Aid Ass'n, Springfield, Mass. Photographs and reports. F-W-9
53. Hebrew Orphan Asylum, New York. Photographs, specimens of school work, uniforms, etc. F-W-9
56. Illinois School of Agriculture and Manual Training School for Boys, Glenwood, Ill. Photographs, statistics, specimens of school work. F-W-12
57. Industrial School for Girls, Boston. Reports. F-Y-9
58. Little Mothers at Work and Little Mothers at Play, New York. Photographs and statistics. F-W-12
60. Lyman School for Boys, Westboro, Mass. Photographs and specimens of school work. F-W-12
61. Maine Industrial School for Girls, Hallowell, Me. Photographs, statistics, reports. F-W-12
64. Massachusetts State Board of Lunacy and Charity, Boston. Photographs, appliances and statistics of Department of Outdoor Poor. F-W-9
65. Massachusetts State Primary School, Palmer, Mass. Photographs of buildings, statistics, etc. F-W-12
68. New York State Industrial School, Rochester, N. Y. Photographs, charts, specimens of school work. F-W-10
69. Ohio Girls' Industrial Home, Delaware, Ohio. Plans and photographs of buildings, statistics, specimens of school work. F-W-12
70. Pennsylvania Reform School, Morgantown, Pa. Photographs, statistics, specimens of school work, etc. F-W-12
71. Presbyterian Orphanage, Philadelphia. Photographs, statistics, specimens of school work. F-W-10
72. South End Industrial School, Roxbury, Boston. Photographs, descriptive charts, specimens of school work. F-W-11
73. State Industrial School for Girls, Lancaster, Mass. Photographs, statistics, etc. F-W-12
74. Trustees of the State Primary and Reform Schools of Massachusetts, Boston. Bound reports. F-Y-9
75. Wernle Orphan Home, Richmond, Ind. Photographs and statistics. F-W-10
76. Young Girls' Home, St. Paul, Minn. Photographs, statistics, etc. F-W-12

DIVISION D.
The Care and Treatment of Adult Poor and Pensions.
77. Associated Charities, Boston. Literature and record blanks. F-T-10
78. Associated Charities, Cincinnati. Literature and record blanks. F-T-10
79. Associated Charities, Fall River, Mass. Literature. F-T-10
80. Associated Charities, Newburgh, N. Y. Literature. F-T-10
81. Associated Charities, Newtonville, Mass. Literature. F-T-10
82. Associated Charities, Wilmington, Del. Literature and record blanks. F-T-10
83. Bethel Associated Charities, Cleveland, O. Literature and record blanks. F-T-10
84. Boston Provident Association, Boston. Literature. F-T-10
85. Bureau of Labor and Charities, Syracuse, N. Y. Literature. F-T-10
86. Charity Organization Society, Baltimore, Md. Literature and record blanks. F-T-10
87. Charity Organization Society, Buffalo, N. Y. Literature and record blanks. F-T-10
88. Charity Organization Society, Burlington, Iowa. Literature and record blanks. F-T-10
89. Charity Organization Society, Indianapolis, Ind. Literature and record blanks. F-T-10
90. Charity Organization Society, Newport, R. I. Literature and record blanks. F-T-10
91. Charity Organization Society, New York City. Literature, record blanks and plans of United Charities building. F-T-10
92. Chicago Relief and Aid Society, Chicago. Literature, record blanks and statistics. F-T-10
93. City Almshouse, Baltimore. Charts, literature and photographs. F-T-10
94. City Mission, Lawrence, Mass. Literature. F-T-10
95. German Evangelical Home, Brooklyn, N. Y. Literature, plans and statistics. F-T-10
96. German Old People's Home, Chicago. Report and photographs. F-T-10
97. German Society of Chicago, Chicago. Literature and record blanks. F-T-10
98. Home for the Friendless, Buffalo, N. Y. Statistics, photographs. F-T-10
99. Industrial Aid Society, Boston. Literature and record blanks. F-T-10
100. Library Bureau, Boston. Card-case for records of charitable societies. F-T-10
101. Massachusetts Board of Lunacy & Charity, Department of indoor Poor, Boston. Statistics and photographs. F-T-10
102. Massachusetts, State of. Model of Hospital Pavilion of the State Almshouse at Tewksbury. F-T-10
103. Montefiore Home for Chronic Invalids, New York. Literature, photographs and statistics. F-T-10
104. New York Herald, New York City. Photographs, history and statistics of the Free Ice Charity. F-T-10
105. New York State Soldiers' and Sailors' Home. Topographical drawing and photographs of grounds and buildings. F-T-10
106. North End Mission, Boston. Literature, photographs, statistics. F-T-10
107. Ohio Working Home for the Blind. Photographs, charts, manufactured articles, etc. F-T-8
109. Overseers of the Poor, Bellingham, Mass. Literature. F-T-10
110. Overseers of the Poor, Boston. Literature, record blanks, statistics. F-T-10
111. Overseers of the Poor, Brookline, Mass. Reports, photographs of almshouse, statistics. F-T-10
112. Overseers of the Poor, Somerville, Mass. Literature and record blanks. F-T-10
113. Overseers of the Poor, Springfield, Mass. Literature, statistics, photographs of almshouse, record blanks. F-T-10
114. Pennsylvania Industrial Home for Blind Women, Philadelphia. Photographs and specimens of inmates' work. F-T-8
115. Penny Provident, of the Charity Organization Society, Buffalo, N. Y. Statistics, appliances and record blanks. F-T-10
116. Relief Association, Plainfield, N. J. Literature. F-T-10
117. Society of St. Vincent de Paul, Boston. Literature, record blanks, photographs and statistics. F-T-10
118. Temporary Home for Working Women, Boston. Reports and statistics. F-T-10
119. Union Relief Association, Springfield, Mass. Literature. F-T-10
120. United Hebrew Charities, New York. Literature and record blanks. F-T-10
121. Western House of Employment, Philadelphia. Photographs and statistics. F-T-10

DIVISION E.
The Punishment and Reformation of Adult Delinquents.
122. Champion Iron Co., Kenton, Ohio. Prison work, iron and steel cells, doors, locking device, window guards, etc. F-T-10
126. Minnesota State Prison, Stillwater, Minn. Photographs, plans, products. F-U-13
129. Ohio State Reformatory, Mansfield, Ohio. Drawings and plans. F-S-13
132. Van Dorn Iron Works Co., Cleveland, O. Iron and steel jail complete, photographs. F-T-8

DIVISION F.

Descriptive and statistical exhibits of the government and supervision; the capacity and population of the charitable and penal institutions of the states, and miscellaneous.


139. Indian Territory. Statistics. F-Y-10
140. Indiana Board of State Charities. Map, statistics and reports. F-Y-10
141. Iowa State. Map and statistics. F-Y-10
143. Maryland State. Map and statistics. F-Y-10
144. Massachusetts Board of Charities and Corrections. Scrap books. F-Y-10
145. Massachusetts Board of Lunacy and Charity. Reports, photographs, forms. F-Y-10
146. Massachusetts State. Maps, statistics and literature. F-Y-10
147. Michigan State Board of Correction and Charities. Map and statistics. F-Y-10
152. Ohio State. Map and statistics. F-Y-10
157. Workingmen's Loan Ass'n, Boston. Statistics and literature. F-T-10

First National Bank, Chicago, Ill. For exhibit see page 227.
Phoenix Mutual Ins. Co., Hartford, Conn. For exhibit see page 437.
Times Mirror Co., Los Angeles, Cal. Newspaper. For exhibit see page 438.
Evans-Snider-Buel Co., Chicago. For exhibit see page 1118.
Acme Copying Co., Chicago, Ill. Portraits. For exhibit see page 571.
Plankinton House, Milwaukee, Wis. Hotel. For exhibit see page 682.
Metropolitan Ins. Co., New York, N. Y. For exhibit, see page 1004.
Mitchell & Halbach, Chicago, Ill. Decorators. For exhibit, see page 741.
London Guarantee Accident Co., Ldt., Chicago, Ill. Accident insurance. For exhibit, see page 471.
Weser Bros., New York, N. Y. Pianos. For exhibit, see page 363.
Lincoln Park Sanitarium, Chicago, Ill. Sanitarium. For exhibit, see page 676.
Spieirling & Linden, Chicago, Ill. Interior Decorations. For exhibit, see page 1004.
Theo. M. Brown, Cazenovia, Minn. Patent Ledger. For exhibit, see page 1010.
CATHOLIC EDUCATIONAL EXHIBIT. UNITED STATES.

SECTION 1.

GROUP 147.

The archbishops of the United States, with Cardinal Gibbons of Baltimore presiding, at their meeting in Boston, July, 1896, issued an invitation to all in charge of Catholic educational institutions to exhibit at the Columbian Exposition. The preliminary arrangements were made by delegates at several meetings in Chicago and St. Louis. At the request of the archbishops Rt. Rev. J. C. Spaulding, D. D., Bishop of Peoria, consented to become president, and Brother Maurelian, F. S. C. (president of Christian Brothers College of Memphis, Tenn.), consented to act as secretary and manager of the Catholic educational exhibit.

Exhibits will be presented by normal schools, universities, colleges, art schools, schools of science and technology, high schools, academies, commercial schools, industrial and manual training schools, primary or kindergarten schools, orphanages, reformatories, schools for Indians, negroes, blind, deaf and dumb.

The exhibits include paintings, drawings and photographs of school buildings, chapels, churches, class-rooms, playgrounds, library, art, lecture and science halls, groups of teachers and pupils, music classes, sewing and embroidery classes, work-shops in industrial and training schools, etc.

The normal department presents normal manuals, sets of text-books, apparatus and appliances for instructing in all branches of literature, science and art, as also the work of teachers and normal students.

Work of pupils in plain and ornamental typewriting and shorthand, with illustrations whenever possible, will be exhibited in Christian doctrine, history of the United States, ancient and modern history, sacred history, church history, mythology, ancient and modern languages, compositions, essays, theses, debates, mathematics, astronomy, chemistry, physics, theory of music, logic and metaphysics, philosophy, hygiene, sanitation, meteorology, philosophy, political economy, civil government, mineralogy, geology, zoology, botany, horticulture, agriculture, forestry, conchology, ornithology, geography with maps and hypothetical casts of cities and countries, commercial payers, bookkeeping, shorthand, specimen of painting, free-hand crayon, linear and mechanical drawings, drawings from nature and from the flat, perspective drawings, etc.; museums for object lessons, specimens from industrial schools of printing in colors and plain, electrotyping, tailoring, wood-carving, carpentry, shoe-making, iron-work, etc.; plain and fancy needle work, crochet, drawn-work, tapestry, lace-making, embroidery, painting on porcelain, wax-work, etc.

The colleges, academies and schools represented in the various classes of exhibits are in charge of the following orders, congregations and persons:


DIOCESAN EXHIBITS.

   Academies of Brooklyn (4), Bayside (Whiteside P. O.), Far Rockaway and Sag
   Harbor.
   Orphanage of Brooklyn.
   Parish schools of Brooklyn (44), College Point, Flatbush and Flushing.

2. Buffalo, N. Y., Diocese. Academies
   and colleges of Buffalo (8), Albion, Allegany (2), Batavia, Corning, Dunkirk, Elmira, Hornellsville, Lockport, Owego, Niagara Falls, Rextown and Wellsville.
   Orphanages of Buffalo (2), Corning, Dunkirk and West Seneca.
   Parish schools of Buffalo (21), Albion, Alden, Allegany, Batavia, Cheektowaga, Corning, Dunkirk (2), East Eden, Elmira, Gardenville, Hamburg, Hornellsville, Jamestown, Lancaster, Lockport (3), Niagara Falls, Olean, Pendleton, Salamanca, Springville, Suspension Bridge, Tonawanda and West Seneca.

3. Christian Brothers. Normal Institute
   of Amawalk, N. Y.; Ammendale, Md.;
   Glencoe, Mo., and Martinez, Cal.
   Colleges of Ellicott City, Md.; Memphis, Tenn.; New York City (2); Oakland, Cal.;
   Philadelphia, Pa.; Portland, Ore.; San Francisco, Cal.; St. Louis, Mo.; St. Joseph, Mo.;
   and Washington, D. C.
   Academies and high schools of Albany, N. Y.; Baltimore, Md.; Chicago, Ill.;
   New York City; Oakland, Cal.; Providence, R. I.;
   Sacramento, Cal.; St. Paul, Minn.; Troy, N. Y., and Westchester, N. Y.

   Parish schools of Albany, N. Y. (3); Baltimore, Md. (3); Brooklyn, N. Y.; Buffalo, N. Y. (9); Burlington, Vt.; Chicopee, Mass.;
   Detroit, Mich.; Dover, N. H.; Jersey City, N. J.; Kansas City, Mo.; Manchester, N. H.;
   Melrose, N. Y.; Newark, N. J.; Newburg, N. Y., New York City (13); New Orleans, La.;
   Oakland, Cal. (3); Paterson, N. J.;
   Providence, R. I. (2); Philadelphia, Pa. (7);
   San Francisco (2); St. Joseph, Mo.;
   St. Louis, Mo. (6); Temescal, Cal.;
   Toledo, Ohio; Troy, N. Y.; Utica, N. Y.;
   Waltham, Mass.; West Oakland, Cal., and Younger, N. Y.

   Industrial and training schools of Eddington,
   Pa.; Feehanville, Ill.; Utica, N. Y., and
   Westchester, N. Y.

   Orphanages of Albany and Troy, N. Y.

4. Cleveland, Ohio, Diocese. Colleges and academies of Cleveland (2), Tiffin (2),
   Toledo, Nottingham (2), and Villa Marie, Pa.
   Parish schools of Cleveland (25), Bellvue,
   Defiance, Monroeville and other cities.

5. Covington, Ky., Diocese. Academies
   of Covington (4), Lexington, Maysville,
   Newport (2) and White Sulphur.
   Parish schools of Covington (7), Newport
   (3), Alexandria, Ashland, Augusta, Bellevue,
   Carrollton, Cold Spring, Dayton, Frankfort
   and Paris.

6. Denver, Col., Diocese. Academies
   and Parish schools of Denver (6), Canon
   City, Leadville, Trinidad, etc.

7. Detroit, Mich., Diocese. Commercial
   schools of Detroit.
   Academies of Detroit and Monroe.
   Parish schools of Detroit (2), Mt. Clemens

8. Dubuque, Iowa, Diocese. Academies
   of Dubuque (2), Carroll, Cedar Rapids and
   Lyons.
   Parish schools of Dubuque, Ackley, Breeds,
   Browns, Carroll (2), Cascade (2), Clinton,
   Decorah, Dewitt, Dyersville, Farley, Festina, Fort Dodge, Haverhill, Key West,
   Lansing, Lawler, LeMars (2), Luxemburg,
   Milly, Mt. Carmel, New Vienna, Petersburg, Quigly, Remsen, St. Donatus and
   Staceyville.

   of Notre Dame.
   Academies of Fort Wayne, Crawfordsville,
   LaFayette, LaPorte, Notre Dame, Rensselaer,
   South Bend (2), Valparaiso and
   Winamac.
   Orphanages of Fort Wayne and LaFayette.

   Parish schools of Fort Wayne (6), Anderson,
   Avila, Columbia City, Crawfordsville,
   Crown Point, Delphi, Decatur, Earl Park,
   Ege, Elkhart, Elwood, Fowler, Garrett City,
   Goshen, Hammond, Huntington, Kentland,
   Klaasville, Kokomo, LaFayette (4), Lagro,
   Logansport (3), Michigan City (2), Mishawaka,
   Monroeville, Muncie, New Haven,
   New Corydon, Otis, Peru, Plymouth, St.
   John, South Bend (8), Sheldon, Tipton,
   Union City, Valparaiso and Winamac.

10. Green Bay, Wis., Diocese. Parish
    schools of Green Bay (4), Ahnapee, Ap-pleton (2), Antigo, Bay Settlement, Berlin,
    Brilllon, Buchanan (Darby P. O.), Cate,
    Chilton, Clark's Mills, Clintonville, Coop-
    ertyown, Delwich, DePere (4), Duck Creek,
    Francis Creek, Freedom, Grand Rapids,
    Holland, Hull (Steven's Point P. O.), Kau-
    kauna, South Kaukauna, Kellnersville,
    Keshena, Kawauke, Little Chute, Lux-
    embourg, Maple Grove, Marinette (2),
    Menasha (3), New London, New Franken,
    Oconto (9), Oshkosh, Portage, Reeds-ville,
    Shawano, Steven's Point (3), Stockbridge,
    St. Johns, Sturgeon Bay, Two Rivers,
    Wausau and Wrightstown.

11. LaCrosse, Wis., Diocese. Parish
    schools of LaCrosse (7), Ashland, Bayfield,
    Chippewa Falls (2), Eau Claire, Fountain
    City, Hudson, Marshfield, Neillsville, New
    Richmond, Prairie du Chein, Sauk City,
12. **Sparta,** Standfold, Superior City and West Superior. Orphanage of LaCrosse.
13. **Manchester, N. H., Diocese.** Academies of Manchester (2), and Nashua.
14. **Milwaukee, Wis., Diocese.** Academies of Milwaukee, Racine and Sinsinawa Mound. Parish schools of Milwaukee (9), Ashton P. O., Caledonia, Racine, Roxbury, St. Francis, West Allis, Milwaukee (3), and West Allis (2), and Mound.
15. **Natchez, Miss., Diocese.** College of Bay St. Louis. Academies of Bay St. Louis, Chatawa, Greenville, Meridian, Scranton and Vicksburg (2).
16. **New Orleans, Diocese.** Academies of New Orleans (8) and Donaldsonville. Parish schools of New Orleans (11).
17. **New York City, Diocese.** Colleges of New York City (2), Amawalk. Academies of High Schools of New York City (3).
19. **Philadelphi Diocese.** High Schools of Philadelphia and Chestnut Hill. Parish schools of Philadelphia (55), Ardmore, Bally, Bristol, Bryn Mawr, Chester (2), Conshohocken (2), Doylestown, Kellyville, Lehighton, Mauch Chunk, Norristown, Phoenixville, Port Carbon, Pottsville (2), Reading, St. Clair, Shenandoah and West Chester.
21. **Benedictine Fathers.** College of Belmont, N. C. (2).
22. **Benedictine Sisters.** Academy at Nauvoo, Ill. Parish schools of Manchester, N. H.; Spokan, Wash., and Sturgis, S. D.
23. **Charity, Sisters of.** Academies and Parish schools of Emmittsburg, Md. (2); LaSalle, Ill.; Memphis, Tenn.; Pine Bluff, Ark.; Richmond, Va.; Tulalip Reservation, Wash.; Washington, D. C.; Wichita, Kan.; and Baltimore, Md.
25. **Dominican Sisters.** Academies of Chicago, Ill.; Bloomington, Ill.; Faribault, Minn.; Washington, D. C.; Racine, Wis., and Sinsinawa Mound, Wis.
27. **Mary, Brothers of.** Colleges of Dayton, Ohio; Honolulu, H. I., and San Antonio, Tex.
28. **Precious Blood, Sisters of.** Academy of St. Louis, Mo.
32. **Benedictine Fathers.** College of Belmont, N. C. (2).
THE OFFICIAL DIRECTORY

DEPARTMENT L.—LIBERAL ARTS.

Ind.; New Albany, Ind.; Omaha, Neb.; Peru, Ind.; Richmond, Ind.; Saginaw, City, Mich.; Savanna, Ill.; St. Mary's, Vigo City, Ind.; Seymour, Ind.; Terre Haute, Ind. (2); Valparaiso, Ind.; Vincennes, Ind.; Washington, Ind. (2), and Ypsilanti, Mich.

30. School Sisters of Notre Dame (East).
Academies of Govanstown and Baltimore, Md., and Fort Lee, N. J.

31. School Sisters of Notre Dame (Mil).
Academies of Milwaukee, Wis.; Quincy, Ill., and Harbor Springs, Mich.
Orphanage of Quincy, Ill.
Parish schools of Milwaukee (9); Belvidere, Minn.; Champaign, Ill.; Escanaba, Mich.; Fort Madison, la.; Fort Wayne, Ind.; Grand Rapids, Mich. (2); Highland, Ill.; Logansport, Ind.; Louisville, Ky.; Peoria, Ill. (2); Quincy, Ill. (8); St. Charles, Mo.; St. Louis, Mo.; St. Paul, Minn.; Shakopee, Minn.; Sheboygan, Wis.; Washington, Mo.; Winona Minn., and Wabasha, Minn.

32. St. Francis, Sisters of (Old'bg).
Academy of Oldenburg; Ind.
Parish schools of Aurora, Ind.; Cincinnati, Ohio (2); Dover, Ind.; Evansville, Ind.; Indianapolis, Ind. (2); Lawrenceburg, Ind.; Morris, Ind.; New Albany, Ind.; New Alsace, Ind.; Oldenburg, Ind.; Rushville, Ind.; St. Louis, Mo.; St. Peter's, Ind.; St. Wendel, Ind.; Sedamsville, Ohio; Shelbyville, Ind., and Yorkville, Ind.

Academies of St. Genevieve, Mo.; St. Augustine, Fla.; Philadelphia, Pa.; Peoria, Ill., and Syracuse, N. Y.

34. The Sacred Heart, Brothers of.
Colleges of Bay St. Louis, Miss.; Vicksburg, Miss., and Thibodaux, La.
Parish schools of Augusta, Ga.; Donaldsonville, La.; Indianapolis, Ind. (2); Manchester, N. H.; Mobile, Ala., and Natchez, Miss.

35. Ursuline Sisters.
Academies of Alton, Ill.; Arcadia, Mo.; Collinsville, Ill.; Crescent Hill, Ky.; Decatur, Ill.; Grand Forks, S. D.; St. Louis, Mo., and Frontenac, Minn.
Parish schools of Alton, Ill. (2).

36. Visitation Sisters.
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2. Broz, Albert, Graz. Surgical instruments. 887
3. Odelga, I., Vienna. Surgical instruments and apparatus. 887

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5. Cubel, Dr. Franz, Prague. Reckoning apparatus for children. 842
6. Genossenschaften, Fachschule fuer Drechsler at Vienna. Models and drawings. 847
8. Hanusch, Thomas, Hostitz, Bohemia. Reckoning apparatus for children. 842
9. Lenoir & Forster, Vienna. Apparatus for teaching chemistry and physics. 845
11. Roth, Adolf, Taus, Bohemia. Appliances for teaching. 842

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12. Dorn, Dr., Volkswirtschaftlicher Verlag, Vienna. Works on national economy. 854
14. Grieszelich, Ernst Ludwig, Vienna. Graphical illustration of foreign travel in the capitals of Europe. 864
16. Lechner, R. (W. Mueller), Vienna. Topographical maps. 864
17. Ministerium des Innern K. K., Vienna. Statistical and graphical illustrations of the workingmen's insurance system and of their unions in Austria. 863
18. Silas, Ferdinand, Vienna. Geographical maps. 864
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22. Forster, I., Salzburg. Photographical backgrounds. 871
23. Hofmeier, Julius, Vienna. Photographic plates. 871
24. Klicnik, Arnold, Brunn, Moravia. Mechanical instruments. 865
30. Reichert, C., Vienna. Microscopical and optical instruments. 874
31. Ringhofer, F., Smichew near Prague. Photos of machines of different kinds. 871
32. Verein zur Hebung des Fremdenverkehrs, Prague. Photographical views. 871
33. Wachtel, Bernhard, Vienna. Photographic cartoons and passepartouts. 871

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34. Weber, von Ebenhof, Alfred, Brunn, Moravia. Work on mountain hydraulics. 882

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36. Wicke, Wenzel, Graz. Letter boxes. 893

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38. Augerger, Franz & Dotzauer, Wenzel, Vienna. a Wind instruments. 931
   b Stringed instruments. 928
40. Brunbauer, Philipp, & Sohn, Vienna. Harmonicas. Included in the collective exhibit of the Genossenschaft at Vienna. 932
41. Cerveny, V. F., & Soehne, Koeniggratz, Bohemia. Wind instruments. 931
42. Dehmal, Anton, Vienna. Wind instruments. 931
43. Fiehn, Heinrich, Vienna. Ocarinas. 932
44. Forster, Johann, Vienna. Harmonicas. 935
45. From, Karl, Vienna. Stringed instruments. 928
46. Fuchs, Daniel, Vienna. Wind instruments. 931
47. Gessner, J. B., Graslitz. Wind instruments. Included in the collective exhibit of the Graslitz manufacturers. 931
48. Graslitz manufacturers of musical instruments. Collective exhibit of musical instruments. 928
49. Haudeck, Karl, Vienna. Stringed instruments. 928
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| 52. | Kiendl, Karl, Vienna. | Stringed instruments. | 928 |
| 53. | Kirchner Gebrueder, Vienna. | Musical instruments. | 928 |
| 54. | Kirchner, Karl, Vienna. | Stringed instruments. | 928 |
| 55. | Klier, Andreas, Schoenbach. | Musical instruments. | 928 |
| 56. | Langhammer, J. E., Graslitz. | Wind instruments. | 931 |
| 57. | Loos, Karl, Schoenbach. | Stringed instruments. | 928 |
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| 59. | Mayer, Carl, Vienna. | Mouthpieces for musical instruments. | 936 |
| 60. | Meindl, J. B., Gratliz. | Wind instruments. | 921 |
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| 63. | Petz, Josef, Graz. | Automatic organ. | 935 |
| 64. | Pick, Josef Leopold, Vienna. | Harmonicas. | 935 |
| 65. | Ploczek, A., Chroustowitz, Bohemia. | Musical instruments. | 936 |
| 66. | Proksch, A., Reichenberg, Bohemia. | Pianos. | 930 |
| 67. | Roesel, Johann, Vienna. | Wind instruments. | 931 |
| 68. | Sandners, Sohn, Schoenbach, near Eger, Bohemia. | Musical instruments. | 936 |
| 69. | Schoenbach manufacturers of musical instruments. | Collective exhibit of musical instruments. | 936 |
| 70. | Schuster, Jos. Jgn., Kirchberg, near Graslitz. | Bows for violin, violoncello and bass viol. | 936 |
| 71. | Stecher, Karl, Vienna. | Wind instruments. | 931 |
| 72. | Stingl, Gebrueder, Vienna. | Pianos. | 930 |
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| 74. | Strowasser’s, W. Soehne, Gratlitz. | Wind instruments. | 931 |
| 75. | Thie, Wilhelm, Vienna. | Harmonicas. | 935 |
| 76. | Trimmel, Joh. N., Vienna. | Harmonicas. | 935 |
| 77. | Urbanek, Fr. A., Prague. | Music books. | 926 |
| 78. | Vienna Genossenschaft der Musikinstrumenten Erzanger. | Collective exhibit | 936 |

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2. Demany, Emile, Liege. Plans and designs of school-houses. 827
3. Franken-Willemars, Edouard, Brussels. a Plans of residences. 827 b Plans of hospitals. 832
5. Société anonyme des Forges d’Aiseau, Aiseau. Sheet-iron building. 830

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#### GROUP 149.

8. Van Dooren, Louis, Brussels. Chart of penmanship. 842

#### GROUP 150.


#### GROUP 151.

13. Administration Communale de Bruges, Bruges. Photographs of the city. 871

#### GROUP 155.

14. Administration Communale D’Ostende, Ostende. Photographs of the city. 871
15. Beernaert’s Dry Plate Company, Gand. Photographic plates. 871
16. Belot, Ch., Brussels. Photographic apparatus. 871
18. Géruset frères, Brussels. Photographs on tiles, etc. 871
19. Sober, Edmond, frères, Brussels. Painted photographs. 871

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#### GROUP 158.

22. Causard, Tellin, Grupont. Church bells. 927
23. Delflas, Camille, Brussels. Brass musical instruments. 933
24. Faes, Gustave, Antwerp. Violins and accessories. 929
25. Graffart, Julien, Liége. Music. 926
26. Senecaut, Pierre, Malines. a Wood musical instruments. 931 b Brass musical instruments. 933
27. Vancauvelaert, frères & soeur, Brussels. a Brass musical instruments. 933 b Accessories of musical instruments. 936
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2. Rosebrugh, A. M., Toronto. Window ventilators. 820
3. Wilkinson, J., Peterboro, Ont. Sick-bed appliance. 882

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5. Bonnar, Wm., Albion, Ont. Surgeon's satchel. 857
   a. Surgical chairs and cabinet. 897  
   b. Dental chairs and cabinet. 880

#### GROUP 149.
7. Canada Office & School Furniture Co., Preston, Ont. School furniture. 842
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9. Specimens of work from the schools of the Brothers of the Christian Schools; St. Croix Congregation; Christian Brothers; Marists' Brothers; St. Gabriel Brothers; Brothers of the Sacred Heart; Brothers of St. Vincent de Paul; Catholic Commissioners of the City of Montreal; Sisters of Notre Dame; and various boarding and day schools in the Province of Quebec; also boarding and day schools in the Provinces of Ontario; Nova Scotia; New Brunswick; Prince Edwards Island; and the United States, and Convents of the Nuns of Quebec; Three Rivers; Stanstead; and Roberval; Sisters of Ste Anne, Lachine; Sisters of St. Croix, St. Laurent; Sisters of the Good Shepherd, Montreal. 842

10. Specimens of work from the Institution of the Deaf Mutes, under the direction of the Sisters of Providence, Montreal; Sisters of Jesus Marie of Sillery, Quebec; Sisters of Charity; of Quebec; Sisters of l' Assomption, Nicolet; Sisters of the Presentation of St. Hyacinthe; and Grey Sisters of the Cross; also school of Mr. Frs. Liénard, St. Sabastien. 849

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14. Provincial Government of Quebec, Quebec. Educational system. 840

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16. Ernst, Charles F., New Hamburg, Ont. Old bible. 854
17. McClean, J. B., Publishing Company, Toronto. Trade journals. 856

#### GROUP 151.
20. Campbell & Son, Toronto. Photographer's scenic background. 871
22. Grant, Henry, & Son, Montreal. Optical goods. 874
23. Magrath, C. A., Lethbridge, N. W. T. Photos of Lethbridge. 871
24. Notman, Wm., & Sons, Montreal. Photographs. 871
26. Stubbert, Jas. S., North Sydney, N. S. Views of Cape Breton. 871
27. Victoria Park Trustees, Truro, N. S. Photographs. 871
28. Williams, L. H., Montreal. Photographs. 871

#### GROUP 152.
29. Department of Public Works, Ottawa, Ont. Views and plans of public buildings. 889
30. Dominion Bridge Company, Montreal. Drawings and photographs of bridges. 880
32. Magrath, C. A., Lethbridge, N. W. T. Blue print of Galt hospital. 889

#### GROUP 153.
34. Beatty, W. J., Ottawa, Ont. Stamp albums. 893
35. Savard, Joseph L., Quebec. Stamp album. 893

#### GROUP 154.
36. Berry, A., Warden, Que. Drawer equalizer. 898
37. Canada Office & School Furnishing Company, Preston, Ont. Office and opera furniture. 898
38. McLean, F. E., Port Hastings, C. B. Old bank notes. 897

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<td>Goderich Organ Company, Goderich Ont. Organs.</td>
<td>Goderich, Ont.</td>
<td>Organ</td>
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<td>44.</td>
<td>Knaggs, Wm., Hamilton, Ont. Violins and viola.</td>
<td>Hamilton, Ont.</td>
<td>Violin, Viola</td>
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<td>45.</td>
<td>Major, Geo., Cape Le Ronde, N. S. Violin.</td>
<td>Cape Le Ronde, N. S.</td>
<td>Violin</td>
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<td>49.</td>
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<td>b Puppet shows, masks, wena or kinarama.</td>
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<td>5.</td>
<td>Colombo Museum.</td>
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<td>a Drum.</td>
<td>927</td>
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<td>b Flageolet.</td>
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<td></td>
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<td>c Horn.</td>
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### DENMARK.

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<td>Lange, Joh., Copenhagen. Parts of &quot;Flora Danica.&quot;</td>
<td>Copenhagen, Denmark</td>
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<td>3.</td>
<td>Orlandi’s Succrs, Copenhagen. Plaster casts of Thorwaldsen’s works.</td>
<td>Copenhagen, Denmark</td>
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<td>4.</td>
<td>Society for Encouraging Manual Labor in Homes and Schools, Copenhagen. Model, drawings and utensils for a wood carving class.</td>
<td>Copenhagen, Denmark</td>
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<td>5.</td>
<td>Tejsen, Miss Maja, Copenhagen. Drawing system for feeble minded children.</td>
<td>Copenhagen, Denmark</td>
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<th>Group</th>
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<td>6.</td>
<td>Aamodt, Axel E., Copenhagen. Books.</td>
<td>Copenhagen, Denmark</td>
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<td>7.</td>
<td>Bagge, Fr. Copenhagen. Illustrated books.</td>
<td>Copenhagen, Denmark</td>
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<td>8.</td>
<td>Bang, August, Copenhagen. Books.</td>
<td>Copenhagen, Denmark</td>
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<td>12.</td>
<td>Bording, F. E. Copenhagen. Trade-printing.</td>
<td>Copenhagen, Denmark</td>
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31. Rom, N. C., Copenhagen.  
   a Books.  
   b Designs for home and school work.  
   c Maps.  
   Dept. 854
   Royal Danish Geographical Society,  
   Royal Society of Northern Antiquities,  
   863
35. Siersted, Th., Copenhagen. School maps.  
   Dept. 864
36. Society for Promoting the Publication of  
   Books, Copenhagen. Books and publica- 
   tions, papers from members; binding  
   from special designs by Danish artists.  
   Dept. 854
37. Staggemeier, A., Copenhagen. Apparatus for ascertaining geographical positions.  
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   Dept. 864
39. Truelsen, Martinus, Copenhagen.  
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   Dept. H 871
44. Knudsen, Cornelius, Copenhagen. Barometer.  
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45. Lonborg, Chr., Copenhagen. Photographs.  
   Dept. H 871
46. Muller's, Budtz, Succrs., Copenhagen. Photographic apparatus, photographs, etc.  
   Dept. 871

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47. Norholm, A., Copenhagen. Compasses.  
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   Dept. H 871
49. Steen, Miss Mary, Copenhagen. Photographs of Royal Danish castles.  
   Dept. H 871
50. Stolten & Simonson, Copenhagen. Photographs exhibited on aristo paper.  
   Dept. H 871
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52. Zermekren, Johannes, Copenhagen. Calculating machine.  
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53. Hoekendorff, P., Copenhagen. Wafer stamps for office use.  
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54. Mattat, C. P., Copenhagen. Stamps for office use.  
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   Dept. H 898

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56. Royal Geographical Society, Copenhagen. The Society's periodical for four years.  
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57. Loffler, J. B., Copenhagen. Illustrated works on Danish church history.  
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   Dept. 930

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5. Brehner'sche, Dr. Hellanstat fuer Lungen Kranke, Goerbersdorf, Silesta.  
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17. Koehler, Dr. med. Jean, Freiburg i-Baden. Combustible pocket telescoping spittoon.  
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22. Mueller, Uri, Ludwig, Coburg. Reproductions of diseases of the eye. 830


25. Schuster, Carl, Berlin. School bench with folding plate and apparatus for physical culture. 842


27. See & Soolbad, Kolberg. Thermal literature. Dept. A 829


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33. Bauriedel, P. G., Nuremberg. Wafers. 834

34. Bock, Hilmar, Oberweissbach i-Th. Artificial human eyes. 838


36. Dewitt & Herz, Berlin. Surgical instruments, etc. Dept. H 837


38. Ducerhsen, Dr. med. Alfred, Berlin. Anti-septic ligature. 837


40. Fleischer T., Planen, Saxony. Textures for-ligatures. 837


42. Hartmann, Paul, Heidenheim, Wurttemberg. Aseptic and anti-septic ligature. Dept. H 837


46. Kaiserl, Normal, Aichungs, Kommision, Berlin. Complete outfit of a gauger's office. 847


48. Lahr, Eugen, Eschau, Bavaria. a Capsules filled with medical substances. 834

49. Loeb, Bernhard, Jun., Berlin. Eye glasses. 838


51. Mueller, F. Ad. Soehne, Wiesbaden. a Pathological preparations, etc. 894

52. Mueller, Kuller, Christoph, Lanscha i-Th. Artificial eyes. Dept. H 888

53. Mueller, Uri, Ludwig, Coburg. Artificial eyes. 888

54. Ploehn, R., Radebuel, Dresden. Literature and dressing. Dept. H 837

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63. Berliner Hausfrauenverein, Berlin. Model of a school of cooking, manuals. 843

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68. Fischbach, Friedrich, Wiesbaden. Lithographic plates. 469

69. Foerster, Auguste, Frl., Cassel. Utensils for children's schools of cooking. 843

70. Frauenbildungsverein, Breslau. System of instruction and works of the kindergartens. 854

71. Frauenbildungsverein, Eisenach. Description of the system of Froebel's school of sewing. 841

72. Frauenbildungsverein zur Foerderung, Erwerbsthaftigkeit, Breslaus. System of instruction for schools of millinery and dressmaking, work of pupils. 843

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85. Hoffmann & Oehnlein, Leipsic. Manuals for female hand work. 843
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89. Kern's, T. U. Verlag, Breslau. Works on natural science, illustrated and playbooks. 845
90. Kindergarten-Verein, Breslau. Model of a kindergarden. 841
92. Kleinkind Verpflegungs-Anstalt, Stuttgart. Photographs of the "Olga" crib. 846
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94. Klose & Wollmerstaedt, Berlin. Xylographical works. 845
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97. Krantz, Dr. F., Bonn. Collection of models of minerals, relief-maps. 845
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120. Baedeker, Carl, Leipsic. Tourists' guides. 862
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125. Bassermann'sche Buchhandlung, Munich, Books. 854
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27. Engineering, Ltd., London. Set of 54 volumes, framed engravings and album of the Columbian Exposition. 854
28. Engineer, London. Engravings and drawings of ships, locomotives, etc. 854
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<td>Hakluyt Society, London. Publications from 1848 to 1892.</td>
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<td>102.</td>
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80. Lai, Prof. Enrico, Genoa. Accounting. 905
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Among the triumphs recorded at the Exposition is that of labor-saving machinery. The closing decade of the century will be remembered in history as the age of machinery, and the exhibit of this department is of necessity most important and interesting. It is perhaps the most conspicuous and observed of all the departments of the great Exposition, for a fitting close of the ceremonies on the opening day was the starting of the machinery in operation by the President of the United States. Henceforward to the close the machinery will be to the Fair what the lungs are to the human body. Peerless in the ranks of nations which have given to mankind the fruits of invention in mechanical form stands the United States of America, while Europe has spared no pains to prove that her artificers have not lost their skill, and that in the great competition the Old World is still abreast of the new. The extent of the space under roof in the building devoted to the display of machinery, nearly eighteen acres, is a proof of the appreciation of the importance of this branch of the Exposition.

The Machinery Building, or, as it is officially termed, the Palace of Mechanic Art, is located at end of the park, the shore of Lake west line of the south of the Admin, and west and from the Agricultural Building. The main building is 850 feet long and with the Main Power-house, 000. The building three arched exterior presents the three railroad by side. These are about 50 feet spans about 125 naves are lighted above by large the center, three covering an open square, take the Outside of this naved room on the south runs a 50-story building. This opens directly into the main hall; both on the first floor, and on the second floor on the north and east fronts, forming a great gallery.

There are two main entrances to Machinery Hall: One on the north, facing Administration Building, and one on the east, facing Agricultural Hall. In each of the four corners of the building is a domed pavilion containing a grand staircase, and there are other staircases adjacent to the two grand staircases referred to. There are other entrances along the sides and ends of the main hall and annex, giving ample accommodation for the immense crowds.

The Annex Building contains three naves and runs 550 feet to the westward, carrying out the long naves formed by the trusses in the main building.

On the south of the main building for its whole length is a one-story structure, which contains the vast steam and electrical plant which supplies power and light to the whole of the Exposition buildings and grounds.
The whole of Machinery Hall, throughout, rests upon planking and trestle-work foundations. Its frame is very largely of wood, but the main trusses spanning the building are of iron, and are of such width that they will be serviceable in the future in the construction of railroad train-houses. The main building and annex added together will give a perspective of nearly 1,400 feet in a straight line. In each of the naves an electric-traveling crane moves from one end to the other. These are used for installing and moving the machinery exhibits. Platforms have been built on these traveling cranes, and they are used to carry visitors.

The exterior of the building is covered with staff, which is used for the covering of all the other buildings at the Exposition. In the figure and ornamental work every attempt has been made to indicate the purpose of the building, the statues representing mechanical forces, or carrying portraits, or the names of inventors.

Running the entire length of the main building and the annexes are three avenues or aisles, the center one twenty-five feet wide and the sides each fifteen feet in width. At the western extremity of these aisles enter the tracks of the auxiliary railroads for the conveyance of heavy machines to the first cross-aisle, from which the traveling cranes carry them.

The comprehensive character of the display to be seen in this branch of the Exposition is apparent from the classification. Eleven groups, comprising eighty-six classes, are devoted in the general classification to the department of machinery. Among these eighty-six classes are found almost every known mechanical device.

Holbrook Fitz-John Porter is assistant chief of the Machinery department, and shares with the chief the responsibilities of his position and represents him in his absence. Mr. Porter has been connected with the Exposition almost from the start. He was first assistant mechanical engineer in the Construction department during the time when the principal problems of a mechanical nature were being solved, and was transferred to the Machinery department when that department assumed shape. Mr. Porter is the son of Gen. Fitz-John Porter, and was born in New York City in 1858. Mr. Porter is a member of the American Society of Mechanical Engineers and of local engineering societies, and is the author of many engineering articles written for these societies and technical journals.

Departmental regulations provide that:

Exhibitors must be manufacturers or producers of machinery, and not dealers only. No machinery on exhibition can be allowed to run longer than is necessary for that purpose, except by special permission of the chief of the department. Steam pressure supplied is 125 pounds per square inch above the atmosphere. Exhibitors requiring a lower pressure obtain it by using a reducing valve. The line shafting makes 250 and 300 revolutions per minute, and is placed fourteen feet nine inches from the center of shaft to floor of building. Driving pulleys on main line of shafting are supplied by exhibitors, and are in halves and limited to thirty-six inches in diameter, and are secured in a manner that will not weaken the shaft.

The main lines of steam, water and sewer pipe are provided, but all connecting pipes, valves, etc., are supplied by the exhibitor. The water pressure is that due to a head of 200 feet, or a pressure of about 86 pounds per square inch. The Chief of the Department has the care and supervision of the main shaft, but all gear supplied by exhibitors is under their care, who also select persons to attend to their machinery, and who alone are allowed to operate it. Exhibitors furnishing machinery, such as engines, boilers, etc., for the use of the Exposition, may select their own men to operate them, subject to the approval of the Chief of Construction.

Fire engines entered for exhibition, offered and accepted for use, are properly cared for and furnished with fuel free of expense. All platforms, counters, ornamental partitions, show cases and appurtenances of approved design, have been erected at the expense of the exhibitor, and have not exceeded the following dimensions, without special permission of the Chief of Department:

Show cases 15 feet above the floor.
Counters, 2 feet 10 inches above the floor on the side next to passage-way.
Platforms, 1 foot above the floor.
Partitions of various heights, not exceeding 15 feet, of approved design, may be erected in certain parts of the building.
All exhibits of machinery in motion must be inclosed by a railing of uniform height of 2 feet 6 inches, the railing to come within the space.
No fire is allowed in Machinery Hall except by special permission of Chief of Department. Not more than a day's supply of oils and other inflammable material is permitted in the building, but a suitable place is provided for the storage of the same.
Permits are issued by the Chief of Department to bring in raw material required for the successful operation of certain exhibits, and such articles as may be required by concessions and privileges before fifteen minutes of the opening of the Exposition in the morning. Also for the removal of such articles and products as come within the regulations.
The location of exhibits in Machinery Hall is indicated by the rows of columns and the number of the nearest column in a row. The rows are lettered A, B, C, D, etc., from the south side, and the columns numbered 1, 2, 3, etc., from the east end.
All exhibits of machinery in motion must be protected by ornamental railings of a uniform height of two feet six inches.
No fire will be allowed in the Electrical Building except by the written permission of the Chief of the Department; oils and inflammable material will be allowed only in quantities sufficient for one day's use; suitable storage will be provided for the same.
Exhibitors may employ watchmen to take care of their machinery and exhibits at night, but such watchmen will be subject to the approval of the Chief of the Department.
The distribution of cards, circulars, pamphlets or samples about the building or its vicinity, will not be permitted under any circumstances. Exhibitors can distribute such articles only from their own space, but will not be allowed to solicit their acceptance.
All exhibitors are required to attach to each exhibit a printed or type-written description in the English language, of the use and operation of the object exhibited for the information of the public.
Manufacturers and Exporters of...

Windmills, Iron Pumps
Hydraulic Well Machinery, Water Tanks and Fixtures.

STAR MILL.

This Mill is manufactured in sizes from 10 to 26 ft. in diameter and is especially adapted for pumping purposes. The simplicity of its construction recommends it as possessing more points of merit than can be found in any other make. **Note this fact:** The Star Mill is universally conceded to be the acme of perfection as regards mechanical construction, durability and power, which demonstrates clearly its leadership in the van of the Windmill trade.

STEEL STAR WINDMILLS GALVANIZED and STEEL TOWERS GALVANIZED.

The Steel Star Windmill has been thoroughly demonstrated a success, being simple and symmetrical in its construction. We furnish these Mills either painted or galvanized, the latter being superior, as this process of finishing protects them from air and moisture, which practically makes them indestructible.

The Steel Towers we furnish galvanized, and are of a heavier quality than that used by any other company.

IRON FORCE AND LIFT PUMPS, PAINTED OR GALVANIZED.

We are the only manufacturers of Pumps in America to-day who can furnish a full line of these goods galvanized, and it is not necessary to eulogize this method of finishing as it is apparent.

CYLINDERS.

We also make a full line of Pump Cylinders varying in size from 2 to 6 inches in diameter, and from 10 to 20 inches long, of iron, brass lined iron, brass body and all brass. Having double packed plungers they are superior to any other line of cylinders on the market.

HOOSIER WELL MACHINERY and TUBULAR WELL TOOLS.

There is no Well Machine and Tubular Well Tools combined that contain so many points of excellence as the "Hoosier," and are designed for making wells averaging in depth from 1 to 600 ft.

We also carry a full line of Pipe, Casing, Brass Goods, Fittings, Hose, and a general stock of goods used in raising and conducting water.

We solicit your correspondence, and on application will be pleased to mail you descriptive catalogues, etc.

Address

Flint & Walling Mfg. Co.,
KENDALLVILLE, IND.,
ST. LOUIS, MO., or, COLUMBUS, OHIO.
The exhibits in the Department of Machinery are installed in Machinery Hall proper, in the Power Station, Pump House, Machine Shop, Saw Mill Building, Boiler House Extension, Oil Pump House, and in an out-of-door space near the main building. In the location of exhibits, the following abbreviations are used: "PP."—Power Plant; "PS."—Power Station; "PH."—Pump House; "MS."—Machine Shop; "ODS."—Out Door Space; "LS."—Line Shaft; "SM."—Saw Mill; "BH."—Boiler House; "OPH."—Oil Pump House; "FEH."—Fire Engine Houses; "Ph. of E. Ry."—Power House of Elevated Railway; "MP."—Midway Plaisance; "B. S. Ry."—Barre Sliding Railway. The power plant, adjoining the main building, is divided into sections lettered from A to O. The boiler house, on the south, has six numbered divisions, and the divisions of the boiler house extension are numbered from A to E. The east end of the main building is occupied by foreign countries, their various locations being indicated on the floor plan. The main building is divided into numbered sections, as indicated in the plan. The columns are lettered from south to north, from A to T, and from east to west they are numbered from 1 to 55. Hence, each column bears both a letter and a number. An exhibit located at "28-N-46" is in Section 28, near the post or column lettered "N" on the north and south line, and 46 on the east and west line.
CLASSIFICATION.

MACHINERY DEPARTMENT (F).

GROUP 69.
MOTORS AND APPARATUS FOR THE GENERATION AND TRANSMISSION OF POWER—HYDRAULIC AND PNEUMATIC APPARATUS.

Class 413. Boilers and all steam or gas generating apparatus for motive purposes.
Class 414. Water wheels, water engines, hydraulic rams.
Class 415. Steam, air and gas engines.
Class 416. Apparatus for the transmission of power—shafting, hangers, belting, pulleys, couplings, clutches, cables, gearing. Transmission of power by compressed air, etc.
Class 417. Pumps and apparatus for lifting and moving liquids, water filters. (See also Department E.)
Class 418. Pumps and apparatus for moving and compressing air or gas. (See also Department E.)
Class 419. Pumps and blowing engines, blowers and ventilating apparatus. (See also Department E.)
Class 420. Hydraulic presses, freight elevators and lifts. Traveling cranes and derricks. (See also Department E.)
Class 421. Beer engines, soda water machines, bottling apparatus, corking machines. (See also Department A.)
Class 422. Iron and other metallic pipes, tubes and fittings, stop valves, cocks, etc.
Class 423. Diving apparatus and machinery.
Class 424. Ice machines. Refrigerating apparatus.

GROUP 70.
FIRE ENGINES—APPARATUS AND APPLIANCES FOR EXTINGUISHING FIRE.

Class 425. Engines.
Class 426. Hose-carts and hose.
Class 427. Ladders and escapes.
Class 428. Standpipes, etc.
Class 429. Chemical fire-extinguishing apparatus.

GROUP 71.
MACHINE TOOLS AND MACHINES FOR WORKING METALS.

Class 430. Small tools for machinists' use, drills, taps and dies, gauges, etc.
Class 431. Squares, rules and measuring tools.
Class 432. Steam hammers, trip-hammers, drop forging and swaging machines, hydraulic forging, etc.
Class 433. Planing, drilling, slotting, turning, shaping, milling, punching and cutting machines. Wheel-cutting and dividing machines.

GROUP 72.
MACHINERY FOR THE MANUFACTURE OF TEXTILE FABRICS AND CLOTHING.

Class 434. Machines for the manufacture of silk goods.
Class 435. Machines for the manufacture of cotton goods.
Class 436. Machines for the manufacture of woolen goods.
Class 437. Worsted working machinery and appliances.
Class 438. Machines for the manufacture of linen goods.
Class 439. Machines for the manufacture of rope and for twine-making and for miscellaneous fibrous materials.
Class 440. Machines for paper-making and felting.
Class 441. Machines for the manufacture of India-rubber goods.
Class 442. Machines for the manufacture of mixed fabrics.
Class 443. Machines used in the manufacture of tapestry, including carpets, lace, floor cloth, fancy embroidery, etc.
Class 444. Sewing machines for heavy materials.
Class 445. Machines for preparing and working leather.
Class 446. Machines for making boots and shoes.

GROUP 73.
MACHINES FOR WORKING WOOD.
(See also Departments A and E.)

Class 447. Direct-acting steam sawing machines, with gang saws, band saws, circular saws.
Class 448. Sawmills and sawmill tools.
Wood-working machinery for sawmills
Wood-working tools and minor appliances for sawmills.

Class 449. Planing, sawing, veneering, grooving, mortising, tonguing, cutting, molding, stamping, carving and cask-making machines, etc.; cork-cutting machines. Lathes for wood-work and machinery for the manufacture of matches, toothpicks, etc.

GROUP 74.
MACHINES AND APPARATUS FOR TYPE SETTING, PRINTING, STAMPING, EMBOSsing, AND FOR MAKING BOOKS AND PAPER WORKING.

Class 450. Steam-power presses.
Class 452. Job presses.
Class 453. Hydraulic presses.
Class 454. Ticket printing and numbering machines.
Class 455. Type casting and setting machines. Linotypes.
Class 456. Hand-casting molds.
Class 457. Machines and printing blocks.
Class 458. Typographic electrotyping.
Class 459. Stereotyping.
Class 460. Bookbinding machinery.
Class 461. Envelope machines.
Class 462. Paper cutters, card cutters.
Class 463. Printers' cabinets and printers' furniture generally
Class 464. Composing sticks, cases.
Class 465. Brass and type metal labor-saving appliances.
Class 466. Specimens of plain and ornamental types, cuts, music, borders and electrotype plates.
Class 467. Type-founders' specimen books of type and typographical ornaments.
Class 468. Miscellaneous machinery used by printers and newspapers not otherwise specified. Folding machines, addressing, stamping, embossing, etc.

GROUP 75.
LITHOGRAPHY, ZINCOGRAPHY AND COLOR PRINTING.

Class 469. Lithography—Tools, materials and appliances. The various methods of lithography, crayon, pen and ink; engraving, brush work, color printing, etc. Transferring, printing. Zinography.

Class 470. Color printing—Historical illustrations from the 16th Century to the present time. Relief engraving. The old chiaro-oscuri. Modern wood-engraving. The Baxter process. Intaglio engraving, printed at one impression, i.e., from the plate rubbed in different colors, printed from several plates. Stenochromy. Chromolithography. Wax process, etc. The modern photo-mechanical processes applied to color printing.)

GROUP 76.
PHOTO-MECHANICAL AND OTHER MECHANICAL PROCESSES OF ILLUSTRATING, ETC.

Class 471. Relief processes—Photo-mechanical processes producing relief blocks for printing in the type-press (etching, swell-gelatine and washout processes). Line processes (photo-typographic etchings, typo-gravures, etc.).

Class 472. Half-toned processes—Gelatine grain processes. (Paul Pretsch's and later.) Screen processes. (Meisenbach, etc.) The Ives process.

Class 473. Photo-lithography, etc.—Photo-mechanical processes involving the production of printable designs on stone or zinc; i.e., photo-lithography and photo-zincography. Half-toned processes (the Bitumen process, Poitevin's process, Asser's process, etc.). Recent grain processes. Screen processes. Line processes. (Osborne's process.)

Class 474. Collographic processes—Photo-mechanical processes, involving the production of gelatine or other glutinous films, to be used as printing surfaces in the lithographic press; i.e., collographic or photo-gelatine processes (albertype, heliotype, arto-type, etc.

Class 475. Photo-mechanical processes—Producing intaglio plates for printing in the copper-plate press; i.e., photo-gravure. Etching processes, deposit processes, heliotypes, heliogravures, etc. The Woodbury type-molds and impressions.

Class 476. Mechanical processes—Partly chemical, partly mechanical, devised as substitutes for the other hand processes, but not involving photography. Chalcotype, Comte process, Gillot process, etching in relief, typographic etching, properly so-called (chemotype, the graphotype, koalotype, the wax process and allied processes (glyphography, xerography, stylography, typographic etching, improperly so-
called, etc.) Machine relief engraving, machine intaglio engraving (medal ruling), galvanography, stenochromy, mineralography, nature printing, the anastatic process, etc. Appendix. Etching on glass (improperly so-called, which involves photography, but not the use of the press).

Class 477. Drawings for process work.

Class 479. Applications of the photo-mechanical processes in the industrial arts—Prints on metal work, cloth, etc.

GROUP 77.

MISCELLANEOUS HAND TOOLS, MACHINES AND APPARATUS USED IN VARIOUS ARTS.

Class 480. Machines for making clocks, watches and watch cases.
Class 481. Machines for making jewelry.
Class 482. Machines for making buttons, pins, needles, etc.
Class 483. Wire-working machinery.
Class 484. Machines for ironing, drying, scouring and laundry work generally.
Class 485. Machines for making capsules and other pharmaceutical products.
Class 486. Machines used in various manufacturing industries not specifically mentioned.
Class 487. Emery and corundum wheels.
Class 488. Street rollers, sweepers and sprinklers.
Class 489. Steam guages, oil cocks and all kinds of appliances used in connection with machinery.
Class 490. For testing the strength of materials. Dynamometers.

GROUP 78.

MACHINES FOR WORKING STONE, CLAY AND OTHER MINERALS.

(See also Department E.)

Class 491. Stone-sawing and planing machines, dressing, shaping and polishing, sand blasts, Tilghman’s machines, glass-grinding machines, etc.
Class 492. Brick, pottery and tile machines. Machines for making artificial stone.
Class 493. Rolling-mills and forges—roll trains, hammers, squeezers, engines, boilers and other driving power; heating furnaces (coal and gas), special machines for shaping metal, such as spike, nail, and horseshoe machines; tire mills, etc.

GROUP 79.

MACHINERY USED IN THE PREPARATION OF FOODS, ETC.

Class 494. Mills for the preparation of cereals.
Class 495. Sugar-refining machines. Confectioners’ machinery.
Class 496. Oil-making machinery; presses and stills.
Class 497. Mills and machinery for spices, coffee, etc.
Class 498. Evaporating machinery for condensing milk, etc.
ANNUAL SALES $3,000,000.

THE EDWARD P. ALLIS COMPANY
RELIANCE WORKS,
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MANUFACTURERS OF...

THE REYNOLDS' GORLISS ENGINE
FROM 25 TO 4,000 HORSE POWER.

Compound Engines,
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Flour Mills of any size, complete with motive power, furnished in running order under a guarantee of results.

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CIRCULAR MILLS, GANG EDGERS, STEAM NIGGERS,
CARRIAGES, TRIMMERS, STEAM FEEDS,
RELIANCE DOGS, SHINGLE MACHINES, LATH BOLTERS,

And a complete line of high grade Saw-Mill Machinery.

SEPARATE CATALOGUES ON ANY OF THE ABOVE MENTIONED MACHINES.
Department F.—Machinery.

UNITED STATES.

GROUP 69.
Motors and Apparatus for the Generation and Transmission of Power—Hydraulic and Pneumatic Apparatus.

   a Boilers, water pipe. BH.—1 413
   b Pipe for water works, etc. 26-O-28 422
   Leather belting, belt truck. 26-J-28 416
   Steam engines.
   F-E-13 & P H. of E. Ry. 415
   For exhibit see page 450.
   Pumps. W. ex. 417
   a Boilers and engine heaters. 8-A-44 413
   b Fire pump and piston pump. 417
   a Engines, hoisting machines. 415
   b Derrick with 420
   Leather link belts. 15-F-37 & PP. 416
10. American Well Works, Aurora, Ill.
    Engines, pumping machinery. 26-K-30 417
    PP.—H-D-22 & N-A-37
    a Boilers. 413
    b Engines. 415
    Boilers. BH—6 413
    PP.—P-E-5 415
    PP.—E-A-11 415
    Engine. PP.—N-E-37 415
    Engine. LS.—32-S-43 415
    Spray pumps, windmill pumps, etc. 14-J-36 417
    Shafting. Dept. G 416
    15-H-27 416
23. Bliss & Laughlin Falls, Harvey, Ill.
    Shafting. 8-B-47
26. Brightman Stoker Co., The, Cleveland, Ohio. Mechanical stoker furnace. BHE.—D 413
27. Bratham, George A., & Son, Philadelphia.
    Speed and rower generator and intermediate motor. 26-O-31 413
28. Buffalo Steam Pump Co., Buffalo, N. Y.
    Pumps, machinery. 26-K-29 417
    Brass goods and pumps. 22-K-44 422
32. Bushnell, G. H., Co., Thompsonville, Conn.
    Filter presses. 417
    Power transmitting machinery. 26-O-31 416
    Boiler. BH.—5 413
    Pumps and engine. 26-K-31 417
36. Carlson, Conrad, Brooklyn, N. Y.
    Hod elevating system. 26-O-29 420
37. Challenge Windmill & Feed Mill Co., Batavia, Ill.
    Pumps. Dept. A 417
38. Chambers, Cyrus, Jr., Overbrook, Pa.
    Steam engine. 34-P-36 415
    Blowers, forges, etc. 27-N-34 419
    Steam valves. BH—8 422
    Steam valves. PH, W. D. Ry. Co. 422
42. Chicago Automatic Scale Co., Chicago.
    Grain weighing machine. 26-O-28 420
    30-Q-50; PP.—J. SM—1 & 2 416
For exhibit see page 679.
46. Cleveland Faucet Co., Cleveland, Ohio. a Air compressors 27-O-38 418
b Physicians’ atomizing apparatus and beer preserving device. 421
47. Con颖kroo Steam Boiler Works, Brooklyn, N. Y. Broilers, BHE.—B 413
49. Combination Flue Boiler Co., Milwaukee, Wis. Boilers. 15-F-31 415
52. Crane Elevator Co., Chicago. a Hydraulie machines, piston and cag es. 29-L-51 & West Wall 414
b Steam engines. 415
c Power pump. 417
d Elevators. 420
53. Crane Co., Chicago. Steam, water and gas supplies. 26-O-28 429
For exhibit see page 486.
54. Davidson, M. T., Brooklyn, N. Y. Pumps. BH.—4 417
59. Dickinson, H., & Son, Lowell, Ind. Water purifier pump. 27-L-34 417
For exhibit see page 435.
63. Eddy Valve Co., Waterford, N. Y. Fire hydrants and valves. 26-K-28 422
67. Fales, Edward, Boston. Grate bars. BHE.—D 422
68. Falkenau, Arthur, Philadelphia. a Pump 28-K-11 417
b Hoisting winch. 420
70. Farquhar, A. B., Co., York, Pa. Engines. 14-F-33 415
72. Field Feed Water Purifier Co., Chicago. Heater and purifier. BH.—6 415
For exhibit see page 444.
75. Franklin Portable Crane & Hoist Co., Franklin, Pa. Crane hoist. 26-O-30 420
76. Fraser & Chalmers, Chicago. -Mining engine. 25-K-23 415
Engine PP.—F-A-14 415
77. Frick Co., Waynesboro, Pa. Ice machines. 26-O-29 424
78. Funk Steam Boiler & Iron Works Co., La Crosse, Wis. Feed water heater. OPH. 413
b Electric pumps. 417
c Electric air compressor. 418
d Electric blowers and fans. 419
e Lifting magnets, electric hoists and traveling cranes. 420
85. Gray, Thos. F., Monroeville, Ohio. Elevator and grain scale. 26-O-29 420
86. Hanson, Thomas, New York. Hydraulic rams. 27-K-36 417
88. Hayes Pump & Planter Co., Galva, III. Force pumps, wind mills and power pumps. 25-L-34 417
91. Heine Safety Boiler Co., St. Louis. Boilers. BH.—3 413
   Cold Storage and Dairy Bldg. 424
94. Hoffman, J. G., Chicago. Hand fan blowers. 27-L-33 419
97. Jeffrey Mfg. Co., Columbus, Ohio. Conveyors, elevators, etc. 26-O-31 420
101. Kane, Thos. & Co., Chicago. Engines. 15-F-50 415
104. Kroschells & Bourgeois, Chicago. Feed water heater. BH 413
105. Laidlaw & Dunn Co., Cincinnati. Pumps. PP 417
106. Lake Erie Engineering Works, Buffalo, N. Y. PH—Intr. R. R. 415
108. Lawrence Machine Co., Lawrence, Mass. Centrifugal pump. PP 417
111. Lippincott, Chas. & Co., Philadelphia. Soda water machinery. 27-O-37 421
113. Maris & Beekey, Philadelphia. Cranes, hoists, etc. 26-O-30 420
116. McGowan, John H., Co., Cincinnati. Pumps, compressors, etc. 27-K-36 417
117. McIntosh, Seymour & Co., Auburn, N. Y. Compound condensing engine. 27-K-47 417
120. Morgan Engineering Co., Alliance, O. 0. a Traveling crane. Dept. F 420
121. Morse Rotary Engine Co., Boston. Engine. 27-L-37 415
124. National Electric Valve Co., Cleveland, Ohio. Electric valves. F. P. H 422
125. National Meter Co., Brooklyn, N. Y. Gas engines, air compressor. 15-F-50 415
126. National Supply Co., Chicago. Fuel oil burners. PP—Intramural R. R., S. C. W., 0. P. S., etc. 413
129. Nixon, Miles G., Chicago. Oil engine. 15-F-31 415
130. Norwalk Iron Works Co., South Norwalk, Conn. Air compressor. PP.—L-E-30 418
134. Oneida Mfg. Chucks Co., Oneida, N. Y. Chucks and gears. 28-N-46 416
135. Osterlein, W., Cincinnati. Clutch pulleys and coupling. 15-1-28 416
139. Popple, Henry, & Son, East Newark, N. Y. Belting. 15-H-27 416
143. Puffer, A. D., & Sons, Boston. Soda water machinery. 27-O-37 421
144. Racine Cement & Pipe Co., Racine, Wis. Sewer and culvert pipe. W—O-D-S 422
145. Reeves Pulley Co., Columbus, Ind. Pulleys. 15-H-27 416
147. Reliance Gauge Co., Cleveland, Ohio. Alarm for steam boilers, floats for high pressure steam service and water separating valves. BH—3-5-7 418
150. Richardson, Chas. H., Gloucester, Mass. Ice crusher. 424
151. Ruble American Blower & Injector Co., Newark, N. J. Blowers, ventilators. 27-O-33 416
156. Schock, Gustav, New York. Beer machinery, malt mill, etc. 421
   a Electric traveling crane. South nave 420
   b Power transmitting machinery. 416
   a Automatic steam vacuum pumps. 412
   b Combination pumps and high pressure test pumps. 417
165. Sioux City Engine Works Sioux City, Iowa. Steam engine. PP 415
167. Snow Steam Pump Works, Buffalo, N. Y. Pumps, OPH & BH—6 417
169. Spiedel, J. G., Reading, Pa. Derrick and chain hoists. PP and in service 420
   a Boilers. 413
   b Engines. 415
173. Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio. a Water wheels, etc. 14-J-37 414
   b Steam pumps. 418
175. Thoen’s, Gerdes & Henderson, New Orleans. Ice machine. W-O-D-S 424
176. Thomas, Joshua, Cleveland, Ohio. a Steam boiler. BH. 413
   b Pump. 417
178. Tuerk Bros., Chicago. Gas burners. 27-K-37 413
179. Tufts, James W., Boston. Soda water machinery. 27-O-37 421
180. Turner Machine Co., New York. a Motors. 14-C-34 415
   b Pumps. 417
   c Compressors. 418
184. United States Wind Engine Co., Batavia, Ohio. Hand and power pumps. 417
   b Clutches and pulleys. 416
187. Vulcan Brass Co., Cleveland, Ohio. Beer pumps, etc. 27-N-37 421
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FINANCIAL STATEMENT.

Authorized Capital, - - - - $1,250,000
Subscribed Capital, - - - - 750,000
Paid-up Capital, - - - -  375,000
Assets (January 1, 1893), - - - -  1,089,219
Surplus above Capital and all Liabilities, - - - - 487,455
Surplus to Policy-holders, - - - -  862,455

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U. S. Four per cent. Bonds, $200,000.

(Market Value, $230,000.)

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Northwestern Department, 33 Washington Ave., North, Minneapolis, Fred. L. Gray, General Agent, W. A. Barnes & Co., Resident Managers.
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Pennsylvania, Southern New Jersey, Maryland, Delaware, District of Columbia, Platt & Hooven, Resident Managers, 400 Walnut St., Philadelphia.
Western Tennessee, 371 Union St., Nashville, James Taylor, General Agent.
Eastern Tennessee and Alabama, Chattanooga, Tenn., Cogswell & Tomlinson, General Agents.
Texas, 3-8 Kampmann Building, San Antonio, Florian, Beall & Etchells, General Agents.
Colorado, Emmet Block, Leadville, T. F. Daly, Gen’l Agt.

Georgia and Florida, 1925 Bay St., Savannah, Georgia, John Sullivan & Co., General Agents.
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- The Women's Temple building, corner Monroe and La Salle Sts.
- Chamber of Commerce building, corner Washington and La Salle Sts.
- Metropolitan building, corner Washington and La Salle Sts.
- Masonic Temple building, corner Randolph and State Sts.
- Columbus building, corner State and Washington Sts.
- Marshall Field & Co.'s building, corner Washington and Madison St.
- The Isabella building, Van Buren, near State St.
- The British building, at World's Fair Grounds, Jackson Park.
- The Pabst Brewing Co.'s Exhibit, in Agricultural Building, Jackson Park.
- The Old Colony building, southeast corner Dearborn and Van Buren Sts.
- The Wachusett building, southwest corner Dearborn and Van Buren Sts.
- The Kthadin building, southwest corner Dearborn and Van Buren Sts.
- The Great Northern Hotel building, corner Dearborn, Quincy and Jackson Sts.
- The Security building, Fifth Ave. and Madison St.
- The Annual building, on Washington, near Clark St.
- The Chicago Herald building, on Washington, near La Salle St.
- The Hartford building, corner Dearborn and Madison Sts.
- The Tacoma office building, corner Madison and La Salle Sts.
- The Pabst office building, Milwaukee, Wis.
- Matthews Bros.' building, Milwaukee, Wis.
- Wisconsin Telephone Co.'s building, Milwaukee, Wis.
- The Equitable building, Denver, Colo.
- The Metropolitan Hotel building, Denver, Colo.
- The Flour Exchange building, Minneapolis, Minn.
- Temple Court building, Minneapolis, Minn.
- Pioneer Press building, St. Paul, Minn.
- German-American Bank building, St. Paul, Minn.
- Eadicott office building, St. Paul, Minn.
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The evils attending the presence of Incrustation and Corrosion in the Steam-Boiler are well known by all practical engineers. That these maladies greatly diminish the life and utility of the boiler, and greatly augment its cost of operation, is conceded by all competent observers. We venture the assertion that no subject connected with steam engineering has offered a more extensive field for the development of inventive genius, than the protection of the boiler from the accumulation of scale and the corrosive influence of feed-waters. All who have prosecuted this subject with studious application, research and experimental labor, unanimously agree that immunity from these agencies can only be acquired by the adoption and use of chemical means; innumerable tests of mechanical contrivances "under the most favorable conditions," demonstrating that their efficacy at best but compared them favorably with the surface blow-off. The demand for an effectual preventive of Incrustation and Corrosion is so general that the market is flooded with numberless nostrums, each advertising their articles "superior" in the superlative degree, and further, to be the latest "Innovation and Discovery in Chemistry." An analysis of these preparations determines their composition to be generally admixtures of caustic alkalies or acids, each predominating, according to the ideas of the manufacturer. This class of "Specifics" finds a ready sale among the careless fraternity of engineers, whose plants offer every evidence of a general lack of attention and care. Among the more cautious and enterprising engineers, these nostrums are seldom used, as periodical examinations of the internal surfaces of the boiler soon reveal the objectional feature of these articles and lead to their abandonment. Among the very few good articles widely known and extensively used among engineers, we believe "Lord's Boiler Compound" is the most conspicuous.

This chemical compound is manufactured by Mr. G. W. Lord, 316 Union St., Philadelphia, Pa., and is generally used among the engineers of this Association; this fact best bespeaks our appreciation of its merit. During an interval of thirty years, Lord's Compound has received favorable recognition and mention in our best Treatises on Mechanics, its use and merit being attested by some thirty eminent and popular authors, among them the following: "The Steam Engine and Indicator," by W. Barnet Le Van of the Franklin Institute; "The American Engineer," Edwards; "The English and American Mechanic," Van Cleve; "The Engineer's Handy Book," Roper; "The Use and Abuse of the Steam Boiler," Roper; "Twenty Years with the Indicator," Pray, and numerous others. All these are authors of reputation.

As a guarantee that the foregoing statement is correct, we understand that the manufacturer will, upon request, accompanied by an order for the Compound, mail any one of these books, costing from $1.00 to $10.00, and also a valuable pamphlet, free of charge. This is an unbounded test of merit.

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SECTION N.
Block 1.
No. 12.

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DEPARTMENT A.—AGRICULTURE.

STATE boards of agriculture and important organizations of farmers have accorded earnest support to this department in the matter of securing satisfactory exhibits of the products of agriculture comprised in the classification of the department; and according to the statement of Chiet Buchanan, the exhibit of cereals, of animal and vegetable fibers, wool, cotton, hemp, flax, etc., is complete and exhaustive. Methods of irrigation and farm management are illustrated by models, etc. The exhibit of farm implements is the most complete ever seen at any Exposition. A typical United States agricultural experiment station is located in the Agricultural Building. Near by this experiment station is an exhibit by the French government illustrating the methods of teaching agriculture employed in that country. The purpose of the department is to convey to the visitor and student a picture of the abundance, variety, development and possibility of the agricultural resources of the world.

The Agricultural Building is one of the most magnificent structures of the Exposition.

The style of classic renaissance near the shore of and is almost sur-lagoons that lead the lake. The 800 feet, its longest east and west, building the de-herioc. The gen-65 feet above side of the main moth Corinthian and 5 feet in diam-corner and from building pavilions center one being The corner pavil-by curtains, form-arcade around the ing. The main through an open-into a vestibule, trance is had to the diameter. This is mammoth glass dome 130 feet high. All through the main vestibule statuary has been placed, illustrative of the agricultural industry. Similar designs are grouped about all of the grand entrances in the most elaborate manner. The corner pavilions are surmounted by domes 95 feet high, and above these tower groups of statuary. The design for these domes is that of three female figures, of herculean proportions, supporting a mammoth globe.

Connected with the Agricultural Building and forming one end of the great colonnade connecting the Agricultural Building with Machinery Hall, is the Assembly Hall. This is on the same level as the Intramural railway station, which forms the center of the colonnade and is reached from the second floor of the Agricultural Building also. It will seat about 700 persons and furnishes facilities for lectures, delivered by gentlemen eminent in their special fields of work, embracing every interest connected with live stock, agriculture and allied industries.
The Dairy Building, by reason of the exceptionally novel and interesting exhibits it will contain, is regarded with great favor by World's Fair visitors in general, while by agriculturists it is considered one of the most useful and attractive features of the whole Exposition. It was designed to contain not only a complete exhibit of dairy products, but also a Dairy School, in connection with which will be conducted a series of tests for determining the relative merits of different breeds of dairy cattle as milk, butter and cheese producers.

The building stands near the lake shore in the southeastern part of the park, and close by the general live stock exhibit. It covers approximately half an acre, measuring 95x200 feet, is two stories high and cost $30,000. In design it is of quiet exterior. On the first floor, besides office headquarters, there is in front a large open space devoted to exhibits of butter, and farther back an operating room 25x100 feet, in which the Model Dairy will be conducted. On two sides of this room are amphitheatre seats capable of accommodating 400 spectators. Under these seats are refrigerators and cold storage rooms for the care of the dairy products. The operating-room, which extends to the roof, has on three sides a gallery where the cheese exhibits will be placed. The rest of the second story is devoted to a café, which opens on a balcony overlooking the lake.

The Dairy School, it is believed, will be most instructive and valuable to agriculturists.

The following are extracts from the special rules and information issued by W. J. Buchanan, Chief, and approved by the Director-General:

Vegetables and other perishable products will be admitted during their season, and may be replaced with fresh specimens when found necessary by obtaining a special permit from the Chief of the Department.

The Chief of the Department reserves the right to order the removal of any vegetable or perishable exhibit, where the exhibit is not properly cared for. Arrangements can be made with the Chief of the Department for the sale of such perishable products as may be necessary to comply with this rule.

A special display of Sugar-beets will be made during the two weeks beginning Monday, October 9, 1893.

A special display of potatoes and other tubers will be made during the two weeks beginning Monday, September 11, 1893.

The space granted each exhibitor is indicated on the permit in feet and inches, together with its location, and is utilized in such manner as the exhibitor has deemed best in arranging his exhibit, under the direction of the Chief of the Department.

All platforms are of uniform height, namely, eight inches. All railings and counters are of uniform height, namely, thirty-six inches above the floor. No partition has been permitted exceeding a six inch in height above the floor. Space is computed to an aisle or to some definite point, and all railings and ornamentations are included therein. No distinct form or design is prescribed for the construction of counters, railings, etc., or for the arrangement of an exhibit (columns, pyramids, cones, etc.).

Exhibits of cereals, and other farm products, are accompanied with the following data and information:

\[\begin{array}{ll}
\text{a. Name of object.} & \text{j. Weight.} \\
\text{b. Name of producer.} & \text{k. Price of product at nearest home market.} \\
\text{c. Place where grown.} & \text{l. Average temperature by months for the time intervening between planting and harvesting.} \\
\text{d. Character of soil.} & \text{m. Average rain or snow-fall by months for the time intervening between planting and harvesting.} \\
\text{e. Date of planting.} & \text{n. Was exhibit produced by irrigation?} \\
\text{f. Quantity of seed planted per acre.} & \\
\text{g. Method of cultivation.} & \\
\text{h. Date of harvesting.} & \\
\text{i. Yield per acre.} & \\
\end{array}\]

Dairy products will be received for exhibition only between the first and tenth of the following months: June, July, September and October, 1893.

The arrangement of all dairy exhibits is under the control of this Department.

Exhibits of butter are classified and limited as follows:

Class 1. Dairy—Butter made by exhibitor on the farm from a mixed herd. Exhibit to consist of not more than one package, weight to be not less than 10 nor more than 20 pounds.

Class 2. Dairy—Butter made by exhibitor on the farm from a herd of one breed. Exhibit to consist of not more than one package, weight to be not less than 10 nor more than 20 pounds.

Class 3. Prints and fancy packages—Butter must be manufactured by exhibitor. Exhibit to occupy space not exceeding 18 inches square. Total weight of exhibit not to exceed 20 pounds.

Class 4. Creamery—Butter made by exhibitor from the milk of mixed herds from cream separated from the milk in the creamery where the butter is made. Exhibit to consist of one commercial package, to weigh not less than 55 pounds.
Class 5. Creamery—butter made by exhibitor from gathered cream. Exhibit to consist of one commercial package, to weigh not less than 55 pounds.

Exhibits of cheese from the United States and Canada are classified and limited, as follows:
Class 1. Cheddars—Exhibit to consist of one cheese, diameter not less than 14 nor more than 16 inches, height not less than 9 inches. Weight to be not less than 50 pounds.
Class 2. Cheddars—Home Trade—Exhibit to consist of one cheese not less than 6 inches in height and not less than 12 nor more than 15 inches in diameter.
Class 3. Mediums—Exhibit to consist of one cheese not less than 6 nor more than 7½ inches in height, diameter not less than 14 nor more than 16½ inches.
Class 4. Flats—Exhibit to consist of one cheese, diameter not less than 14 nor more than 15 inches, weight not less than 30 nor more than 35 pounds.
Class 5. Young American—Exhibit to consist of four cheeses in one package, total weight to be not less than 35 nor more than 40 pounds.
Class 6. Domestic Swiss—Exhibit to consist of one cheese, weight to be not less than 80 pounds.
Class 7. Brick Cheese—Exhibit to consist of six bricks, in one package, total weight to be not less than 20 nor more than 30 pounds.
Class 8. Dairy—Cheese made by exhibitor on the farm from exhibitor’s own herd. Exhibit to consist of one cheese, weight to be not less than 50 pounds.

Cheese, other than that mentioned above, offered for exhibit from the United States and Canada, and all cheese offered for exhibit from points outside the United States and Canada are subject to such limitations and restrictions as may be decided upon by the Chief of the Department at the time application for space is made.

All cheese exhibited from the United States and Canada, known commercially as “American” and “Canadian” cheese, must be manufactured of full new milk.

Cheese that has been hot, bored, or tried in any way, will not be admitted for exhibition.

All cheese will be divided into two classes, that made previous to the year 1893, and that made during the year 1893, and will be judged on the following points, the figures set opposite each indicating the maximum per cent, the total of all such maximums being 100:

<table>
<thead>
<tr>
<th>Flavor</th>
<th>Texture</th>
<th>Color</th>
<th>Salting</th>
<th>Make-up</th>
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Total.................................................................100

Butter will be judged on the following points, the figures set opposite indicating the maximum per cent, the total of all such maximums being 100:

<table>
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<tr>
<th>Flavor</th>
<th>Grain</th>
<th>Color</th>
<th>Salting</th>
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Total.................................................................100

The general standard of color for butter will be “June Grass Butter.”

Exhibits of wool are classified and limited, as follows:

Class 1. Pure-bred fine wools.
Class 2. Pure-bred middle wools.
Class 3. Pure-bred long wools.
Class 4. All cross-bred wools.

The following entries are made in each of the above classes:
First fleeces from lambs. Fleeces from animals over two years old that have been sheared.

Entries in any of the above classes consist of one fleece in the natural condition taken from the animal. Exhibits are accompanied by the following information:

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Exhibits of fleeces from pure-bred Angora and Cashmere Goats, their crosses upon other goats, and from the Alpaca, Vicugna and other lanigerous animals are subject to the same restrictions, and accompanied by information as exhibits of wool.
CALLS ATTENTION TO ITS NEW

"Wood" Iron Glad Slow Speed Alternator.

This Alternator contains the following features of merit: It has the highest electrical efficiency, the best mechanical construction, the most artistic design, and the best ventilated armature ever constructed. The armature is, in fact, indestructible. These dynamos are being manufactured in the following sizes: 750 light, 1,500 light, 3,000 light and 6,000 light capacity.

The new Generator and Motor has the following marked characteristics: High Efficiency, Perfect Self-regulation, Uniqueness and Simplicity of Design, Self-Oiling Expansion Boxes, Self-Contained Multiple Fuses, Anti-Friction and Insulating Sliding Base-Frame, New Patent Fire-Proof and Indestructible Rheostat.

Above apparatus can be seen in operation at our World's Fair Exhibit.

(See Page 645.)
KEY TO INSTALLATION.

For the purpose of installation of exhibits the building is divided, on the first floor, into five sections, "A" being in the northeast, "B" the northwest, "C" the southeast, "D" the southwest, and "E" in the west section. On the second or gallery floor are "F" in the northeast, "G" in the northwest, "H" in the southeast, and "I" in the southwest section. Beginning at the center of the building in each section, each column is lettered from A down the alphabet, toward the outside of the building. Beginning with the outside, and going toward the center of the building, the columns are numbered from 1 up. The columns in each section are lettered and numbered separately; that is, for example, in each section column "1-A" can be found. The location of an exhibit is indicated by two letters and a figure. For instance, an exhibit located in "H-G-5," means that it is in Section H where the lines of the Columns G and 5 cross. By consulting the ground plan the sections can be readily located, as the columns are plainly lettered and numbered. All the agricultural machinery is in Section D. All exhibits of butter and cheese are in the Dairy Building, the butter on the first floor, and the cheese on the second floor. Exhibits of honey are on the gallery floor, in the east end of Agricultural Building. The ground plan shows the location by name of each of the States and foreign countries.
DEPT. OF AGRICULTURE

REFERENCE PLAN FOR LOCATING EXHIBITS IN THE DAIRY BUILDING
WORLD'S Columbian Exposition

COPYRIGHTED 1933, BY THE W. B. CONKEY COMPANY, CHICAGO.
DEPT. OF AGRICULTURE.

REFERENCE PLAN FOR LOCATING EXHIBITS ON THE SECOND FLOOR OF THE DAIRY BUILDING.
WORLD'S COLUMBIAN EXPOSITION.

COPYRIGHTED 1893,
BY THE WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF W. S. DONKEY COMPANY,
CHICAGO.
SYSTEM OF CLASSIFICATION.

AGRICULTURAL DEPARTMENT (A.)

AGRICULTURE, FOOD AND ITS ACCESSORIES, FORESTRY AND FOREST PRODUCTS. MACHINERY AND APPLIANCES.

GROUP 1.

CEREALS, GRASSES AND FORAGE PLANTS.

Class 3. Oats.
Class 4. Barley.
Class 5. Rye.
Class 6. Rice and its culture.
Class 7. Buckwheat and other grains.
Class 8. Grasses, various species; hay and hay-making.
Class 10. Ensilage—silo, etc.
Class 11. Flours, meals, decorticated grains, grits, etc.

GROUP 2.

BREAD, BISCUITS, PASTES, STARCH, GLUTEN, ETC.

Class 13. Cakes and pastry.
Class 14. Biscuit industry, crackers of all kinds.
Class 15. Italian paste, semolina, vermicelli, macaroni, etc.
Class 16. Starch and its manufacture from all sources; from cereals, tubers, arrow root, plantain, cassava, zimia, manioc, tapioca, sago, pearl flour, etc.

GROUP 3.

SUGARS, SYRUPS, CONFECTIONERY, ETC.

Class 17. Sugar cane, its cultivation and treatment; manufacture of sugar.
Class 18. Cane sugar, syrup, molasses, etc.
Class 19. Grape and fruit sugars.
Class 20. Beet root sugar.
Class 21. Maple sugar, syrups, etc.
Class 22. Palm sugar.
Class 23. Milk sugar.
Class 24. Sorghum, its culture and uses, and preparation of syrup and sugar.
Class 25. Glucoses, etc., prepared.
Class 26. Honey bees and honey; hives and appliances.
Class 27. Confectionery, confections, etc. (For jams, jellies, etc., see Group 21.)

GROUP 4.

POTATOES, TUBERS AND OTHER ROOT CROPS.

Class 28. Potatoes, sweet potatoes, yams, etc.
Class 29. Sugar beets, mangel wurzel.
Class 30. Carrots, turnips, beets, artichokes, etc.
Class 31. Peanuts; methods of cultivation, statistics, etc.

GROUP 5.

PRODUCTS OF THE FARM NOT OTHERWISE CLASSED.

Class 32. Broom corn, pumpkins, squashes, pease, beans, as crops. (For garden vegetables, etc., see Group 23.)

GROUP 6.

PRESERVED MEATS AND FOOD PREPARATIONS.

(For fish product as food, see also Group 40.)

Class 33. Dried meats, jerked beef.
Class 34. Smoked beef, hams and bacon.
Class 35. Salted meats.
Class 36. Canned meats, including fish, flesh and fowl, pates, sardines, lobsters, oysters, etc.
Class 37. Meat extracts, soups and food preparations.
Class 38. Extracts of beef.
Class 39. Milk, dried or in cans, evaporated or condensed.
Class 40. Milk and coffee and similar preparations in tin or glass.

GROUP 7.
THE DAIRY AND DAIRY PRODUCTS.
Class 41. Milk and cream, with apparatus and methods of treatment.
Class 42. Butter.
Class 43. Cheese and its manufacture.
Class 44. Dairy fittings and appliances— churns for hand and power, butter workers, cans and
Class 45. TEA, COFFEE, SPICES, HOPS, AND AROMATIC AND VEGETABLE SUBSTANCES.
Class 46. Tea, coffee, cocoa, chocolate and substitutes.
Class 47. Hops; culture, statistics, etc.
Class 48. Peppers, cloves, cinnamon and other spices.
Class 49. Tobacco in the leaf, and tobacco not manufactured.
Class 50. Machines and appliances for the curing of tobacco and for the manufacture of tobacco,
cigars, cigarettes and snuff.
Class 51. Insecticides. Methods and appliances for the destruction of the tobacco worm and
other parasites.
Class 52. Commercial forms of chewing and smoking tobacco.
Class 53. Cigars, cigarettes and snuff.

GROUP 9.
ANIMAL AND VEGETABLE FIBRES.
Class 54. Cotton on the stalk—its several varieties; long and short staples, shown by living ex-
amples, by engravings, photographs, etc.
Class 55. Methods of planting and culture.
Class 56. Machines and appliances for planting, cultivating, picking, ginning and bailing.
Class 57. Cotton seed and its uses.
Class 58. Remedies and appliances for destroying insects.
Class 59. Literature, history and statistics.
Class 60. Hemp, flax, jute, ramie and other vegetable fibres not enumerated, in primitive forms
and in all stages for spinning.
Class 61. Wool in the fleece, in sacks and in bales.
Class 62. Silk worms, silk in the cocoon; apparatus and appliances used in silk culture.
Class 63. Hair as a textile material.

GROUP 10.
PURE AND MINERAL WATERS, NATURAL AND ARTIFICIAL.
Class 64. Distilled water, for use in the arts and for drinking.
Class 65. Spring water, mineral water, natural and artificial.
Class 66. Aerated waters.

GROUP 11.
WHISKEYS, CIDER, LIQUEURS AND ALCOHOL.
Class 67. High wines—whiskey and its manufacture.
Class 68. Rum and other distilled spirits, such as saki, samshoo, etc.
Class 69. Alcohol—pure spirits.
Class 70. Cordials and liqueurs.
Class 71. Bitters and mixed alcoholic beverages.
Class 72. Cider and vinegar.

GROUP 12.
MALT LIQUORS.
Class 73. Preparation of the grain. Malt and extracts of.
Class 74. Beers, ales, porter, stout, etc.
GROUP 13.
MACHINERY, PROCESSES AND APPLIANCES OF FERMENTING, DISTILLING, BOTTLING AND STORING BEVERAGES.
Class 74. Apparatus of fermenting—vats, cellars, etc.
Class 75. Distilling. Ordinary and vacuum stills, etc.
Class 76. Rectifying apparatus and methods.
Class 77. Machinery and appliances for bottling beer.

GROUP 14.
FARMS AND FARM BUILDINGS.
Class 78. Farms and farm administration and management, shown by farms, or by maps, models, records, statistics and other illustrations.
Class 79. Irrigation, drainage methods, machinery and appliances.
Models of fences, construction of roads; literature and statistics.
Class 80. Systems of planting, cultivating, harvesting and fertilizing.
Class 81. Systems of breeding and stock feeding.
Class 82. Farm buildings, houses, barns, stables, etc., shown by reference to special examples, or by models, drawings or other illustrations. Stable fittings.

GROUP 15.
LITERATURE AND STATISTICS OF AGRICULTURE.
Class 83. Statistics of farms; reports of agricultural societies, etc.

GROUP 16.
FARMING TOOLS, IMPLEMENTS AND MACHINERY.
Class 84. Tillage—manual implements—spades, hoes, rakes, etc. Animal power machinery—plows, cultivators, horse hoes, clof crushers, rollers, harrows, etc. Steam-power machinery—plows, breakers, hand-drills, cultivators, etc.
Class 85. Planting—manual implements—planters and hand-drills, hand-seeders, etc. Animal power machinery—grain and fertilizer drills, seeders, planters, etc. Steam power machinery—grain and fertilizer drills, seeders, planters, etc.
Class 86. Harvesting—manual implements—scythes, rakes, forks, grain cradles, sickles, reaping hooks, etc. Animal power machinery—reapers, binders, and harvesters, mowers, tedders, rakes, hay elevators, hay loaders and stackers, potato diggers, corn harvesters, combined harvesters, binding twine, etc.
Class 87. Preparatory to marketing—threshers, clover hullers, corn shellers, winnowers, and apparatus for bailing hay, straw and other products, etc.
Class 88. Applicable to farm economy—Portable engines, wind mills, chaffers, hay and feed cutters, vegetable and root cutters, feed grinders, corn-mills, farm-boilers and steamers, stump extractors, etc.
Class 89. Traction engines and apparatus for road making and excavating, with illustrations.

GROUP 17.
MISCELLANEOUS ANIMAL PRODUCTS—FERTILIZERS AND FERTILIZING COMPOUNDS.
Class 90. Miscellaneous animal products—hides, horns, ivory, bones, scales, tortoise shell, shells, glue, gelatine, etc. Animal perfumes—musk, castorium, civet, ambergris, etc., in their crude state, not manufactured.
Class 91. Hair—for mason's use; for upholsterers, heavy felting, bristles, feathers, down, etc.
Class 92. Fertilizers of living animals: guanos, raw and mixed.
Class 93. Fertilizers of fossil origin. Commercial fertilizers—phosphatic, ammoniacal, calcareous, potash, salts, etc.

GROUP 18.
FATS, OILS, SOAPS, CANDLES, etc.
Class 94. Animal oils and fats—lard, tallow, butterine, oleomargarine, lard oil, whale oil. (For fish oils see also Department D.)
Class 95. Vegetable oils, cotton-seed oil, olive oil, rape-seed oil, linseed oil, palm-oil, etc., with the seeds and residues.
Class 96. Soaps and detergent preparations. (For perfumery and toilet soaps see also Group 87.)
Class 97. Stearine, glycerine, paraffine, etc. Spermaceti, ozocerite, wax, candles, etc.
Class 98. Lubricating oils, axle grease, etc.
F. G. Logan & Co.

4 and 5 Board of Trade,
CHICAGO

Commission Merchants
and Cash Grain Handlers.

PRIVATE WIRES TO THE SEABOARD.
THE NORTHWEST, WEST AND SOUTHWEST.
**DEPT. A.—AGRICULTURE, FOOD AND ITS ACCESSORIES.**

**UNITED STATES.**

**GROUP 1.**

Cereals, Grasses and Forage Plants.

1. American Cereal Co., New York. Farinaceous food, etc. B-D-4 & C-E-5 11
2. Anderson, Neils, Utah. Wheat. 1
3. Baker, G. W., Utah. Wheat. 1
4. Beishaw, Geo., Eugene, Ore. Wheat. 1
5. Chambers, Vermillion, South Dakota. Corn. 2
8. Dickinson, Albert, Company, Chicago. a Pop corn. C-E-O 2 b Agriculture seeds. 8 c Ensilage. 10
9. Duluth Imperial Mill Co., Duluth, Minn. Flour. H-L-6 11
10. Elsworth, Edw., & Co., New York. a Oats. F-G-5 b Buckwheat. 7 c Flour. 11
11. Ferguson, Holden, Missouri. Wheat. 1
14. King, J., Vermillion, South Dakota. Corn. 2
17. Pope, Chas., Glucose Co., Chicago. Meal. G-I-8 11
22. Tiedemann, Chas., Milling Company, O'Fallon, Ill. Flour. H-E-6 11
23. Washburn-Crosby Company, Minneapolis, Minn. Flour. H-C-5 & H-B-2 11
24. Wilson, Samuel, Mechanicville, Pa. Field seeds. C-E-0 8
25. Winterhoff & Wessel, Lansing, Ill. Curled grass. Sec. F 8

**GROUP 2.**

Bread, Biscuits, Pastes, Starch, Gluten, Etc.

30. Canepa Bros., Chicago. Macaroni and other pastes. G-G-7 15
31. Chicago Macaroni Company, Chicago. Macaroni, noodles, etc. F-E-8 15
34. De Muth, J. A., St., Kansas City, Mo. Kneader, biscuit machine. E-C-1 12
38. Kingsford, T., & Son, Oswego, N. Y. Starches. F-G-9 16
40. Middleby Oven Company, Boston. Ovens. E-C-4 12
42. Nebraska City Starch & Cereal Mills, Nebraska City, Neb. Starch and cereals. Sec. F 16
45. Pope, Chas., Glucose Co., Chicago. Starch. G-I-8 16
47. Rumford Chemical Works, Providence, R. I. Baking powder and preparations. F-I-8 16
DEPARTMENT A.—AGRICULTURE.

51. Wilkins, Amos, Coburg, Ore.
   a Grasses. 8
   b Clover. 9

52. Wilkins, M., Coburg, Ore
   a Wheat. 1
   b Oats. 3
   c Barley. 4
   d Rye. 5

GROUP 3.

Sugars, Syrups, Confectionery, Etc.

   a Raw and refined sugars. 17
   b Syrups. 21


55. Chicago Sugar Refining Co., Chicago.
   a Grape sugars. G-I-9
   b Syrups. 18
   c Glucose, gluten, etc. 25


58. Dunbar's, G. W., Sons, New Orleans.
   a Sugar cane. G-E-6 17
   b Syrup in glasses. 18


60. Hastings, Matthew E., New York Mills, N. Y. Bee-keepers' supplies. A-G-5 26


   For exhibit see page 656.


   a Grape sugar. 18
   b Glucose. 25

65. Ohio Maple Sugar & Syrup Exhibit, Maple sugar and syrup. 21


68. Putnam, W. H., River Falls, Wis. Bee-hives. Sec. H 26

69. Root, A. I., Medina, Ohio. Bee-keepers' supplies. H-O-4 26


71. Vermont Maple Sugar Exhibit. Maple sugar and syrup. H-L-9 21


GROUP 6.

Preserved Meats and Food Preparations.


74. American Ready Food Co., Chicago. Condensed soups. F-C-7 37


76. Armour Packing Co., Kansas City, Mo.
   a Canned meats. 36
   b Soups. 37

   a Canned meats. 36
   b Canned soups. 37
   c Extracts of beef. 38
   For exhibit see page 1000.


   a Canned meats. 36
   b Canned soups. 37

   a Deviled ham. F-E-6 36
   b Soups. 37

82. Cutady Packing Co., South Omaha, Neb.
   a Canned meats. 36
   b Extract of beef. 38

   a Canned meats. F-M-8 36
   b Canned vegetables and fruits; plum puddings. 37


86. Eric Preserving Company, Buffalo, N. Y. Canned vegetables. H-L-8 37

87. Fairbank Canning Company, Chicago.
   a Canned meats. D-B-1 36
   b Canned soups. 37

88. Fernald, Keen & True Co., West Poland, Me. Canned sugar-corn. H-J-8 37

   a Canned meats. 36
   b Canned soups. 37


   a Sandwich meats. F-J-9 36
   b Canned soups. 37


   a Potted meats, soups. F-B-8 37
   b Beef extract. 38

   a Dried beef. D-C-0 38
   b Smoked pork, hams and bacon. 34
   c Extracts of beef and hog products. 38

99. National Pure Food Co., Cincinnati. Canned soups, plum pudding, etc. F-F-9 37
100. New York Condensed Milk Co., New
York. Condensed milk, evaporated
cream. G-C-6 \[30\]
101. North Packing & Provision Co.,
Boston. Salted meats. D-D-0 \[30\]
102. North Packing & Provision Co., Bos-
ton. D-B-0 \[30\]
   a Dried beef. \[30\]
   b Hams and bacon. \[30\]
   c Salted meats. \[30\]
   d Tongues, tripe, pigs' feet, sausages and
   pudding. \[30\]
For exhibit see page 425.
103. Schepp, Leopold, New York. Cocoa-
ut. F-F-5 \[36\]
104. Snider, The T. A., Preserve Co., Cin-
cinnati. Soups. F-B-9 \[36\]
105. Societe Faiene Lactee, Vercy, Switz.
Condensed milk. G-G-6 \[36\]
106. St. Charles Evaporated Cream Com-
pany, St. Charles, Ill. Evaporated cream.
H-I-9 \[36\]
107. Straus, Elie, St. Louis. Food prep-
arations. H-Y-8 \[36\]
D-E-0 \[36\]
   a Dried beef. \[30\]
   b Hams and bacon. \[30\]
   c Salted meats. \[30\]
   d Beef extracts; beef and hog prod-
   ucts. \[36\]
   e Fresh meats. \[36\]
   a Canned meats, patés, game, etc. \[36\]
   b Soups and plum pudding. \[36\]

GROUP 7.
The Dairy and Dairy Products.
Creamers. H-J-1 \[36\]
111. Andrews, N. S., Dubuque, Iowa.
Churns, milk testers. D-I \[36\]
112. Baldwin Woodenware Co., La
Fayette, Ind. Churns. I-E-1 \[36\]
   a Creamer. \[36\]
   b Cream and cheese vats. \[36\]
Churns. I-G-1 \[36\]
115. Columbia Cream Separator Co., Avon,
N. Y. Cream separators. I-D-1 \[36\]
116. Cornish, Curtis & Greene Mfg. Co.,
Fort Atkinson, Wis. Dairy implements.
I-K-1 \[36\]
117. Cross, Isaac T., & Co., Watertown,
N. Y. Churns. H-I-1 \[36\]
Dairy supplies and fittings. H-I-2 \[36\]
119. Davis & Rankin Building & Manufac-
turing Co., Chicago. Dairy machinery.
I-F-1 \[36\]
Cream separators, churn attachments.
I-H-1 \[36\]
121. Deucher, H. P., Company, Hamilton,
Ohio. Churn. E-R-10 \[36\]
122. Diamond Balance Churn Co., Ballston,
N. Y. Churns. H-D-1 \[36\]
123. Dickson, Charles J., Margaretville, N.
Y. Cream raiser and cream heater.
I-E-1 \[36\]
Dog biscuit. \[41\]
125. Embree, P., & Son, West Chester, Pa.
Butter worker. I-C-1 \[44\]
Butter worker. I-C-1 \[44\]
127. Evans & Heulings, Haddonfield, N. J.
Dairy supplies. I-L-1 \[44\]
128. Flint Cabinet Creamery Co., Flint,
Mich. Creamery supplies. I-H-1 \[44\]
H-B-1 \[44\]
130. Hansen's, Chr., Laboratory, Little
Falls, N. Y. Dairy supplies. E-I-1 \[44\]
Ice cream freezers. H-C-1 \[44\]
H-L-1 \[44\]
133. Leonard, Orin, Belvidere, Ill. Cream
cooler. H-G-1 \[44\]
134. Ludington Woodware Co., Ludin-
tong, Mich. Butter molds, etc. H-K-1 \[44\]
135. Magic Freezer Co., Chicago. Ice
cream machines. H-J-1 \[44\]
136. Marquis, James B., Norwich, N. Y.
a Butter. I-L-1 \[42\]
b Cheese manufacture. \[43\]
137. Mears, C., & Son, Bloomsburg, Pa.
Churn. H-G-1 \[44\]
138. Moseley & Pritchard Mfg. Co., Clint-
ton, Iowa. Dairy supplies. I-C-1 \[44\]
139. North Western Butter & Cheese Co.,
Romeoville, Ill. Cheese. Dairy Bldg. \[43\]
140. Reid, A. H., Philadelphia. Dairy ap-
pliances. I-N-1 \[44\]
141. Romney, Caroline Westcott, Chicago.
Milk cooler. I-L-1 \[41\]
141a. St. Charles Evaporated Cream Co.,
St. Charles, Ill. Evaporated cream. \[39\]
142. Scoville, E. U., Manlius, N. Y. Fauc-
cets. I-F-1 \[44\]
143. Sharples, Philip M., Elgin, Ill. Cream
separators. H-I-1 \[44\]
144. Simpson, McIntire & Co., Boston.
Butter in sealed tins. H-G-8 \[42\]
Butter color. I-B-1 \[44\]
146. Thatcher Mfg. Co., Potsdam, N. Y.
Dairy supplies. I-K-1 \[44\]
Milk aeration. H-L-1 \[41\]
148. Vermont Farm Machine Company,
I-M-1 \[44\]
149. Watson, Abraham, New York. Ice
cream freezers. I-C-1 \[44\]
150. Wells & Richardson Co., Burlington,
Vt. Butter and cheese color. I-J-1 \[44\]

GROUP 8.
Tea, Coffee, Spices, Hops, and Aromatic
and Vegetable Substances.
151. Antonsantri, M., & Co., New Dorp, N.
Y. Sauces. F-H-5 \[47\]
152. Baker, Walter, & Co., Dorchester,
Mass. Chocolate and cocoa. G-G-4
   Special bldg. \[45\]
For exhibit see page 342
153. Baron Machine Co., Baltimore, Md.
Cigar bunching machine. E-C-2 \[49\]
154. Clark Coffee Co., Boston. Combin-
ation of cocoa and coffee. H-C-7 \[45\]
155. Consolidated Cigarette Company, New
York. Cigarettes. I-H-8 \[52\]
156. 150 Connecticut Farmers. Connecticut leaf tobacco. Sec. G 48
159. Dieter, The J. P., Co., Chicago. a Roasted coffees. H-E-7 45
Spices and mustard. 47
175. Kyriazi freres, Cairo, Egypt. Cigarettes. I-F-8 52
176. Lompoc Exhibit, Santa Barbara, Cal. Mustard. Sec. H 47
177. Lorillard, P., Co., Jersey City, N. J. a Tobaccos. I-B-9 51
b Snuff. 52
180. McIlhenny's Son, E., New Iberia, La. Pepper sauce; pepper. H-K-7 47
183. Nestor Gionaciol, Cairo, Egypt. Cigarettes. G-G-9 52
184. New England Tobacco Growers' Ass'n, Poquonock, Conn. Leaf tobacco. I-G-9 48
185. New England Tobacco Growers' Ass'n., East Hartford, Conn. Leaf tobacco. I-G-8 48
189. Richardson, Chas., Fredericksburg, Va. Pickles. H-K-7 47
For exhibit see page 946.

GROUP 9.

Animal and Vegetable Fibres.

For exhibit see page 1000.
204. Brinker, Jos., H., West Point, Miss. Baled cotton. C-D-0 53
209. Engelberg Hulmer Company Syracuse, N. Y. Cotton gin. E-C-5 55
211. Hussey, Geo. B., Providence, R. I. Bale covers. F-D-4 55
212. Laney, Arnon, Miles City, Montana. Fleece of wool. Sec. G 60
213. Martin, Robert J., Billings, Mont. Fleece of wool. Sec. G 60
214. McGill, Thomas, Billings, Mont. Wool. Sec. G 60
218. Thomas Mfg Co., Little Rock, Ark. Cotton gin, presses, feeders, etc. E-R-1 55
GROUP 10.

Pure and Mineral Waters, Natural and Artificial.


228. Londonderry Lithia Spring Water Co., Nashua, N. H. Mineral water. I-D-6 64


231. Ricker, Hiram, & Sons, South Poland, Me. Mineral water. I-E-6 64

232. Ries, Jacob, Shakopee, Minn. I-K-6 a Natural mineral waters.

232b. Ginger ale, sarsaparilla, soda, etc. 65


237. Waukesha Lithia Spring Co., Chicago. Mineral water. I-G-6 64

238. Waukesha Lithia Spring Co., Waukesha, Wis. Mineral water. I-G-6 64

GROUP 11.

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241b. Rum and brandy. 67


244. Franchi, Emilio M., New York. Vermouth. Sec. 1 60


248. Large Distilling Company, Pittsburgh, Pa. Whisky. I-F-5 66


252. Mikalovich, Fletcher, & Co., Cincinnati. Liquors in cases. I-E-6 65


For exhibit see page 492.

253a. Old Times Distillery Co., Louisville, Ky. Whisky. 66


255. Rheinstrom Bros., Cincinnati. a Whiskies. I-F-5 66

b Liquors. 69
c Bitters. 70


GROUP 12.

Malt Liquors.

260. Anheuser-Busch Brewing Association, St. Louis. Lager beer. I-M-10 73

261. Barrett Brewing Co., Cleveland, Ohio. Beer, ale, porter. Sec. 1 73


266. Evans, C. H., & Sons, Hudson, N. Y. Ale, stout. G-O-3 73

267. Greenway Brewing Co., Syracuse, N. Y. Ale, stout. I-M-6 73


For exhibit see page 493.

271. Liebmann's, S., Sons Brewing Co., Brooklyn, N. Y. Lager beer. G-M-8 73


276. Pabst Brewing Co., Milwaukee, Wis. a Malt extract. G-M-10 72

b Beer. 72

For exhibit see page 625 to 628.

277. Peoria Malting Company, Peoria, Ill. Malt. I-M-4 72

DEPARTMENT A.—AGRICULTURE.

305. Hunley, Harris & Co., Richmond, Ky. Hedge and wire fence. F. ex. 79

306. Jackson, George, Mapleton, Ind. Stable fittings. Live Stock Bldg. 82

307. Jones National Fence Co., Columbus, O. Wire fence. F. ex. 79


309. Taylor, Andrew W., Wayne, Neb. Gate and spike puller. F. ex. 79

310. Thompson, A. L., East Avon, N. Y. Tightener and fastener for wire fencing. F. ex. 79

GROUP 16.
Farming Tools, Implements and Machinery.

311. Aeromotor Company, Chicago. Wind mills, feed grinders and cutters. W. ex 88

312. Adzie, Platt & Co., Poughkeepsie, N. Y. Binder, reaper, mowers and dropper. F. ex. 88

313. Aldrich, Wm. H., Logansport, Ind. Wind engines. W. ex. 88


315. Althouse Wheeler Company, Waupun, Wis. Wind and grinding mills. N. ex. 88

316. American Chemical Co., Minneapolis, Minn. Car cleaner. F-J-4 86


321. Appleton Manufacturing Company, Appleton, Wis. Hay cutters, horse power and jack. E-C-4

322. Aspinwall Manufacturing Company, Jackson, Mich. Potato planters, cutters, and digger; drill; E-P-10 85

323. Avery, John Jacob, New York. Road improver. E-E-10 89


325. Avery, B. F., & Sons, Louisville, Ky. Threshing machines. E-T-8 87


327. Avery & Rouse Steam Thresher Co., Peoria, Ill. Planter and check rower; drill. E-C-11 85

GROUP 14.
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329. Allis, Eliot W., Adrian, Mich. Permanent and portable fence. F. ex. 79

330. Andre, T. J., Wauseon, Ohio. Fence and wire stretcher. F. ex. 79


332. Bonnafon, Albert L., Philadelphia. Wire fence weaving machine. F. ex. 79


334. Crane, J. J., Summertown, Tenn. Metal fence post and hooks. F. ex. 79

335. Eureka Gate Co., Waterloo, Iowa. Gates. F. ex. 79

336. Hack, Peter, Michigan City, Ind. Gate. F. ex. 79


331. Bateman, E. S. & F., Greenloch, N. J. a. Cultivators and plows. 84 b. Drills. 85


333. Belle City Manufacturing Company, Racine, Wis. a. Threshing machine. 87 b. Horse powers and feed cutters. 88


335. Benster, Olin W., Toledo, Ohio. Wind engine. W. ex. 88

336. Bickford & Huffman Co., Macedon, N. Y. Fertilizer grain drill. E-P-3 85


339. Birdsall Manufacturing Company, South Bend, Ind. Clover hullers. E-B-11 87

340. Bissell Chilled Plow Works, South Bend, Ind. Plows. E-P-11 84

341. Bowman & Allen, Dayton, Ohio. Tobacco hiller. E-R-6 84


343. Bowsher, N. P., South Bend, Ind. Feed mills. E-E-4 88


347. Brook Lawn Farm Company, Esopus, N. Y. Fruit press. E-E-3 87


350. Cardwell Machine Company, Richmond, Va. E-O-1 a. Corn planter and attachment. 85 b. Threshers; baling press; tobacco moulds; peanut picker, etc. 87 c. Feed cutters. 88

351. Cascadden, Thomas, Waterloo, Iowa. Farm kettles and feed grinders. E-C-2 88

352. Challenge Windmill & Feedmill Co., Batavia, Ill. Windmills, tanks, feed grinders, corn shellers, etc. W. ex. 88


356. Climax Road Machine Company, Marathou, N. Y. Road machine. Road ex. 89


358. Coates, A. W., Company, Alliance, Ohio. Hay rakes. E-E-5 86


360. Collins Plow Co. a. Plows and cultivators. 84 b. Baling presses. 87

361. Columbian Cordage Company, Auburn, N. Y. Binding twine. E-R-2 86


364. Crane Machine Company, Baltimore. a. Combined roller, drill and harrow. E-P-7 84


367. Cutaway Harrow Company, Higganum, Conn. E-R-10 a. Harrows, plows and cultivators. 84 b. Root cutter, tool grinder, etc. 88

368. Davenport, Joseph P., Downers Grove, Ill. Potato planter. E-E-10 84

369. Dayton Farm Implement Company, Dayton, Ohio. Harrows and combined harrow and loader. E-R-9 84


372. Deere & Mansur Co., Moline, Ill. a. Planters, drills, etc. E-G-10 85 b. Hay loader. 86


378. Dowden Manufacturing Company, Prairie City, Ia. Potato harvester and cutter. E-C-9 84


380. Eclipse Manufacturing Company, Middlebury, Conn. Grain and seed separator and grader. E-P-10 87
381. Eclipse Wind Engine Company, Beloit, Wis. Windmill. W. ex. 88
382. Elliott, Wm. S. G., & Son, Walden, N. Y. Mowing machine. E-M-1 88
385. Engelberg Huller Company, Syracuse, N. Y. Rice and coffee huller. E-C-5 87
386. Eureka Mower Company, Utica, N. Y. E-E-3
   a Mower. 84
   b Harrow and cultivator. 86
387. Evett, James A., Indianapolis, Ind. a Cultivator and plow. E-E-9 84
   b Seed drill. 88
388. Excelsior Harrow Company, Big Springs, Ohio. Harrow and pulverizer. E-E-10 84
390. Farmers’ Friend Manufacturing Company, Dayton, Ohio. E-P-3
   a Harrow. 84
   b Drills, corn planters and check roower. 85
   c Hay rake and loader; mower. 86
   a Plows, harrows and cultivators. 84
   b Corn planter and grain drill. 85
   c Rake separator. 86
   d Thresher and vibrator. 87
   e Corn sheller; portable engine. 88
   a Fruit evaporator, corn shellers, feed cutters, etc. E-G-5 87
   b Sugar and feed mills. 88
393. Flint & Walling Manufacturing Co., Kendallville, Ind. Windmills and attachments. W. ex. 88
For exhibit see page 444.
   a Corn planters. E-A-4 85
   b Corn harvesters. 86
   c Corn shellers. 87
   d Farm mills and grinders. 88
396. Freeman, S., & Sons Manufacturing Co., Racine, Wis. E-G-9
   a Broad cast seed sower. 85
   b Fanning mills and feed cutters. 88
   a Plows and cultivator. 84
   b Corn planter, check roower and transplanting machine. 88
399. Gaar, Scott & Co., Richmond, Ind.
   a Thresher. E-A-11 87
   b Traction engine. 89
400. Geiser Manufacturing Company, Waynesboro, Pa. E-C-10
   a Thresher, separator and cleaner. 87
   b Traction engine. 89
   a Land rollers. 84
   b Drill. 85
   c Corn shellers. 88
406. Gray’s, A. W., Sons, Middletown Springs, Vt. Thresher, separator and cleaner. E-R-11 88
411. Heebner & Sons, Lansdale, Pa. E-R-4
   a Threshers and cleaners. 87
   b Feed mill and cutters with crushers. 88
413. Hendricks, D. B., Kingston, N. Y. Baling presses. E-R-9 87
414. High, Nathaniel B., Chicago. Oats cleaner. E-R-6 87
415. Hoekstra, S. J., Sheboygan, Wis. Horse power. E-R-11 84
416. Hoover & Prout, Avery, Ohio.
   a Potato digger. E-P-9 86
   b Potato sorter and sprouter. 87
417. Huber Manufacturing Company, Marion, Ohio. E-A-7
   a Thresher. 87
   b Traction engine. 89
419. Iwan Bros., Streator, Ill. Drain and tile cleaners and post-hole augers. E-R-11 88
421. Johnson & Field Co., Racine, Wis.
   a Broadcast seeder. E-A-6 85
   b Fanning and cleaning mills. 87
422. Johnston Harvester Company, Bataokia, Ind.
   a Pulverizers and cultivators. 84
   b Harvester and binder, reaper and mowers. 86
   a Grain seeders. 85
   b Feed grinders. 88
428. Kent, Arthur C., Janesville, Wis.  Corn planters.  E-R-7  85
  a Harrow.  84
  b Sower and planter.  85
  c Hay loader and rake.  86
  d Corn shellers, huskers and harvesters.  88
431. Kringle Bros., Westerville, Ohio.  Stump and rock extractor.  W, ex.  88
432. La Crosse Plow Works, La Crosse, Wis.  Harrows and plows.  E-L-11  84
433. Lawrie, John, Brookston, Ind.  Cultivator.  E-E-9  84
434. Lean, R., & Son, Mansfield, Ohio.  Harrows.  E-Q-11  84
435. Macleod, Malcolm, Los Angeles, Cal.  Cultivator, rake and roller.  E-R-9  84
  b Grain drills; seeders.  85
  c Hay rakes.  86
439. May Bros., Galesburg, Ill.  Windmill and mill.  W, ex.  88
441. McCormick Harvesting Machine Co., Chicago.  Binders, reapers, mowers, droppers, etc.  E-1-5  86
442. McSherry Mfg. Co., Dayton, Ohio.  a Harrow.  E-N-2  85
  b Fertilizer drills.  85
  a Thresher, separator and stacker.  87
  b Corn sheller, feed cutter, land roller.  88
448. Minneapolis Eaterly Harvester Company, Minneapolis, Minn.  Harvesters and mowers.  E-N-8  86
449. Minneapolis Threshing Machine Company, Minneapolis, Minn.  E-C-11
  a Threshing machine, band cutter and feeder and grain measurer and bagger.  87
  b Traction engines.  89
450. Moline Plow Company, Moline, Ill.  a Plows and cultivators.  E-C-11  84
  b Corn planter.  85
  For exhibit see page 634.
  a Harrows and hoes.  84
  b Reaper, mow and binder, hay rake.  86
454. Murphy, John, Columbus, Ohio.  Brick pavement.  South of Annex.  89
455. Nash, D. H., Millington, N. J.  Harrow, clover crucher and leveler.  E-E-10  84
457. Nordyke & Marmon Co., Indianapolis, Ind.  Mills and shellers.  E-P-2  88
459. O'Hara, John H., Chicago.  E-G-7
  a Corn planter and harvester.  85
  b Reapers and binder, hay rake and tedder.  86
  c Traction engine.  89
460. Oliver Chilled Plow Works, South Bend, Ind.  Plows and cultivators.  E-J-11  84
  b Mowers, harvesters, binders, hay rakes and Tedders.  86
462. Owens, J. L., & Co., Minneapolis, Minn.  Fanning mills.  E-P-3  87
464. Patch, Asahel H., Clarksville, Tenn.  Hand corn sheller.  E-E-10  87
  a Corn planter.  86
  b Corn planter.  86
467. Perry, Judson D., Detroit, Mich.  Plow, pulverizer and potato digger.  E-F-10  84
468. Pirch, August, Los Angeles, Cal.  Irrigation and ditching plow.  E-L-11  84
470. Pope, John L., Cleveland, Ohio.  Pavement.  E-R-11  89
473. Potato Planter Co., Traverse City, Mich.  Potato planter.  F-P-10  85
477. Reed, John E., Los Angeles, Calif.  Rake roller-cultivator.  E-L-11  85
480. Robinson & Co., Richmond, Ind.  a Thresher.  E-A-10  87
  b Stacker and band cutter.  88
  c Traction engine.  89

WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

488. Sandwich Enterprise Co., Sandwich, Ill. a Cultivators, harrows. 84 b Cotton planter. 85 c Corn slicer. 88

489. Sandwich Manufacturing Company, Sandwich, Ill. a Harvester. 86 b Corn sheller and baling press. 87

490. Sattley Manufacturing Company, Springfield, Ill. a Plows, cultivators and harrows. 84 b Straw stacker. 87


493. Skandia Flow Company, Rockford, Ill. a Plows, cultivators and harrows. 84 b Corn planters and listers. 85


495. Smalley Manufacturing Company, Manitowoc, Wis. Ensilage and feed cutting machinery. E-E-6 88

496. Smith, Oliver A., Clarkston, Mich. Land roller and spraying pump, E-R-3 88

497. Smith, W., & Co., Mystic, Iowa. Stump extractor. F. ex. 88

498. South Bend Chilled Plow Company, South Bend, Ind. Plows and cultivators. E-E-6 84

499. South Bend Stacker Co., South Bend, Ind. Straw stackers. E-C-9 86

500. Star Drill Co., Rushville, Ind. Grain and fertilizer drills. E-G-10 85

501. Sterling Manufacturing Company, Sterling, Ill. a Harrows. 84 b Seeder. 85 c Corn stalk cutter; feed grinder. 88

502. St. Johnsville Agricultural Works, St. Johnsville, N. Y. a Grain thresher. 87 b Portable engine and horse power. 88


505. Stevens, A. W., & Son, Auburn, N. Y. a Threshing machine. 87 b Traction engine. 89

506. Stoddard Manufacturing Company, Dayton, Ohio. a Harrow. 84 b Drills. 85 c Harrow and mower. 86


508. Straub, A. W., Philadelphia. Grinding mills. E-C-6 88

509. Superior Drill Company, Springfield, Ohio. a Grain and fertilizer drills. 85 b Hay carriers and forks. 86


505. Syracuse Chilled Plow Works, Syracuse, N. Y. E-1-10

506. Thomas Manufacturing Company, Springfield, Ohio. E-P-7


509. United States Wind Engine Company, Batavia, Ill. Windmills and feed and grinding mills. W. ex. 88

510. Union Iron Works Co., Newark, Ohio. Traction engine. I. E. ex. 89


513. Warder, Bushnell & Glessner Co., Chicago. Mower, reaper and harvester. E-L-7 86


515. Whitely, Wm. N., Company, Springfield, Ohio. a Harvester, binder and mower. 86 b Corn-cutting machine. 88


517. Whitman Agricultural Co., St. Louis. a Tread horse power. E-N-5 84 b Drill and sower. 85 c Baling presses; corn shellers. 87 d Corn and cob mills. 88


519. Wilms, Peter H., Holland, Mich. Land roller and harrow. E-R-7 84


GROUP 17.

Miscellaneous Animal Products—Fertilizers and Fertilizing Compounds.


524. Grace, Wm. R., & Co., New York. Nitrates of soda, potash, etc. F-C-1 93

525. Janesville Bone Fertilizing Chemical Works, Janesville, Wis. Fertilizers, etc. F-G-1 92

Entrance to Annex. 93

GROUP 18.

Fats, Oils, Soaps, Candles, Etc.


For exhibit see page 1000.


537. Baumer, Francis, Syracuse, N. Y. Candles and beeswax. F-J-6 97


539. Dall, Chas., Newburgh, N. Y. Cloth renovator. F-K-4 96

540. Dreydoppel, Wm., Philadelphia. Soaps. F-M-6 96

541. Ekermann & Will, Syracuse, N. Y. Beeswax and candles. F-K-6 97


549. Leonard & Ellis, Chicago. Lubricating oils. F-J-6 98


For exhibit see page 425.

554. Ostrom & Lincoln Co., Bridgeport, Conn. Soaps and soap fixtures. F-M-6 96


556. Scoville, E. U., Manlius, N. Y. Hay fork pulleys. F-F-1 96


561. Ward, Everett, New York. Soaps and soap powder. F-M-7 96


CALIFORNIA.

GROUP 1.

1. Adam, W. L., Santa Barbara. Barley. 4

2. Allen, B. F., Chico. Wheat. 1

3. Ayeris, E. W., Santa Ana Valley. Oats in straw. 3

4. Barnes, E. W., Escondido. Corn. 2

5. Barnard, A. D., Santa Anna Valley. Wheat in straw. 1

6. Bidwell, John, Chico. Wheat. 1

7. Blockman, L. E., Santa Maria. Wheat. 1

8. Borley, T. J., Santa Ana. a Oats. 3 b Barley. 4

9. Branch, John, Artesia. a Popcorn. 2 b Alfalfa. 9

10. Brockeay, C. Z., Sacramento. a Corn. 2 b Barley. 4

11. Brunson, James, Escondido. Wheat. 1

12. Bryant, William, Routers. Wheat. 1


14. Carroll, Sacramento. Oats. 3

15. Clark, M. H., Upper Ojai. Wheat in straw. 1


17. Clausen, J. F., Del Surf. Wheat. 1

18. Cochems, Nicholas, Del Sur. Barley. 4

19. Coffman, Frank, Rivera. Corn. 2

20. Cook, George, Nellie. Wheat. 1


22. Coover, John, Lancaster. Wheat. 1
## DEPARTMENT A. - AGRICULTURE.

### GROUP 3.

82. Albertz, F., Cloverdale. Grape sugar. 19
84. Brodbbeck, G. W., Los Angeles. Honey. 26
85. Burnett, Allen, Whittier. Honey. 26
86. Corey & Touchton, Santa Paula. 
   a Cane seed. 17
   b Sorghum. 24
87. Hillier, H. H., Pasadena. Honey. 26
88. Mackey, R., Banning. Honey. 26
89. Martin, J. H., Redlands. Honey. 26
90. McIntyre, J. F., Fillmore. Honey. 26
92. Mendenhall, T. W., Whittier. 
   a Corn. 2
   b Oats. 3
93. Rawley, L. T., Sunland. Honey. 26
94. Thomas, C. C, Winchester. Honey. 26
95. Trickey, F., Bishop. Honey. 26
96. Woodbury, G. B., Verdugo. Honey and beeswax. 26

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98. Atkinson, B., Los Angeles. Potatoes. 28
99. Bandel, E., Burbank. Potatoes. 28
100. Butler, J. M., Los Angeles. Potatoes. 28
101. Dare, C. B., El Cajon. Potatoes. 28
102. Draves, H. C., Harmony. Beets. 29
103. Elliott, E., Santa Barbara. Carrots. 28
104. Enthwistle, James, Cahuenga. Carrots. 29
105. Franklin, Gideon, Carpenteria. Peanuts. 31
106. Franzen, A., Orange. Potatoes. 28
108. Kline, A., Santa Ana. Carrots. 30
111. Pine, William, Vernon. Peanuts. 31
112. Pruman, Daniel, Cahuenga. Beets. 29
113. Rutherford, Stephen. Napes. 29
114. Starbridge, W. T., Whittier. Potatoes. 28
## UNITED STATES.

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<td>Stocking Bros., Escondido.</td>
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<td>Wolf &amp; Lehman, Hueneme.</td>
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<td>Bailey, C. P., San Jose.</td>
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<td>Silk cocoons. 61</td>
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<td>Selez, Ralph R., Ballard.</td>
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<td>Smith, Juliet P., Livermore.</td>
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## COLORADO.

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<td>Abbott, H. C., Las Animas.</td>
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<td>Berry, F. M., Beulah.</td>
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<td>25.</td>
<td>Blake Bros., Powell.</td>
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THE OFFICIAL DIRECTORY

DEPARTMENT A.—AGRICULTURE.

27. Brown, Peter, Greeley. Wheat. 1
28. Burkdoll, H. E., Monte Vista. Wheat. 1
29. Calkins, C. C., Longmont. Wheat. 1
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
31. Cobley, J., Sterling. Corn. 2
33. Colorado Agricultural College, Denver.
   \- Grasses. (75 varieties.) 8
   \- Forage plants. (28 varieties.) 9
34. Colorado State Commission.
   \- Grasses. (60 varieties.) 8
   \- Forage plants. (20 varieties.) 9
   \- Wheat. 1
36. Crosley, J. H., Las Animas. Wheat. 1
   \- Wheat. 1
   \- Corn. 2
   \- Oats. 3
   \- Barley. 4
38. Cunshin, A. C., Montrose. Oats. 3
39. Divide Station, Experiment.
   \- Wheat. 1
   \- Corn. 2
   \- Rye. 5
   \- Corn. 2
   \- Oats. 3
   \- Barley. 4
   \- Rye. 5
41. Donaldson, Theo., Denver. Corn. 2
42. Donaldson, L., Denver. Corn. 2
43. Donohue, R. A., Sterling.
   \- Wheat. 1
   \- Oats. 2
44. Dulmaine, J. E., Grand Junction.
   \- Wheat. 1
45. Dulmane, J. E., Whitewater. Wheat. 1
46. Dyer, W. A., Rocky Ford. Corn. 2
47. Eaton, G. W., Sterling. Corn. 2
48. Elbert County, Colorado. Corn. 2
49. Ellison, J. B., Grand Junction. Wheat. 1
50. El Paso County, Colorado. Corn. 2
51. Endsley, H. A., Montrose. Oats. 1
52. Eperson, J. H., Durango. Oats. 3
53. Fiffe, P., Sterling.
   \- Wheat. 1
   \- Oats. 3
   \- Rye. 5
54. Goroden, E., Lamar. Wheat. 1
55. Goss, J. W., Hygiene. Wheat. 1
56. Green, Chas., Sterling. Corn. 2
57. Green, C. K., Sterling. Barley. 4
58. Green, O. C., Beulah. Corn. 2
59. Griffith, Rocky Ford. Wheat. 1
60. Griswold, C., Sterling. Corn. 2
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
62. Hensley, C., Durango. Wheat. 1
63. Hervison, H., Rocky Ford. Corn. 2
64. Higgin, J. H., Plateau. Oats. 3
65. Hixon, N. R., Montrose. Oats. 3
66. Hooper, D. F., Rocky Ford. Oats. 3
67. Housel, P. M., Boulder. Wheat. 1
68. Hyer, A. H., Rocky Ford. Corn. 2
69. Imes, J. B., Montrose. Wheat. 1
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
71. Jones, C. B., Lamar. Wheat. 1
72. Jones, J. B., Montrose. Wheat. 1
73. Jones, T. C., Lamar. Wheat. 1
   \- Wheat. 1
   \- Oats. 3
75. Johnson, G., Sterling. Corn. 2
76. Kain, J. S., Rocky Ford. Corn. 2
77. Keifer, L., Fruita. Wheat. 1
78. Kelly, W. S., Montrose. Wheat. 1
79. Kiffed, A. W., Beulah. Wheat. 1
80. Klotz, J. R., Las Animas. Barley. 4
   \- Oats. 3
   \- Barley. 4
82. LaVigne County, Colorado. Corn. 2
83. Leach, Frank, Grand Junction.
   \- Oats. 3
   \- Barley. 4
84. Leatham, D., Lamar. Wheat. 1
85. Leonard, E. J., Montrose. Wheat. 1
86. Lewis, Robt., Monte Vista.
   \- Wheat. 1
   \- Oats. 3
87. Lynch, P. S., Lamar. Oats. 3
88. Manning, Mrs., Rocky Ford. Oats. 3
89. McClelland, J. S., Fort Collins.
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
90. McCuneel, J., Sterling. Wheat. 1
91. McDonnell, Phil., Powell.
   \- Oats. 3
   \- Barley. 4
   \- Wheat. 1
   \- Oats. 3
   \- Wheat. 1
   \- Oats. 3
94. Meakel, James, Evans. Barley. 4
95. Mershall, J. B., Denver.
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
   \- Millet. 9
96. Miner, J. R., Windsor. Wheat. 1
97. Monells, P. B., Montrose.
   \- Wheat. 1
   \- Oats. 3
98. Monnell, E. B., Montrose. Wheat. 1
100. Moore, J. N., Montrose. Wheat. 1
101. Moore, J. W., Montrose. Oats. 3
102. Mye, S. H., Montrose. Oats. 3
103. Osborne, J., Montrose. Wheat. 1
104. Pauvaishak, M., Hygiene. Wheat. 1
105. Parmeter, M. D., Lamar.
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
106. Parsons, A., Highland Lake.
   \- Oats. 3
   \- Barley. 4
107. Patterson, R. J., Sterling.
   \- Wheat. 1
   \- Oats. 3
   \- Barley. 4
WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

108. Perkins, G. M., Hygiene. Wheat. 1
110. Pollock, S. R., Rocky Ford. Oats. 3
111. Pound, C. A., Monte Vista.
   a Wheat. 1
   b Oats. 3
   c Barley. 4
   a Wheat. 1
   b Barley. 4
113. Ramsey, Allen, Greeley.
   a Wheat. 1
   b Oats. 3
   c Barley. 4
114. Ramsey, J. M., Sterling. Corn. 2
115. Reves Bros., Evans. Barley. 4
117. Roberts, D. C., Rocky Ford.
   Wheat. 1
118. Roier, J. H., Sterling. Corn. 2
119. Russell, Mrs. R. D., Stonewall.
   Wheat. 1
120. Schueman, F., Beulah. Wheat. 1
121. Scofield, D. N., Canfield. Wheat. 1
122. Scofield, J. M., Canfield. Wheat. 1
123. Scofield, L. N., Ni Wot. Wheat. 1
124. Sease, J. J., Beulah. Oats. 3
125. Sellers, Frank, Beulah. Oats. 3
126. Sherman, J. L., Sterling. Corn. 2
127. Siltthames, Geo., Sterling. Wheat. 1
128. Sinter, E. F., Ft. Collins. Barley. 4
129. Smith, J. B., Hygiene. Wheat. 1
130. Smith, John, Sterling. Corn. 2
131. Smos, Geo., Stanford. Wheat. 1
   a Wheat. 1
   b Corn. 2
   c Oats. 3
133. Stevens, H. A., Longmont. Wheat. 1
134. Stevens, H. S., Hygiene. Wheat. 1
135. Stevens, J. D., Hill Top. Millet. 8
136. Stevenson, Jesse, Lamar. Wheat. 1
137. Stokes, S. C., Highland Lake. Corn. 2
138. Story, Andrew, Stonewall. Oats. 3
139. Stivers, H. A., Canfield. Wheat. 1
140. Swinney, H., Monument. Oats. 3
141. Sylvester & Son, Monte Vista.
   a Wheat. 1
   b Corn. 2
142. Taylor, G. W., Rocky Ford. Corn. 2
143. Tetsell, N. P., Sterling. Oats. 3
144. Thompson, J. W., Evans. Rye. 5
   a Wheat. 1
   b Corn. 2
   c Barley. 4
146. Tracy, D. L., Ni Wot. Wheat. 1
147. Travis, D. C., San Isabel.
   a Wheat. 1
   b Oats. 3
   c Barley. 4
148. Trew, C., Durango. Oats. 3
149. Trew, E. S., Boulder. Oats. 3
150. Trew, R. S., Highland Lake. Barley. 4
151. Vogt & Hoffman, Lamar. Barley. 4
152. Vorell, Ben, Monument. Oats. 3
153. Walling, J. H., Whitewater. Oats. 3
154. Walsh, W. H., Weston. Oats. 3
155. Weston, S. H., Weston. Wheat. 1
156. Wheatland, C. G., Sterling. Corn. 2
157. Williams Bros., Lamar. Wheat. 1
158. Williams, J. D., Fruita. Oats. 3
159. Wise Bros., Canfield. Wheat. 1
160. Wise, J. O. V., Canfield. Wheat. 1
161. Wyclle, J. P., Rocky Ford. Corn. 2
162. Zittell, M. E., Sterling. Oats. 3
163. Ziliner, W., Montrose. Wheat. 1

GROUP 3.

164. Kiowa County.
   a Sugar cane. 17
   b Sorghum. 24

GROUP 5.

165. Colorado State Commission. Broom corn. 32
166. Kiowa County. Broom corn and Egyptian corn. 32

GROUP 9.

167. Berry, F. M. Flax. 59
168. Boulder County. Flax. 59
169. Colorado State Commission, Denver. Flax. 59
170. Douglas County. Flax. 59
171. Pound, C. A., Monte Vista. Flax. 59
172. Pueblo County. Flax. 59
173. Ramsey, Allen, Greeley. Flax. 59
174. Rio Grande County. Flax. 59
175. Stevens, J. D., Hill Top. Flax. 59
176. Weld County. Flax. 59
## CONNECTICUT

### GROUP 8.

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IDaho.

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5. Aston, J. H., Boise City. Wheat. 1
6. Blackfoot Columbian Club, Blackfoot. Oats. 3
7. Brown, Chas., Liberty. Oats. 3
8. Bud Clark, Boise City. Corn. 2
9. Colson, James, Weiser. Wheat. 1
10. Daggett, Monroe, St. Maries. Timothy hay and wild rye. 8
11. Davis, C., Salmon City. Timothy hay. 8
15. Ferrel, W., St. Maries. Timothy hay. 8
16. Fredrickson, Fredrick, Leland. Wheat in straw. 1
17. Gallagher, J. H., Boise City. Grasses and hay. 8
18. Garby, C., Leland. Wheat. 1
19. Gray, Eugene, St. Maries. Wheat. 1
20. Groom, John F., Boise City. Hay. 8
22. Hannah, V. D., Weiser. a Wheat. 1
   b Corn. 2
c Oats. 3
da Grasses. 8
22a. Hartinger, J., Leland. Wheat. 1
23. Hartinger, Wm., Lewiston. Wheat. 1
23a. Hefield, Henry, Uniontown. a Wheat. 1
   b Rye. 5
c Hay. 8
24. Hepler, John, Cameron. Wheat. 1
26. Hortinger, W., Leland. Oats in straw. 3
27. Jackson, A. F., Weiser. Oats. 3
28. Kingsbury & Sharp, Boise City. Wheat. 1
29. Landon, C., Leland. Oats in straw. 3
30. Lawn, Frank, Genesee. Wheat. 1
31. Layland, A. J., Thomas' Fork. Grasses and timothy hay. 8
32. Lee, O. S., Jr., Idaho Falls. a Wheat. 1
   b Oats. 3
33. Lee, O. S., Sr., Idaho Falls. a Wheat. 1
   b Clover and hay. 8
34. Loring, John, Genesee. Wheat. 1
35. Loring, Theodore, Genesee. Barley. 4
36. Lund, T. A., Weiser. Wheat. 1
37. McCall, J., Leland. Wheat in straw. 1
38. McFarland, Wm. H., Lewiston. Wheat in straw. 1
39. Maroyn, Wm., Genesee. Wheat. 1
40. Martin, J. H., Weiser. Barley. 4
41. Mickey, F. M., Weiser. Oats. 3
42. Morrison, J. H., Leland. Wheat. 1
43. Mosley, J., Boise City. Millet. 8
44. Newman, Thos., Weiser. Corn. 2
45. Nixon, Wm., Genesee. Wheat. 1
46. Olsen, S., Idaho Falls. Wheat. 1
47. Osborne, I. L., Hailey. a Wheat. 1
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48. Pedan, Martin, Leland. Wheat. 1
49. Percifield, S. M., Weiser. Wheat. 1
50. Poe, James W., Lewiston. Corn. 2
51. Potter, L. D., Caldwell. Hay and wild oats. 8
52. Reed, J. L., Bonner's Ferry. Grasses. 8
53. Roberts & Son, Albion. a Wheat. 1
   b Barley. 4
c Oats. 5
da Grasses. 8
e Alfalfa hay. 9
54. Rynearson, W. S., Weiser. Wheat. 1
55. Saxon, John, Boise City. a Wheat. 1
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56. Sonting, J., Lewiston. Grass. 8
57. Southwick, S. R., Southwick. Orchard grass. 8
58. Specker, C., Leland. Rye in straw. 5
59. Stoddard, Wm., Boise City. Oats. 3
60. Stewart, D. C., Montpelier. Wheat. 1
61. Stranahan, C. T., Lewiston. Alfalfa hay. 9
62. Stroup, Jacob, Washoe. a Wheat. 1
   b Oats. 3
c Hay. 8
65. Swagger, S. A., Weiser. a Wheat. 1
   b Corn. 2
66. Swagger, T. A., Weiser. Corn. 2
67. Thomas, A. T., Boise City. a Wheat and wheat in straw. 1
   b Oats in straw. 3
c Alfalfa. 9
67a. Tollard, F. M., Salmon City. a Wheat. 1
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68. Touk, Henry, Bonner's Ferry. a Wheat. 1
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68a. Tuttle, Robert, Weiser. Corn. 2
69. Utley, J. R., Weiser. Wheat. 1
70. Ward, M. L., Leland. Oats. 3
71. Welcher, George, Leland. Barley in straw. 4
72. Welcher, Paul, Leland. Timothy hay. 8
73. White, A. K., St. Maries. Timothy hay. 8
74. White, A. T., Idaho Falls. a Oats. 3
c Grass. 8
75. Wilson, Thos., Boise City. Oats. 3
### UNITED STATES.

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**GROUP 3.**

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<th>No.</th>
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<th>Crop(s)</th>
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<tbody>
<tr>
<td>80.</td>
<td>Boulding, A., Leland</td>
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<td>81.</td>
<td>Clark, C., Leland</td>
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<td>82.</td>
<td>McFarland, W. H., Lewiston</td>
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<td>83.</td>
<td>Piper, J. W., Leland</td>
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<td>84.</td>
<td>Stoddard, Samuel, Leland</td>
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<td>85.</td>
<td>Wyneocoop, John M., Lewiston</td>
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**GROUP 4.**

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<tbody>
<tr>
<td>86.</td>
<td>Ackroids, Walter</td>
<td>Bloomington</td>
<td>Beets</td>
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<td>87.</td>
<td>Alred, Marvin</td>
<td>Paris</td>
<td>Turnips</td>
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<td>88.</td>
<td>Bast, J. H., Boise City</td>
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<tr>
<td>89.</td>
<td>Dunn, J. P., Bonner's Ferry</td>
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<td>90.</td>
<td>Edmanston, W. H., Leland</td>
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<tr>
<td>91.</td>
<td>Fordyce, W. H., Lewiston</td>
<td>Peanuts</td>
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<tr>
<td>92.</td>
<td>Fry, R., Bonner’s Ferry</td>
<td>Beets and rutabagas</td>
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<tr>
<td>93.</td>
<td>Lester, Richard</td>
<td>Albion</td>
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<tr>
<td>94.</td>
<td>Loring, Theodore</td>
<td>Genesee</td>
<td>Rutsugabo, turnips and herbs</td>
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<td>95.</td>
<td>Lucas, F. M., Bonner’s Ferry</td>
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<td>96.</td>
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<td>97.</td>
<td>Porter &amp; Wessels, Lewiston</td>
<td>Sweet potatoes</td>
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<td>98.</td>
<td>Potter, L. D., Caldwell</td>
<td>Potatoes</td>
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<td>99.</td>
<td>Steward, D.C., Montpelier</td>
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<td>100.</td>
<td>Stroup, Jacob</td>
<td>Washoe</td>
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<tr>
<td>101.</td>
<td>Worthington, C., Albion</td>
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**GROUP 5.**

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<th>Crop(s)</th>
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</thead>
<tbody>
<tr>
<td>102.</td>
<td>Boulding, A., Leland</td>
<td>Garden seed</td>
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<tr>
<td>103.</td>
<td>Church, Henry</td>
<td>Leland</td>
<td>Tomatoes</td>
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</tr>
<tr>
<td>104.</td>
<td>Fordyce, W. H., Lewiston</td>
<td>Peas and beans</td>
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<tr>
<td>105.</td>
<td>Fry, R., Bonner’s Ferry</td>
<td>Cabbages</td>
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<tr>
<td>106.</td>
<td>Hannah, V. D., Weiser</td>
<td>Brooncorn</td>
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<tr>
<td>107.</td>
<td>Holt, F., Lewiston</td>
<td>Brooncorn</td>
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<tr>
<td>108.</td>
<td>McGlotklin, T. W., Bonner’s Ferry</td>
<td>Squashes</td>
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<tr>
<td>109.</td>
<td>Potter, L. D., Caldwell</td>
<td>Tomatoes</td>
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<td>ILLINOIS</td>
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<tr>
<td>110.</td>
<td>Rykert, J. C., Bonner’s Ferry</td>
<td>Cabbages</td>
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<td>ILLINOIS</td>
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<tr>
<td>111.</td>
<td>Stroup, Jacob</td>
<td>Washoe</td>
<td>Squashes and pumpkins</td>
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<tr>
<td>112.</td>
<td>Swager, S.A., Weiser</td>
<td>Brooncorn</td>
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<tr>
<td>113.</td>
<td>Walker, Geo. W.</td>
<td>CameronBeans</td>
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<tr>
<td>114.</td>
<td>Wessels, H., Cameron</td>
<td>Timothy seed</td>
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<tr>
<td>115.</td>
<td>Wyman, J., Leland</td>
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**GROUP 8.**

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<th>No.</th>
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<th>State</th>
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<td>116.</td>
<td>Fordyce, W. H., Lewiston</td>
<td>Leaf tobacco</td>
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<tr>
<td>117.</td>
<td>Kausteur, J. H., Idaho Falls</td>
<td>Hops</td>
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<tr>
<td>118.</td>
<td>McGlotklin, T. W., Bonner’s Ferry</td>
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**GROUP 9.**

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<td>119.</td>
<td>Lee, O. S. Jr., Idaho Falls</td>
<td>Flax</td>
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**GROUP 11.**

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<td>120.</td>
<td>Boulding, A., Leland</td>
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### ILLINOIS.

**GROUP 1.**

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<tr>
<td>1.</td>
<td>Banscher, Louis</td>
<td>Freeport</td>
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<td>2.</td>
<td>Boatman, J. W., Carlinville</td>
<td>Corn</td>
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<td>3.</td>
<td>Bone, F. E., Tallula</td>
<td>Wheat</td>
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<td>5.</td>
<td>Brumback, David</td>
<td>Danforth</td>
<td>Wheat</td>
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<td>6.</td>
<td>Burdick, W. A., Winnebago</td>
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<td>7.</td>
<td>Burdick, J. L., Rockford</td>
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**GROUP 2.**

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<td>Burrows, Wm., Panola</td>
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<td>10.</td>
<td>Chester, T. P., Champaign</td>
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<td>11.</td>
<td>Childs, Edward, El Paso</td>
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<td>12.</td>
<td>Cline, W. M., Rockford</td>
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<td>13.</td>
<td>Coffin, Horace, Rockford</td>
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<td>14.</td>
<td>Conlon, John, Taylor</td>
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<td>Cribbins, Thos., El Paso</td>
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<td>No.</td>
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<td>16</td>
<td>Crowell, L. H., Rockford</td>
<td>Panola</td>
<td>Corn, Rye, Barley, Grasses.</td>
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<td>McLeansboro</td>
<td>Wheat, Grasses.</td>
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<td>Gardiner, June, Rockford</td>
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<td>Wheat.</td>
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<td>Wheat.</td>
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<td>Hodge, W. H., Morris</td>
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<td>Wheat, Oats, Barley, Rye, Buckwheat, Grasses.</td>
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<td>38</td>
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<td>Irving, J. N., Arcola</td>
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<td>Oats.</td>
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<td>42</td>
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<td>Corn.</td>
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<td>43</td>
<td>Johnson, Andy, El Paso</td>
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<td>44</td>
<td>Kemmel, W. G., Jonesboro</td>
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<td>Agricultural, Growers', Ass'n, Woodstock.</td>
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<td>Corn.</td>
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<td>52</td>
<td>McOmber, H. L., El Paso</td>
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<td>Corn.</td>
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<td>53</td>
<td>March, F. W., Daysville</td>
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<td>Corn.</td>
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<td>Metropolis</td>
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<td>55</td>
<td>Millard, Benjamin, Rockford</td>
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<td>Wheat, Oats.</td>
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<td>56</td>
<td>Miller, C. E., Panola</td>
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</tbody>
</table>
57. Murray, Ed., Daysville. Corn. 2
58. Nash, J. E., Princeton. 1
   Wheat.
   Corn. 2
   Oats. 3
   Barley. 4
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
59. Neeper, A., Kinmundy. 1
   Wheat.
   Corn. 2
   Oats. 3
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
60. Nethercott, Robert, El Paso. Corn. 2
61. Patton, John, Panola. Corn. 2
62. Pinkham, George, Panola. Corn. 2
63. Pierpont, Theron, Rockford. Corn. 2
64. Pleasman, James, El Paso. Corn. 2
65. Rice, Wm., Rockford. Grasses. 8
66. Russell, A. E., Shattuc. 1
   Wheat.
   Corn. 2
   Oats. 3
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
67. Sawyer, W. J., Belvidere. 2
   Wheat.
   Grains. 2
68. Schofield, John, El Paso. Corn. 2
69. Seiler, J. E., Mt. Carmel. 1
   Wheat.
   Corn. 2
   Oats. 3
   Rye. 5
   Grasses. 8
   Forage plants. 9
70. Shedden, Robert, Pingree Grove. 1
   Wheat.
   Corn. 2
   Oats. 3
   Barley. 4
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
71. Sheen, Geo., El Paso. Corn. 2
72. Sibley, C. W., Pana. 1
   Wheat.
   Corn. 2
   Oats. 3
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
73. Stephenson, C. M., Secor. Corn. 2
74. Stevens, Geo., Rockford. Grasses. 8
75. Stevens, Wm., Daysville. Barley. 4
76. Stitt, S. S., El Paso. Corn. 2
77. Stonebraker, Mr., Panola. Corn. 2
78. Storrs, John, Rockford. Oats. 3
80. Swartz, James, El Paso. Corn. 2
81. University of Illinois, Champaign. 1
   Wheat.
   Corn. 2
   Oats. 3
82. Vanbel, Adam, Peoria. 1
   Wheat.
   Corn. 2
   Oats. 3
   Barley. 4
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
83. Weedman, T. S., Farmer City. 1
   Wheat.
   Corn. 2
   Oats. 3
   Barley. 4
   Rye. 5
   Buckwheat. 7
   Grasses. 8
   Forage plants. 9
84. Whitten, Albert, Bismarck. Corn. 2
85. Wilcox, John Rockford. 1
   Wheat.
   Oats. 3
86. Wolf, John, Canton. Grasses. 8
87. Wyman, Byron F., Sycamore. Grasses. 8

GROUP 3.
88. Bone, F. E., Tallula. Sorghum. 24
89. Burdick, J. L., Rockford. Sorghum. 24
91. Confectioners’ and Bakers’ Supply Co. Chicago. Confectionery. 27
92. Furman, E. S., El Paso. 17
   Sugar cane.
   Sorghum. 24
93. Hay, Leon, Kankakee. Sorghum. 24
94. Heins & Ripley, Belleville. 17
   Sugar cane.
   Sorghum. 24
95. Hooker, M. A., McLeansboro. Sorghum. 24
96. Huff, Jacob, Grand Detour. Sorghum. 24
97. Kimmel, W. G., Jonesboro. Sugar cane. 17
98. La Rosh, S. D., Pekin. Sorghum. 24
99. McHenry, J. W., Carmi. 17
   Sugar cane.
   Sorghum. 24
100. Masac County Fruit Growers’ Ass’n, Metropolis. Sorghum. 24
102. Neeper, A., Kinmundy. Sorghum. 24
104. Shedden, Robert, Pingree Grove. Sugar cane. 17
105. Sibley, C. W., Pana. Sorghum. 24
106. University of Illinois, Champaign. Sorghum. 24

GROUP 4.
108. Bone, F. E., Tallula. 28
   Potatoes.
   Sugar beets, mangels wurzels, etc. 29
   Turnips. 30
109. Brumback, David, Danforth. Potatoes, sweet potatoes, yams. 28
110. Burdick, J. L., Rockford.  
   a Potatoes.  
   b Beets.  
   c Turnips, carrots, beets.  
   28  

   a Potatoes.  
   b Sugar beets.  
   c Carrots, turnips, etc.  
   28  

   28  

113. Chester, T. P., Champaign.  
   a Potatoes, sweet potatoes, yams, etc.  
   b Sugar beets, mangel wurzels.  
   c Carrots, beets, turnips, etc.  
   28  

   sweet potatoes.  
   28  

   a Potatoes, yams, etc.  
   b Mangel wurzels.  
   c Carrots, turnips, beets.  
   28  

   a Potatoes.  
   b Mangel wurzels.  
   c Carrots, turnips, beets, etc.  
   28  

117. Hay, Leon, Kankakee.  
   a Potatoes, sweet potatoes, yams, etc.  
   b Mangel wurzels.  
   28  

118. Helms & Ripley, Belleville.  
   a Potatoes, sweet and Irish, yams, etc.  
   b Sugar beets and mangel wurzels.  
   c Carrots, turnips, beets, etc.  
   28  

   a Potatoes, sweet potatoes, yams, etc.  
   b Mangel wurzels.  
   c Carrots, turnips, beets, etc.  
   28  

120. Hooker, M. A., McLeansboro. Potatoes.  
   sweet potatoes, yams, etc.  
   28  

   a Potatoes.  
   b Beets.  
   c Peanuts.  
   31  

122. LaRosh, S. D., Pekin.  
   a Potatoes, sweet potatoes, yams, etc.  
   b Sugar beets, mangels.  
   c Carrots, turnips and beets.  
   28  

123. Massac County Fruit Growers Ass’n, Metropolis.  
   a Potatoes, sweet potatoes, yams.  
   b Mangel wurzels.  
   c Carrots, turnips, etc.  
   28  

   a Potatoes.  
   b Beets.  
   c Carrots, turnips, etc.  
   28  

125. Seiler, J. E., Mt. Carmel. Potatoes.  
   sweet potatoes.  
   28  

126. Sibley, C. W., Pana.  
   a Potatoes, sweet potatoes.  
   b Carrots, turnips, beets, artichokes.  
   28  

   28  

128. Vanbel, Adam, Peoria.  
   a Potatoes, sweet potatoes, yams.  
   b Mangel wurzels.  
   c Carrots, turnips and beets.  
   28  

129. Weedman, T. S., Farmer City.  
   a Potatoes.  
   b Carrots, beets, turnips.  
   28  

   32  

   32  

   32  

133. Chester, T. P., Champaign. Pumpkins, peas, beans.  
   32  

   32  

135. Fursman, E. S., El Paso. Broom corn, pumpkins, peas, beans, etc.  
   32  

   32  

   32  

   32  

   32  

140. La Rosh, S. D., Pekin. Broom corn, pumpkins, squashes.  
   32  

   32  

142. Massac County Fruit Growers’ Ass’n, Metropolis. Broom corn.  
   32  

   32  

144. Shedden, Robert, Pingree Grove. Broom corn.  
   32  

   32  

   32  

   32  

GROUP 5.  

   48  

149. Brumback. David, Danforth. Peppers, etc.  
   47  

   47  

   48  

152. Chester, T. P., Champaign.  
   a Peppers.  
   b Tobacco.  
   47  

   47  

154. Fursman, E. S., El Paso.  
   a Hops.  
   b Peppers.  
   c Tobacco.  
   48  

   48  

156. LaRosh, S. D., Pekin.  
   a Peppers, etc.  
   b Tobacco.  
   48  

   a Pepper.  
   b Tobacco.  
   43  

   48  

159. Nash, J. E., Princeton.  
   a Hops.  
   b Peppers.  
   c Tobacco.  
   48  

   48  

   48  

   48  

163. Wendman, T. S., Farmer City.  
   a Hops.  
   b Peppers.  
   c Tobacco.  
   48
INDIANA.

GROUP 1.

1. Armentrout, W. D., Crawfordsville. Wheat. 1
2. Barker, I. N., Thorntown. a Corn. 1
   b Clover seed. 1
3. Bazner, John, Bunker Hill. Corn. 1
4. Beach, B. S., Valparaiso. Corn. 1
5. Beers, Thomas, Hecla. Wheat. 1
6. Bennett, Harry, Franklin. Corn. 2
7. Blair, John, Peru. Wheat. 1
8. Boyer, John, Thorntown. Corn. 2
9. Bridges, B. F., Rockport. Corn. 1
10. Burk, Ellis, Crawfordsville. a Oats. 3
   b Barley. 4
11. Cap, I. B., & Son, Bicknell. Corn. 2
12. Clark, Joseph, Goodland. Clover seed. 9
13. Cloud, David, Thorntown. Corn. 1
14. Colwell, S. N., Mt. Ayr. Corn. 1
15. Connolly, W. A., El River. Corn. 2
16. Cooper, D. F., Columbia City. Wheat. 1
17. Corey, James, Oakland City. Oats. 3
18. Coss, John, Bellmore. Clover seed. 9
19. Creager, Peter, Columbia City. Corn. 2
20. Culbertson, E. & C., Moorfield. a Barley. 4
   b Timothy. 8
   c Clover seed. 9
21. Curry, John, New Carlisle. Wheat. 1
22. Davis, Joseph E., Marion. Corn. 2
23. Decker, Geo., Columbia City. Oats. 3
24. Deller, A., Angola. a Corn. 2
   b Oats. 3
25. Devericks, James A., La Fontaine. Timothy. 8
26. Dickens, B. W., Marion. Wheat. 1
27. Dibble, Chas., Patriot. Buckwheat. 7
29. Downing, Charles, Greenfield. Corn. 2
30. Downing, Geo. H., Crawfordsville. Corn. 2
31. Druiliner, Quinby, Mill Creek. Oats. 3
32. Dungan, W. S., Franklin. Corn. 2
33. Edwards, Charles, Peru. a Corn. 2
   b Oats. 3
34. Ettinger, Geo. D., Bourbon. a Oats. 3
   b Rye. 5
   c Buckwheat. 7
35. Ettinger, Geo. D., Bourbon. Wheat. 1
36. Everett, J. A., Indianapolis. a Wheat. 1
   b Corn. 2

37. Fischer, Emory, Borden. Wheat. 1
38. Gilmore, A. S., Greensburg. Wheat. 1
39. Goss, John, Bellmore. a Wheat. 1
   b Oats. 3
   c Barley. 4
   d Rye. 5
   e Buckwheat. 7
40. Gregg, W. P., Goodland. Corn. 2
41. Harper, Elijah, Oakland City. Corn. 2
42. Hayden, Charles L., Otwell. Corn. 2
43. Hayworth, James H., Georgetown. Oats. 3
44. Hodges, Mrs. Stella, Rockport. Wheat. 1
45. Hoff, Henry O., Ligonier. Oats. 2
46. Hughes, Austin, Newport. Corn. 2
47. Indianapolis Hominy Mills, Indianapolis. Grits. 11
48. Key, J. P., Patoka. Corn. 2
49. Kirmighoff, D., Angola. Wheat. 1
50. Lee, Chas. S., Sugar Branch. Wheat. 1
51. Lenhard, Christopher, Poling. Corn. 2
52. Long, J. S., Salamonia. Wheat. 1
53. Louton, O. P., Hillsdale. Wheat. 1
54. Magill, A. L., Franklin. Timothy. 8
55. Marvel, John, Indianapolis. a Timothy and orchard grass. 8
   b Clover seed. 9
56. Maze, W. A., Sharpsville. Corn. 2
57. McCreary, Albt., Markland. Oats. 3
58. McCollough, Maxwell, Crawfordsville. Corn. 2
59. McGinley, Isaac, Valparaiso. Corn. 2
60. Miller, Ed., Peru. Corn. 2
61. Miller, Geo. W., West Lebanon. Wheat. 1
62. Miller, H. F., Rockport. Corn. 2
63. Moore, James, Bloomington. Wheat. 1
64. Moore, J. W., Ligonier. Corn. 2
65. Morris, C. S., Angola. Barley. 4
66. Morrison, W. L., Scottsburg. Corn. 2
68. Norris, C. S., Angola. Wheat. 1
69. Nowlin, A. E., Lawrenceburg. Corn. 2
70. Pickett, JAMES, Greensboro. Wheat. 1
71. Powers, L. A., Angola. a Rye. 5
   b Buckwheat. 7
72. Pumphrey, Geo. O., Mt. Ayr. Corn. 2
73. Reynolds & Son, Weaver. Barley. 4
74. Reynolds & Son, Weaver. Wheat. 1
75. Riley, Howard, Thorntown. Corn. 2

GROUP 9.

164. Bone, F. E., Tallula. Cotton. 59
165. Brumback, David, Danforth. Cotton and flax. 59
166. Burdick, J. L., Rockford. Flax. 59
167. Chester, T. P., Champaign. Cotton and flax. 59
170. La Rosk, S. D., Pekin. Hemp and flax. 59
171. Neeper, A., Kimmundy. Hemp. 59
172. Shedden, Robert, Pingree Grove. Hemp and flax. 59
173. Weedman, T. S., Farmer City. Hemp. 59
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<th>Crop(s)</th>
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<td>St. Johns Creamery, St. Johns</td>
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<td>142</td>
<td>Williams, I. J., &amp; Son, Muncie</td>
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</tbody>
</table>

**GROUP 7.**

**GROUP 8.**

**GROUP 9.**

**GROUP 10.**

**GROUP 11.**

**GROUP 12.**

**GROUP 13.**
IOWA

GROUP 1.

   a Corn.  
   b Millet.  
   2.

   10.

   1.

   a Wheat.  
   b Oats.  
   1.

5. Bice, Clyde, Perry. Corn.  
   a Oats.  
   b Buckwheat.  
   2.

   a Oats.  
   b Buckwheat.  
   2.

   1.

   a Wheat.  
   b Corn.  
   c Oats.  
   d Rye.  
   1.

   a Wheat.  
   b Corn.  
   c Oats.  
   d Barley.  
   e Rye.  
   f Buckwheat.  
   g Grasses.  
   1.

    1.

11. Cownie, John W., South Amana. Timothy seed.  
    2.

    2.

    2.

14. Doolittle, J. E., Cresco.  
    a Corn.  
    b Oats.  
    c Rye.  
    3.

15. Elliott, Joseph, Polen.  
    a Wheat.  
    b Corn.  
    1.

    2.

    2.

    1.

19. Harvey, Graves, Des Moines. Millet seed.  
    1.

    4.

    2.

    3.

    a Rye.  
    b Timothy.  
    2.

    2.

25. James, Moses, Perry. Corn.  
    2.

    a Corn.  
    b Oats.  
    c Timothy.  
    3.

    a Wheat.  
    b Corn.  
    c Oats.  
    d Rye.  
    1.

    2.

    2.

    2.

31. McCulloch, Fred, Hartwick.  
    a Corn.  
    b Oats.  
    2.

32. Nims Bros., Emerson.  
    a Oats.  
    b Buckwheat.  
    c Grasses.  
    2.

    a Grasses, timothy and millet.  
    b Alfalfa.  
    1.

    1.

    a Corn.  
    b Clover seed.  
    2.

36. Plymouth County World's Fair Ass'n, Le Mars.  
    a Wheat.  
    b Flour and mill feed.  
    1.

37. Price, John, Des Moines.  
    a Wheat.  
    b Rye.  
    1.

38. Reeves, Elmer, Waverly. Grasses.  
    1.

    2.

40. Rundell, L., Iowa City.  
    a Wheat.  
    b Barley.  
    2.

    2.

42. Rutherford, J. B., Manchester. Rye.  
    5.

43. Smith, E. H., Dubuque.  
    a Wheat.  
    b Oats.  
    c Rye.  
    1.

44. Smuder, Jacob A., Marshalltown. Corn.  
    2.

    2.

    a Oats.  
    b Rye.  
    c Timothy.  
    2.

47. Surfas, C. V., Bristow.  
    a Corn.  
    b Oats.  
    2.

48. Thompson, Wm., Humboldt.  
    a Corn.  
    b Timothy seed.  
    2.

49. Werges, Fred, National.  
    a Wheat.  
    b Oats.  
    1.

    3.

51. White, F. S., Des Moines.  
    a Wheat.  
    b Oats.  
    c Barley.  
    d Buckwheat.  
    e Timothy, grass and millet seeds.  
    8.

52. Wilson, W. A., Waterloo. Wild grasses.  
    8.

53. Wright, E. P., Summerset.  
    a Wheat.  
    b Corn.  
    c Oats.  
    d Buckwheat.  
    e Millet and timothy.  
    8.
**GROUP 3.**

| 54. | Clute, L. G., Manchester. Honey and beeswax. | 26 |
| 55. | Herroll, Henry, Ridgedale. Syrup. | 24 |
| 56. | Kretchmer, E., Red Oak. Honey, beeswax and bee culture appliances. | 26 |
| 57. | Wherry, J. P., Guernsey. Syrup. | 24 |

**GROUP 4.**

| 58. | Clute, L. G., Manchester. |
| a | Irish and sweet potatoes. | 28 |
| b | Garden and table vegetables and root crop. | 28 |
| 59. | Collman, A. F., Corning. Potatoes. | 28 |
| 60. | Gabrilson, C. L., New Hampton. Potatoes. | 28 |
| 61. | Hethershaw, James, Des Moines. Potatoes. | 28 |
| 62. | Wright, E. P., Summerset. Potatoes. | 28 |

**GROUP 5.**

| 63. | Clute, L. G., Manchester. Beans. | 32 |

**GROUP 6.**

| 64. | Garber, J., Rockwell. Butter. | 42 |
| 65. | Lyon, Mrs. C. H., Dexter. Butter. | 42 |
| a | Butter. | 42 |
| b | Cheese. | 43 |

**GROUP 9.**

| 68. | Clute, L. G., Manchester. Flax seed. | 59 |

**GROUP 17.**

| 69. | Clayton, B. F., Macedonia. Soil. | 93 |
| 70. | Crosby, Jas. O., Garnavillo. Soil. | 93 |
| 71. | Guelich, Theod., Burlington. Soil. | 93 |
| 72. | Madden, J. J., Le Mars. Soil. | 93 |
| 73. | McCullough, Fred, Hartwick. Soil. | 93 |
| 74. | Roberts, A. C., Fort Madison. Soil. | 93 |
| 75. | Thompson, Jasper, Forest City. Soil. | 93 |
| 76. | Wilson, James, Ames. Soil. | 93 |

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**KENTUCKY.**

| 28. | Hammer, William E., Morganfield. Wheat. | 1 |
| 29. | Hart, B. M., Bozkieville. Corn. | 2 |
| 30. | Harris, Amos, Flournoy. Wheat. | 1 |
| 31. | Hayworth, R. M., Bardwell. Wheat. | 1 |
| 32. | Henry, Arthur, Shelbyville. Clover seed. | 9 |
| a | Wheat. | 1 |
| b | Corn. | 2 |
| 34. | Hewlett, J. R., Princeton. |
| a | Wheat. | 1 |
| b | Grass. | 8 |
| 35. | Hill, Bona, Henderson. Wheat. | 1 |
| 36. | Hite, J. W., Waverly. Wheat. | 1 |
| 37. | Ingram, J. F., Princeton. Wheat. | 1 |
| 38. | Jackson, Joe, Clinton. Wheat. | 1 |
| 39. | Jackson, W. J., Clinton. Wheat. | 1 |
| 40. | Johnson, M. D., Casey. Wheat. | 1 |
| 41. | Lambert, Robert, Morganfield. Corn. | 2 |
| 42. | Lowery, W. A., Hopkinsville. Wheat. | 1 |
| 43. | Martin, George, Carding. Corn. | 2 |
| 44. | McConnett, R. Y., Jordan. Wheat. | 1 |
| 45. | Morgan, R. R., Princeton. Corn. | 2 |
| 46. | Moseley, W. W., Arlington. Wheat. | 1 |
| 47. | Oty, J. W., Robard. Corn. | 2 |
| a | Oats. | 3 |
| b | Timothy. | 8 |
| 49. | Penniman, J. D., Clinton. |
| a | Wheat. | 1 |
| b | Clover. | 9 |
| 50. | Pettitt, G. W., Princeton. Wheat. | 1 |
| 51. | Prather, Edward, Casky. Wheat. | 1 |
| 52. | Radford, W. T., Pembroke. Wheat. | 1 |
| 53. | Ratliff, R. B., Princeton. |
| a | Wheat. | 1 |
| b | Grass. | 8 |
| 54. | Rowley, Robert, Uniontown. |
| a | Wheat. | 1 |
| b | Corn. | 2 |
### UNITED STATES

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<tr>
<th>No.</th>
<th>Name, Address, Product</th>
<th>Description</th>
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<tbody>
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<td>55.</td>
<td>Rudd, Allen, Owensboro. Wheat</td>
<td>1</td>
</tr>
<tr>
<td>56.</td>
<td>Scovell, M. A., Lexington. Wheat</td>
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<tr>
<td>57.</td>
<td>Shetton, P. T., Newstead. Corn</td>
<td>2</td>
</tr>
<tr>
<td>58.</td>
<td>Sims, L. B., Cobb. Wheat</td>
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<td>59.</td>
<td>Small, T. T., Allensville. Wheat</td>
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<td>60.</td>
<td>Spicer, J. W., Clinton. Wheat</td>
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<td>61.</td>
<td>Stanley, Nat., Owensboro. Wheat</td>
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<td>62.</td>
<td>Stanley, William, Scuffletown. Corn</td>
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<tr>
<td>63.</td>
<td>Stone, Alfred, Clinton. Wheat</td>
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<td>64.</td>
<td>Stowe, Robert, Lexington. Orchard grass</td>
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<td>65.</td>
<td>Sublett, J. C., Clinton. Wheat</td>
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<td>66.</td>
<td>Sugg, John, Morganfield. Wheat</td>
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<td>67.</td>
<td>Surr, R. J., Lexington. Bluegrass</td>
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<td>68.</td>
<td>Tucker, W. H., Roscoe. Wheat</td>
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<td>69.</td>
<td>Wakefield, Brown, Trenton. Wheat</td>
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<td>70.</td>
<td>Waller, Mrs., Morganfield. Wheat</td>
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<td>71.</td>
<td>Wall, M. M., Allenville. Wheat</td>
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<td>72.</td>
<td>Walton, Frank, Allenville. Wheat</td>
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<td>73.</td>
<td>Whayne, T. P., Clinton. Wheat</td>
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<td>74.</td>
<td>White, H. C., Trenton. Wheat</td>
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<td>75.</td>
<td>Wilson, T. J., Wilson. Wheat</td>
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<td>76.</td>
<td>Young, J. W., Henshaw. Wheat</td>
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#### GROUP 8

| 77. | Adams, Q., Lewisport. Tobacco | 48 |
| 78. | Allen, J. C., Shelbyville. Burley leaf tobacco | 48 |
| 79. | Ash, W. C. Burley leaf tobacco | 48 |
| 80. | Barrett, James, Henderson. Tobacco | 48 |
| 81. | Bennett, Edward, Henderson. Tobacco | 48 |
| 82. | Blakemore, Sam, New Castle. Burley leaf tobacco | 48 |
| 84. | Boyd, L. Kelley. Tobacco | 48 |
| 85. | Boyd, Roe, Kelley. Tobacco | 48 |
| 86. | Bradford, S. W., Augusta. Burley leaf tobacco | 48 |
| 87. | Bryant, Henry, Gracey. Tobacco | 48 |
| 89. | Busch, Marion, Versailles. Burley leaf tobacco | 48 |
| 90. | Byar, Sam, Augusta. Burley leaf tobacco | 48 |
| 91. | Calhoun, George C., Owensboro. Tobacco | 48 |
| 93. | Camp, Richard, Trenton. Tobacco | 48 |
| 94. | Camp, Richard, Trenton. Tobacco | 48 |
| 95. | Carroll, M. H., Fairview. Tobacco | 48 |
| 96. | Cassidy, J. T., Lexington. Burley leaf tobacco | 48 |
| 98. | Clardy, F. C., Newstead. Tobacco | 48 |
| 99. | Clardy, J. D., & Sons, Newstead. Tobacco | 48 |
| 100. | Clarke, Edward, Owensboro. Tobacco | 48 |
| 101. | Cooper, J. W., Smiths. Tobacco | 48 |
| 102. | Craig, J. B., Waverly. Tobacco | 48 |
| 103. | Craton, Edwin, Owensboro. Tobacco | 48 |
| 104. | Crenshaw, Al., Dripping Springs. Tobacco | 48 |
| 105. | Crenshaw, J. T., Shelbyville. Burley leaf tobacco | 48 |
| 109. | Dawson, Mont., Dripping Springs. Tobacco | 48 |
| 110. | Dawson, Wick, Perdue. Tobacco | 48 |
| 111. | Denton, J. D., Henderson. Tobacco | 48 |
| 112. | Elgin, F. W., Hopkinsville. Tobacco | 48 |
| 113. | Elliott, Wm. J. Burley leaf tobacco | 48 |
| 114. | Ellis, C. M., Shelbyville. Burley leaf tobacco | 48 |
| 116. | Felix, Judge J. J. Burley leaf tobacco | 48 |
| 117. | Fritz, John, Fairview. Tobacco | 48 |
| 118. | Fritz, Michael, Hopkinsville. Tobacco | 48 |
| 120. | Furguson, Robert, Paris. Burley leaf tobacco | 48 |
| 121. | Gaines, J. J., Gracey. Tobacco | 48 |
| 123. | Garrett, Samuel, Princeton. Tobacco | 48 |
| 124. | Garth, Webb, Trenton. Tobacco | 48 |
| 125. | Gill, Robert, Allenville. Tobacco | 48 |
| 126. | Goetz, Casper, Owensboro. Tobacco | 48 |
| 128. | Hardy, J., Owensboro. Tobacco | 48 |
| 130. | Hawkins, W. B., Lexington. Burley leaf tobacco | 48 |
| 132. | Heilman, Jacob, New Castle. Burley leaf tobacco | 48 |
| 133. | Hester, James C., Sedalia. Tobacco | 48 |
| 134. | Hill, Bona, Henderson. Tobacco | 48 |
136. Hodge, Edward, Henderson. Tobacco. 48
137. Holbrook, O. S., Hartford. Tobacco. 48
139. Hutchens, Sam, Bardstown. Burley leaf tobacco. 48
140. Jesse, T. M., New Castle. Burley leaf tobacco. 48
141. Johnson, Benjamin, Allensville. Tobacco. 48
142. Johnson, Fantley, Versailles. Burley leaf tobacco. 48
143. Kirsh, Louis, Bardstown. Burley leaf tobacco. 48
144. Latham, J. W., Lexington. Burley leaf tobacco. 48
145. Leachman, W. H. Burley leaf tobacco. 48
146. Leadford, J. H., Dripping Springs. Tobacco. 48
147. Le Dau, Joseph, Owensboro. Tobacco. 48
149. Lloyd, Evan, Maysville. Burley leaf tobacco. 48
150. Lloyd, J. T., Augusta. Burley leaf tobacco. 48
151. Lockett, Walter, Henderson. Tobacco. 48
152. Logan, D. C., Lexington. Burley leaf tobacco. 48
154. Lucas, Jeff, Frankfort. Burley leaf tobacco. 48
155. McEntyre, John J., Owensboro. Tobacco. 48
156. McKee, Dr. J. R., Versailles. Burley leaf tobacco. 48
157. Mason, Robert, Gracey. Tobacco. 48
158. Mays, E. D. Burley leaf tobacco. 48
159. Mitchell, S. J., Carrollton. Burley leaf tobacco. 48
160. Morgan, R. R., Princeton. Tobacco. 48
161. Neal, Billy. Burley leaf tobacco. 48
162. Neal, F R. Burley leaf tobacco. 48
163. Neal, J. L., Harrodsburg. Burley leaf tobacco. 48
164. Offutt, Ezra, Georgetown. Burley leaf tobacco. 48
165. Paine, Jesse, Pembroke. Tobacco. 48
166. Panisk, Thomas, Versailles. Burley leaf tobacco. 48
167. Payne, Geo. V., Georgetown. Burley leaf tobacco. 48
168. Pendleton, F. B., Pembroke. Tobacco. 48
169. Peppen, R. P., Frankfort. Burley leaf tobacco. 48
170. Perkins, William, Trenton. Tobacco. 48

171. Pickett, E. D., Maysville. Burley leaf tobacco. 48
172. Pickett, Jas., Shelbyville. Burley leaf tobacco. 48
173. Rice, J. M., Taylorsville. Burley leaf tobacco. 48
174. Riley, N., Allensville. Tobacco. 48
175. Robertson, Tom, Maysville. Burley leaf tobacco. 48
176. Roch, Robert, Gracey. Tobacco. 48
177. Rollins, W. R., Lebanon. Burley leaf tobacco. 48
178. Shaver, Felix, Hartford. Tobacco. 48
179. Siule, T. M., Fairview. Tobacco. 48
180. Snyder, James, Taylorsville. Burley leaf tobacco. 48
181. Spaulding, Wm., Lebanon. Burley leaf tobacco. 48
182. Stallard, Pitt, Taylorsville. Burley leaf tobacco. 48
183. Stanley, N. B., Owensboro. Tobacco. 48
185. Taylor, W. T. Burley leaf tobacco. 48
186. Thompson, Wm. Z., Georgetown. Burley leaf tobacco. 48
187. Thornton, W. W., Lebanon Burley leaf tobacco. 48
188. Todd, W. M., Winchester. Tobacco. 48
189. Triplett, R. B., Georgetown. Burley leaf tobacco. 48
190. Ubank, J. E., Winchester. Tobacco. 48
191. Wakefield, Brown, Trenton Tobacco. 48
192. Walton, J. J., Burlington. Burley leaf tobacco. 48
193. Ware, C. W., Trenton. Tobacco. 48
194. White, H. C., Trenton. Tobacco. 48
195. Willis, J. C., Hopkinsville. Tobacco. 48
196. Wilson, T. G., Wilson. Tobacco. 48
197. Wood, E. W., Owensboro. Tobacco. 48
198. Wood, H. B., Hopkinsville. Tobacco. 48

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199. Guthie, James, Shelbyville. Hemp. 59
200. Laughridge, W. J., Lexington. Hemp. 59
201. McCauley, W. P., Versailles. Hemp. 59
202. Morgan, R. C., Lexington. Hemp. 59
204. Vance, R. J., Shelbyville. Hemp. 59
205. Winston, Avery S., Lexington. Hemp. 59
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   - Oats. 3
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   - Raw and clarified sugars and syrups. 18

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5. Louisiana World's Fair Commission, New Orleans. Silk cocoons. 61
   - Cotton. 53
   - Cotton seed oil and hulls. 56

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1. Cheen, S. W. L., Exeter Mills. Barley. 4
2. Blodgett, Geo. H., Bowdoinham. Corn. 2
3. Blossom, L. H., South Turner. Corn. 2
5. Briggs, D. J., South Turner. Corn. 2
6. Butler, Alonzo, Union. Wheat. 1
7. Day, Prentiss, Kennebunk. Barley. 4
10. Hardison, H. S., Caribou. Wheat. 1
   - Oats. 3
   - Barley. 4
12. Johnson, N., Springfield. Corn. 2
13. Littlefield, O. W., Augusta. Barley. 4
14. McKeen, A. W., North Fryeburg. Oats. 3
15. Meader, O., Albion. Corn. 2
   - Barley. 4
17. Pinkham, N. C., Bolster's Mills. Wheat. 1
   - Barley. 2
18. Roberts, Dimon, Goodwin's Mills. Barley. 4
   - Rye. 5
19. Smart, Jesse, North Turner. Rye. 5
20. Smith, C. E., Boothbay. Oats. 3
   - Oats. 3
   - Barley. 4
   - Rye. 5
22. Sprague, E. B., Bowdoinham. Corn. 2
23. Sweetser, C. S., North Yarmouth. Oats. 3
24. Taylor, J. H., Kennebunk. Wheat. 1
   - Wheat. 1
   - Barley. 4
   - Rye. 5
27. Upton, H. N., Bethel. Wheat. 1
   - Corn. 2
28. Willey, B. F., Cherryfield. Wheat. 1
   - Oats. 3
29. Willey, E. D., Clinton. Wheat. 1
   - Oats. 3
30. Yeaton, J. H., Augusta. Oats. 3

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32. Hoyt, W., Ripley. Honey. 26
33. Meader, O., Albion. Maple syrup. 21
34. Norton, W. H., Skowhegan. Honey. 26
35. Wheeler, C. J., Chesterville. Maple syrup. 21

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36. Edgcomb, S. P., Belfast. Turnips. 30
37. Edgerly, E. E., Princeton. Carrots. 30
38. Jerrard, Geo. W. P., Caribou. Potatoes. 28
40. McFadden, Orrin, Cedar Grove. Carrots. 30
41. Pinkham, N. C., Bolster's Mills. Beets. 29
   - Turnips. 30
42. Snell, H. H., Riverside. Carrots. 30
43. Spaulding, G. W., North Anson. Carrots. 30
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| 48. | Allen, Carter, Hampden Centre. Beans. | 32 |
| 49. | Edgerly, E. E., Princeton. Beans. | 32 |
| 50. | Fernald, Eliot, Saco. Beans. | 32 |
| 51. | French, Moses, & Son, Solon. Beans. | 32 |
| 53. | King, S. M., South Paris. Beans. | 32 |
| 54. | Luce, W. A., So. Union. Beans. | 32 |
| 55. | Norcross, M. F., Winthrop. Beans. | 32 |
| 56. | Plummer, James, South Dover. Beans. | 32 |
| 57. | Smart, Jesse, North Troy. Pease. | 32 |
| 58. | Snell, H. H., Riverside. Pease and beans. | 32 |
| 59. | Spalding, G. W., North Anson. Pease. | 32 |
| 60. | Taylor, J. H. Pease. | 32 |
| 61. | Tucker, Herbert M., South Paris. Pease. | 32 |
| 62. | Upton, N. H., Bethel. Pease. | 32 |
| 63. | Watson, S. C., Oakland. Beans. | 32 |
| 64. | Willey, E. D., Clinton. Pease. | 32 |

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| 66. | Brook Farm Creamery, Foxcroft. Butter. | 42 |
| 67. | Cape Elizabeth Creamery, Cape Elizabeth. | 42 |
| 69. | East Pittston Creamery, Pittston. Butter. | 42 |
| 70. | Haines, A. L., Fort Fairfield. Cheese. | 43 |
| 71. | Livermore Dairying Association, Livermore. Butter. | 42 |
| 72. | Meader, O., Albion. Butter. | 42 |
| 73. | Norcross, M. F., Winthrop. Cheese. | 43 |
| 74. | Perley, C. J., Cross Hill. Butter. | 42 |
| 75. | Porter, Ira J., Houlton. Butter. | 42 |
| 76. | Riverside Creamery, Foxcroft. Butter. | 42 |
| 77. | Robbins, Mrs. M. L., Winthrop. Butter. | 42 |
| 79. | Skowhegan Jersey Creamery, Skowhegan. Butter. | 42 |
| 80. | Turner Centre Creamery, Turner. Butter. | 42 |

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| 81. | Bretman, J. O., Readfield. Wool. | 60 |
| 82. | Day, Prentiss, Kennebunk. Wool. | 60 |
| 83. | Deane, C. H., Livermore Falls. Wool. | 60 |
| 84. | Flint, Geo., North Anson. Wool. | 60 |
| 85. | Longley, J. B., Palmyra. Wool. | 60 |
| 86. | Plummer, James, South Dover. Wool. | 60 |
| 87. | Porter, S. W., Houlton. Wool. | 60 |

### MASSACHUSETTS.

#### GROUP 1.

| 1. | Allen, J. W., Amherst. Corn. | 2 |
| 2. | Averill, Geo. L., North Andover. Corn. | 2 |
| 3. | Bancroft, Wm. L., Chesterfield. Corn. | 2 |
| 4. | Barlow, Henry, & Sons, Peru. Wheat. | 1 |
| 5. | Bates, Edwin, Lynn. Corn. | 2 |
| 6. | Benton, John B., Barre. Corn. | 2 |
| 7. | Berry, Albert, North Andover. Corn. | 2 |
| 8. | Bigelow, J. R. & D. F., Petersham. a Corn. | 2 |
| 8. | Bigelow, J. R. & D. F., Petersham. b Oats. | 3 |
| 9. | Birnie, Chas. A., Longmeadow. Corn. | 2 |
| 10. | Boultwell, Wm. L., Leverett. Corn. | 2 |
| 11. | Bradford, Ralph H., South Egremont. Buckwheat. | 2 |
| 12. | Buell, C. L., Ludlow. Corn. | 2 |
| 13. | Busby, Leon M., Monterey. Corn. | 2 |
| 14. | Carpenter, G. H., South Hadley. Grasses. | 8 |
| 15. | Cowles, Oliver, Amherst. Corn. | 2 |
| 16. | Crabtree, Sumner, Natick. Corn. | 2 |
| 17. | Cutting, Walter, Pittsfield. a Corn. | 2 |
| 17. | Cutting, Walter, Pittsfield. b Oats. | 3 |
| 17. | Cutting, Walter, Pittsfield. c Buckwheat. | 7 |
| 17. | Cutting, Walter, Pittsfield. d Grasses. | 8 |

#### GROUP 8.

| 18. | Deming, Amos, Savoy. a Corn. | 2 |
| 18. | Deming, Amos, Savoy. b Oats. | 3 |
| 18. | Deming, Amos, Savoy. c Barley. | 4 |
| 18. | Deming, Amos, Savoy. d Grass. | 8 |
| 19. | De Wolf, Geo. H., Mendon. Corn. | 2 |
| 20. | Dickinson, F. M. & Son, Belchertown. Corn. | 2 |
| 21. | Dillon, J. C., Amherst. Corn. | 2 |
| 22. | Dodge, Wm. H., Cheshire. Corn. | 2 |
| 23. | Fairbanks, Chas. W., Charlemont Corn. | 2 |
| 24. | Fisher, E. N., Ludlow. Corn. | 2 |
| 25. | Flanders, Albert J., Chilmark. Corn. | 2 |
| 26. | Frissell, D. & Sons, Peru. a Wheat. | 1 |
| 26. | Frissell, D. & Sons, Peru. b Oats. | 3 |
| 26. | Frissell, D. & Sons, Peru. c Barley. | 4 |
| 26. | Frissell, D. & Sons, Peru. d Buckwheat. | 7 |
| 27. | Frissell, Homer, Peru. Oats. | 3 |
| 28. | Frissell, John, Peru. Barley. | 4 |
| 29. | Frissell, John Z., Peru. Oats. | 3 |
| 30. | Goddard, Mrs. M. T., Newton. Corn. | 2 |
| 32. | Hayward, Monroe, Agawam. Corn. | 2 |
| 33. | Holcomb, Geo. W., Chester. Oats. | 3 |
| 34. | Judd, C. A., South Hadley. Corn. | 2 |
| 35. | Kellogg, Frank N., Sheffield. Rye. | 5 |
   a Corn.  
   b Oats.  
37. Kent, G. S., Belchertown.  
   a Oats.  
   b Grasses.  
42. Leonard, Spencer, Bridgewater. Corn.  
43. Lincoln, F. W., Oakham. Rye.  
44. Lincoln, H. W., Oakham.  
   a Corn.  
   b Oats.  
45. Longfellow, Andrew S., Groveland. Corn.  
46. Massachusetts Agricultural College, Amherst.  
   a Corn.  
   b Rye.  
47. McIntosh, Wm. W., Nantucket.  
   a Corn.  
   b Oats.  
49. Nichols, H. W., Sturbridge.  
   a Oats.  
   b Barley.  
   a Corn.  
   b Oats.  
52. Pease, Jerome, Wilbraham.  
   a Corn.  
   b Oats.  
55. Pratt, Preston, South Weymouth. Corn.  
57. Randall, N., & Son, Belchertown. Corn.  
   a Corn.  
   b Barley.  
64. Smith, C. K., Sunderland. Corn.  
66. Smith, Newton, South Hadley. Corn.  
67. Squires, E. S., Worthington.  
   a Oats.  
   b Buckwheat.  
68. Stebbins, C. E., South Deerfield.  
   a Wheat.  
   b Corn.  
   c Oats.  
   d Barley.  
   e Rye.  
70. Warren, Edward, Spencer. Corn.  

GROUP 3.
72. Hubbard, Parker, Sunderland. Maple sugar.  

GROUP 4.
73. Clarke, Milford H., Sunderland.  
   Onions.  
78. Lawton, Charles, Leverett. Onions.  

GROUP 5.

GROUP 8.
84. Brell, John, Hadley. Leaf tobacco.  
86. Graves, Cephas, Sunderland. Leaf tobacco.  
87. Newton, N. Clark, North Hadley. Leaf tobacco.  
89. Shiderton, Charles, Hadley. Leaf tobacco.
## MINNESOTA.

### GROUP 1.

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<th></th>
<th>Name</th>
<th>Crop(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>1</td>
<td>Alrich, J. F., Worthington</td>
<td>Wheat</td>
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<td>Anderson, Louis, Norcross</td>
<td>Wheat</td>
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<td>3</td>
<td>Arnold, Adam, Mankato</td>
<td>Corn</td>
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<td>4</td>
<td>Bass, J. J., Rosetown</td>
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<td>5</td>
<td>Bende, John, Chaska</td>
<td>Corn</td>
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<td>6</td>
<td>Boynton, L. J., Red Wing</td>
<td>Wheat</td>
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<td>Bredol, L. L., Springfield</td>
<td>Corn</td>
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<td>Brian, J. H., Burnside</td>
<td>Wheat</td>
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<td>9</td>
<td>Brian, T. J., Red Wing</td>
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<td>Brules, N., Mankato</td>
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<td>Buffrem, J. W., Owatonna</td>
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<td>Chambers, Willis, Havana</td>
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<td>Crandall, J. C., Red Wing</td>
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<td>Dalton, Chas. H., Wrightstown</td>
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<td>Dick, Francis, Afton</td>
<td>Wheat</td>
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<td>16</td>
<td>Hanson, Peter E., Litchfield</td>
<td>Wheat</td>
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<td>Harris, J. A., Owatonna</td>
<td>Wheat, Hay seed</td>
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<td>18</td>
<td>Hoard, E. H., Red Wing</td>
<td>Wheat</td>
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<td>19</td>
<td>Johnson, John C., Ellsborough</td>
<td>Corn</td>
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<td>20</td>
<td>Kilen, A. R., Brownsburg</td>
<td>Wheat, Corn</td>
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<td>21</td>
<td>Kinchebecker, W. R., Owatonna</td>
<td>Wheat, Rye, Oats</td>
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<td>22</td>
<td>Larson, Emil, Sabin</td>
<td>Corn</td>
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<tr>
<td>23</td>
<td>Lovell, F. R., Vernon Centre</td>
<td>Corn</td>
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</tbody>
</table>

### GROUP 4.

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Crop(s)</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>43</td>
<td>Bass, J. J., Rosetown</td>
<td>Corn</td>
<td></td>
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<tr>
<td>44</td>
<td>Best, W. S., St. Paul</td>
<td>Potatoes</td>
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<tr>
<td>45</td>
<td>Pearce, M., Chouen</td>
<td>Potatoes</td>
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### GROUP 5.

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<tr>
<th></th>
<th>Name</th>
<th>Crop(s)</th>
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<tr>
<td>46</td>
<td>Burkla, Paul, Stillwater</td>
<td>Beans</td>
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<tr>
<td>47</td>
<td>Chambers, Willis, Havana</td>
<td>Beans</td>
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## MISSOURI.

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**GROUP 3.**

- 150. Agricultural College of Missouri, Boone County. Sorghum (30 varieties)
- 160. McMaster, M., Schell City. Sorghum
- 161. McNorton, E. H., Schell City. Sorghum

**GROUP 5.**

- 163. Bell, F. M., Independence. Broom corn
- 164. Dallas, Thos., Schell City. Broom corn
- 165. Greenland & Knapp, Green Ridge. Broom corn
- 166. Null, Thos., Green Ridge. Broom corn
- 167. Reed, Nathan, Green Ridge. Broom corn
- 169. Wadleigh, Everett, Green Ridge. Broom corn
- 170. Williams, Chas., Independence. Broom corn

**GROUP 8.**

- 171. Agricultural College of Missouri, Boone County. Tobacco (32 varieties)
- 172. Craighead, W. R., Fulton. Tobacco
- 173. Sitton, T. J., Fulton. Tobacco

**GROUP 9.**

- 175. Farner, H. D., Platte City. Flax
- 176. Peters, N. G., Schell City. Flax seed
- 177. Stirzing, Waldemar, Fulton. Hemp
MONTANA.

GROUP I.

1. Alford, W. H., Stevensville. Wheat. 1
2. Allard, Wm. L., Laurel. Oats. 3
3. Amsden, D., Laurine. Oats. 3
4. Anderson, August, Fish Creek. Wheat. 1
5. Austin, A. A., Missoula. Oats. 3
7. Bailey & O'Donnell, Billings. a Wheat. 1 b Oats. 3 c Blue joint and timothy hay. 8 d Alfalfa. 9
8. Baker, Thos. W., Stevensville. a Oats. 3 b Timothy hay. 8
9. Ballard, Geo., Townsend. Oats. 3
10. Baltasar, Julius, Mountain Side. Blue joint and bunch grass. 8
11. Banford, Jacob T., Laurel. Oats. 3
12. Barkell, James, Twin Bridges. Oats. 3
13. Bealingburg, N., Race Track. a Wheat. 1 b Timothy hay. 8
14. Beall, John, Fish Creek. Wheat. 1
15. Birely, Wm., Billings. Wheat. 1
16. Bisel, Ben, Bozeman. a Oats. 3 b Timothy hay. 8
17. Bode, Wm., Laurel. Buckwheat. 7
18. Bouchard, Alf., Careless Creek. a Oats. 3 b Barley. 4
20. Brooking, John, Bozeman. Wheat. 1
21. Brooks, J. W., Sheridan. a Wheat. 1 b Oats. 3 c Grasses. 8
22. Broomfield, Mrs. John, Bozeman. a Wheat. 1 b Oats. 3
24. Buchanan, A. S., Stevensville. a Wheat. 1 b Oats. 3
25. Byard, John, White Sulphur Springs. Timothy hay. 8
26. Caldwell, Wm., Bozeman. a Wheat. 1 b Oats. 3 c Barley. 4
27. Carney, M., Sheridan. Oats. 3
28. Carney, P., Twin Bridges. a Wheat. 1 b Oats. 3 c Timothy hay. 8
29. Carwin, W. S., Philbrook. Oats. 3
30. Catlin Bros., White Sulphur Springs. Timothy hay. 8
31. Catlin, Geo., White Sulphur Springs. Timothy hay. 8
32. Chaffee, Chas. M., Billings. Oats. 3
33. Clausen, Thomas, Fish Creek. Wheat. 1
34. Clement, M., Frenchtown. Wheat. 1
35. Cline, V. E., Bozeman. a Wheat. 1 b Oats. 3 c Barley. 4 d Hay. 8
36. Cobb, Jno. M., Stevensville. a Wheat. 1 b Oats. 3 c Barley. 4 d Alfalfa. 9
37. Collins, C. C., Hillsdale. Wheat. 1
39. Corwin, W. S., Philbrook. Wheat. 1
40. Cramer Bros., Laurel. Oats. 3
41. Crawford Bros., Shawmut. a Oats. 3 b Barley. 4 c Blue stem grass. 8 d Alfalfa. 9
42. Cree, A. M., Miles City. Corn. 2
43. Cunningham, Hy., Monarch. Oats. 3
44. Cyr, Eloi, Grass Valley. Oats. 3
45. Cyr, J. E., Grass Valley. Oats. 3
46. Daly, Marcus, Hamilton. Oats. 3
47. Danforth, Ezra, Missoula. Oats. 3
48. Danis, Henry, Billgrade. Barley. 4
49. Davis, L. M., Lo. Lo. Wheat. 1
50. Daws, J. S. & J. W., Salesville. Barley. 4
51. Dean, George, Townsend. Alfalfa. 9
52. DeLong, Alex., Missoula. Corn. 2
53. Deschamps, Caspar, Grass Valley. a Wheat. 1 b Oats. 3 c Rye. 5 d Timothy and red top hay. 8
54. Deschamps, R., Grass Valley. a Wheat. 1 b Oats. 3 c Timothy hay. 8
55. Dukes, Mrs. Ed., Missoula. a Wheat. 1 b Oats. 3 c Timothy hay. 8
56. Eldred, C., Twin Bridges. Oats. 3
57. Emil, Peter, Bozeman. a Wheat. 1 b Oats. 3
58. Federsohn, Peter, Missoula. Corn. 2
59. Fergerson, M. M., Bozeman. Barley. 4
60. Fergerson, V. M., Bozeman. Wheat. 1
61. Flanagan, Michael, Billings. Wheat. 1
62. Flynery Bros., Bozeman. Barley. 4
63. Fleming, T. J., Fort Logan. Bunch grass hay. 8
64. Foley, Thos., Missoula. Wheat. 1
65. Foster, Frank, Fish Creek. Oats. 3
66. Foster, Z. D., Fish Creek. Oats. 3
67. Fostle, William, Sheridan. Grasses. 1
68. Fowler, Samuel, Bozeman. a Oats. 3 b Barley. 4
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<td>Massing, Ed., Careless Creek.</td>
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<td>Mathews, Scott, Bozeman.</td>
<td>Oats</td>
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<td>117</td>
<td>McClain, T. A., Carleton.</td>
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<td>McDonald, John, Bozeman.</td>
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<tr>
<td>119</td>
<td>McKinley, George E., Bozeman. Red top and timothy hay.</td>
<td>Wheat, barley, grass</td>
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<td>120</td>
<td>Meneffe, R. P., Bozeman.</td>
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<td>121</td>
<td>Millard, H., Belt. Corn.</td>
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<td>Miller, Luther, Stevensville. Wheat.</td>
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<td>123</td>
<td>Mitchell, Sydney, Missoula. Wheat.</td>
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<td>124</td>
<td>Moore, P. J., Martinville. Blue joint grass.</td>
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<td>125</td>
<td>Murray, Wm., Billgade.</td>
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<td>126</td>
<td>Myers, Alfred, Shecals River.</td>
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<td>127</td>
<td>Myers, Wm., Salesville.</td>
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<td>128</td>
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<td>Nutting, Lucius A., Laurel. Alfalfa</td>
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<td>Storey, Nelson &amp; Co., Gallatin Valley. Flour.</td>
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<td>O'Keefe, D. C., Missoula.</td>
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<td>134</td>
<td>Omarr, John, White Sulphur Springs. Native grass hay.</td>
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<td>138</td>
<td>Patterson, J. L., Canton.</td>
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<td>3 8 11</td>
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<td>141</td>
<td>Pickering, J. G., Canton. Barley.</td>
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<td>Rader, C. T., Fort Logan. Red top and blue joint grass.</td>
<td>Wheat, flour</td>
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<td>144</td>
<td>Ray, Emby, Bozeman. Oats.</td>
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UNITED STATES.

145. Reed, W. H., Carleton.  
   a Wheat. 1  
   b Oats. 3  
   c Millet.  

146. Reeves, George P., Townsend. Blue joint grass and timothy hay. 8  

147. Reeves, J. G., Bozeman. Wheat. 1  

148. Riggan, F. A., Fish Creek. Wheat. 1  

149. Rose, Charles, Frenchtown. Wheat. 1  

150. Roso, Ed., Careless Creek. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  

151. Roso, John, Careless Creek. Timothy hay. 8  

152. Roy, Mrs. Emily, Bozeman. Wheat. 1  

153. Sales, Charles, Salesville. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  
   c Rye.  
   d Timothy hay. 8  

154. Shaffer, Peter, Frenchtown. Oats. 3  

155. Shaughnessy, John B., Missoula. Oats. 3  

156. Sherman, Charles, White Sulphur Springs. Timothy hay. 8  

157. Sidensticker, John, Twin Bridges. Oats. 3  

158. Simpson, James W., Stevensville. Oats. 3  

159. Smith Bros., Martinsdale. Oats. 3  

160. Smith, M., Maiden. Wheat. 1  

161. Spooner, Jos., Stevensville. Wheat. 1  

162. Spurgin, Wm., Missoula. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  
   c Rye.  
   d Timothy hay. 8  

163. Stafford, J. T., Cañon Ferry. Corn. 2  

164. Stoltz, Frank J., Park City. Oats. 3  

165. Stone, R. H., Red Bluffs. Rye. 5  

166. Strong, Wm., Miles City. Corn. 2  

167. Stuart, A., Townsend. Blue joint grass. 8  

168. Sutherlin Bros., White Sulphur Springs. Barley. 4  

169. Thomas Bros., Sheridan. Oats. 3  
   a Oats. 3  
   b Grasses. 8  

170. Thompson, Thomas, Townsend. Oats. 3  

171. Tinsley, J. W., Canton. Popcorn. 2  

172. Titman, J., Fosston. Oats. 3  

173. Warner, M., Maiden. Wheat. 1  


175. Wearwood, Wm., Courts. Wheat. 1  

176. Weaver, Chancy, Miles City. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  

177. Weinfour, Frank, Bozeman. Wheat. 1  

178. Welch, Wm., Bozeman. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  

179. West, D. H., Townsend. Oats. 3  

180. White, Alex., Missoula. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  

181. White, George H., Missoula. Wheat. 1  
   a Wheat. 1  
   b Oats. 3  
   c Rye. 5  

182. White, G. H., Missoula. Oats. 3  

183. Whitesides, Andrew, Bonita. Oats. 3  

184. Wickham, George, Fish Creek. Wheat. 1  
   a Sweet corn. 2  
   b Oats. 3  

185. Winters, Chas., Missoula. Oats. 3  

186. Vantine, H., Bozeman. Wheat. 1  

187. Wyhn, John, Bozeman. Wheat. 1  

188. Wyrock, J., Twin Bridges. Barley. 4  

GROUP 4.  

189. Burns, T. C., Chinook. Potatoes. 28  

190. Ester, Sim, Beaver Head. Potatoes. 28  

191. King, Charles, Park City. Potatoes. 28  

192. Mugford, John, Townsend. Potatoes. 28  

193. Rife, Ike, Beaver Head. Potatoes. 28  

194. Sanford, Jacob T., Laurel. Potatoes. 28  

195. Sutherlin Bros., White Sulphur Springs. Potatoes. 28  


GROUP 5.  

197. Haynes, E. E., Miles City. Vegetables. 32  

198. Tichorn, Jos., Miles City. Vegetables. 32  

199. Tinsley, J. W., Canton. Tomatoes. 32  

GROUP 9.  

200. Sidensticker, John, Twin Bridges. Flax. 59  

GROUP 17.  

201. Hedges, W. A., Careless Creek. Soil. 93  

NEW HAMPSHIRE.  

GROUP 1.  


2. Abbott, Stanley H., East Wilton. 2  
   Corn. 2  

3. Ayers, A. R., North Boscawen. Rye. 5  


5. Barret Bros., Newport. Corn. 2  

   a Wheat. 1  
   b Rye. 4  
   c Rye. 5  
   d Timothy. 8  

   Corn. 2  

8. Benton, William P., Lebanon. Corn. 2  

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<td>Daniels, W. F., Franklin. Wheat.</td>
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<td>Dearborn, Henry, Pembroke. Corn.</td>
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<td>Dunbar, W. C., Warner. Corn.</td>
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<td>Dunlap, W. F., &amp; W. B., West Salisbury. Corn.</td>
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<td>c Rye.</td>
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<td>Foss, Richard W., Strafford Corner. Corn.</td>
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<td>Gove, M. D., Enfield. Corn.</td>
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<td>Gray, Samuel N., Farmington. Corn.</td>
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<td>35.</td>
<td>Greenleaf, Benjamin, Enfield. Wheat.</td>
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<td>Hatch, Fred P., Lebanon. Corn.</td>
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<td>Hatch, George A., Pittsfield. Corn.</td>
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<td>38.</td>
<td>Hook, Mrs. H. H., Contoocook. Corn.</td>
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<td></td>
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<td>b Oats.</td>
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<td>b Corn.</td>
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<td>76.</td>
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<td>Woods, Arthur, Bath. Wheat.</td>
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**GROUP 3.**

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<td>89.</td>
<td>Ambrose, Langdon C., Sandwich. Maple sugar and syrup.</td>
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<td>90.</td>
<td>Atwood, Alfred C., Sandwich. Maple sugar and syrup.</td>
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<td>91.</td>
<td>Brooks, Silas, Freedom. Maple sugar and syrup.</td>
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<td>92.</td>
<td>Burlingham, J. M., East Wakefield. Maple sugar and syrup.</td>
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<td>93.</td>
<td>Clark, John H., Acworth. Maple sugar and syrup.</td>
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<td>94.</td>
<td>Craig, B. M., Rumney. Maple sugar and syrup.</td>
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<td>Elliott, E. H., Rumney. Maple sugar and syrup.</td>
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<td>Fellows, B. F., Sandwich. Maple sugar and syrup.</td>
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<td>Fife, Henry M., Campton. Maple sugar and syrup.</td>
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<td>Pollard, Albert S., Samworth. Maple sugar and syrup.</td>
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<td>Pulsifer, Chas. W., Campton. Maple sugar and syrup.</td>
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<td>Pulsifer, David B., Campton. Maple sugar and syrup.</td>
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## UNITED STATES.

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<th>No.</th>
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<th>Variety</th>
<th>Weight</th>
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<td>102</td>
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<td>Campton</td>
<td>Maple</td>
<td>sugar and syrup</td>
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<td>103</td>
<td>Quimby, Alfred</td>
<td>Sandwich</td>
<td>Maple</td>
<td>sugar and syrup</td>
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<tr>
<td>104</td>
<td>Quimby, H. H.</td>
<td>Sandwich</td>
<td>Maple</td>
<td>sugar and syrup</td>
<td>21</td>
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<td>105</td>
<td>Quimby, John S.</td>
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<td>Maple</td>
<td>sugar and syrup</td>
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<td>Quimby, Wm. F.</td>
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<td>Maple</td>
<td>sugar and syrup</td>
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<td>107</td>
<td>Remick, Francis P.</td>
<td>Samworth</td>
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<td>Runney</td>
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<td>109</td>
<td>Smith, David</td>
<td>Freedom</td>
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<td>sugar and syrup</td>
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<td>110</td>
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<td>112</td>
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<td>Stickney, Wm. H.</td>
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### GROUP 5.

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<th>Variety</th>
<th>Weight</th>
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<td>114</td>
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<td>115</td>
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<td>Pease</td>
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### NEW YORK.

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**Newspaper:** WORLD'S COLUMBIAN EXPOSITION.
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243. Moore, William, Lyons. Barley. 4
244. Moore, John S., Medina.
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252. Newcomb, A. J., Flint. Corn. 2
253. Niewell, E. S., De Ruyter. Oats. 3
254. Newell, Roger, Huron. Barley. 4
255. Newland, William, Orleans. Oats. 3
257. Newton, John, Hopewell Centre.
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258. Nichols, Peter F., Lewis. Rye. 5
259. Nichols, Scott, Adamsville.
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261. Nuteaway, Peter, Schoharie. Rye. 5
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263. Paine, E. C., Albion. Corn. 2
264. Paine, John, Greece.
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271. Pelton, P. R., Monticello. Rye. 5
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273. Perry, R. M., Medina. Wheat. 1
274. Pettit, Henry, Medina.
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275. Pickett, Daniel, Millville.
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   d Barley.  4
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UNITED STATES.

44. Canup, C., Salisbury.
   a Wheat.  1
   b Corn.  2
   c Oats.  3
   d Pease.  9

45. Carlton, A. W., Warsaw. Rice.  6

46. Carlton, S., Warsaw.
   a Wheat.  1
   b Rice.  6

47. Carmichael, J. A., John Station. Rice.  6

   a Corn.  2
   b Rye.  5

   a Wheat.  1
   b Corn.  2
   c Oats.  4
   d Pease.  9

50. Chamblee, W. H., Wakefield. Corn.  2

51. Chitty, W. H., Menola. Wheat.  1

52. Clapp, Carroll, Newton. Rice.  6

53. Clemmons, E. T., Asheville. Grass.  8

54. Click, M., Augusta. Corn.  2

55. Cloverdale, Daisy, Raleigh. Oats.  3

56. Coffield, J. E., Cisco. Oats.  3

57. Collett, Jno., Thomasville. Wheat.  1

58. Conrad, A. E., Lewisville. Wheat.  1

59. Costner, W. A. Lincoln ton
   a Wheat.  1
   b Corn.  2
   c Oats.  3

60. Cox, R. L., Winston.
   a Wheat.  1
   b Corn.  2
   c Oats.  3

   a Wheat.  1
   b Corn.  2
   c Oats.  3

   a Corn.  2
   b Oats.  3

63. Crawford, Lee, Franklin. Wheat.  1

64. Cress, P. J., China Grove. Wheat.  1

65. Cronly, M., Jr., Wilmington. Rice.  6

66. Cunningham, J. S., Cunningham
   a Wheat.  1
   b Corn.  2
   c Oats.  3
   d Pease.  9

   a Wheat.  1
   b Corn.  2
   c Oats.  3
   d Pease.  9

68. Dale, J. A., Bridgewater. Wheat.  1

69. Davis, C. W., Engle hard. Oats.  3

70. Davis, E. L., Augusta. Pease.  9

   a Corn.  2
   b Pease.  9

72. Davis, T. R., Augusta. Corn.  2

73. Davis, T. W., Creek.
   a Corn.  2
   b Pease.  9

74. Davis, W. E., Creek.
   a Corn.  2
   b Oats.  3

75. Deadman, J. H., Augusta.
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   b Corn.  2
   c Pease.  9

76. Deal, M. S. Newton.
   a Wheat.  1
   b Oats.  3
   c Pease.  9

77. Doughton, T. H., Laurel Springs. Corn.  2


80. Doughty, J. H., Laurel Springs.
   a Rye.  5
   b Buckwheat.  7

81. Dull, E. C., Phafftown. Wheat.  1

82. Dunston, Dr. H. V., Windsor.
   a Oats.  3
   b Pease.  9

83. Early, A. E., Aulander. Wheat.  1

84. Early, A. W., Aulander. Oats.  3

   a Wheat.  1
   b Pease.  9

86. Edmundson, A. J., Shine. Pease.  9

87. Elder, Lee, Trinity College. Corn.  2

88. Elms, J. H., Pineville. Corn.  2

89. Emery, F. E., Raleigh. Pease.  9

90. Emory, T. L., Weldon. Corn.  2

91. Estes, S. F., Upton.
   a Wheat.  1
   b Corn.  2
   c Buckwheat.  7
   d Pease.  9

92. Etheridge, E. E., Colerain.
   a Corn.  2
   b Pease.  9

93. Etheridge, Jno., Snowden. Rice.  6

94. Fagg, M. J., Asheville. Grass.  8

95. Farmer, T. R., Hasty. Corn.  2

96. Felton, W. B., Rockyhock. Pease.  9

97. Fiegler, L., Bethania. Oats.  3

   a Wheat.  1
   b Hay.  8

   a Wheat.  1
   b Corn.  2
   c Oats.  3

100. Finley, J. H., Edneyville. Corn.  2


102. Forney, Robt., Bridgewater.
   a Wheat.  1
   b Oats.  3
   c Rye.  5
   d Buckwheat.  7
   e Pease.  9

103. Fulp, Dr. E., Fulp.
   a Wheat.  1
   b Oats.  3


105. Gibbs, Robt., Gibbs. Corn.  2

   a Wheat.  1
   b Corn.  2
   c Oats.  3
   d Buckwheat.  7
   e Pease.  9

   a Wheat, threshed and in straw.  1
   b Corn.  2

108. Goforth, A. J., Belmont. Corn.  2


110. Goldston, Maxton. Oats.  3
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<td>Oats</td>
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<td>347</td>
<td>Wood, J. H.</td>
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<td>Woolf, J. A.</td>
<td>Rural Hall</td>
<td>Wheat</td>
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<td>349</td>
<td>Wooten, S. J.</td>
<td>LaGrange</td>
<td>Rice</td>
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<td>Wyatt, E. R.</td>
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<td>Pease</td>
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<td>351</td>
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<td>Wheat</td>
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<tr>
<td>352</td>
<td>Yost, J. A.</td>
<td>Salisbury</td>
<td>Oats</td>
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<tr>
<td>353</td>
<td>Ziegler, J.</td>
<td>Bethania</td>
<td>Wheat</td>
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**GROUP 3.**

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<tr>
<th>No.</th>
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<th>Location</th>
<th>Crop</th>
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<td>354</td>
<td>Aline, Baron d'</td>
<td>Biltmore</td>
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<td>356</td>
<td>Biggerstaff, A. W.</td>
<td>Lincolnton</td>
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<td>357</td>
<td>Blue, John</td>
<td>Laurinburg</td>
<td>Sugar cane</td>
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<td>Bowditch, J. A.</td>
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<td>359</td>
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<td>Harts</td>
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<td>361</td>
<td>Brown, R. A.</td>
<td>Wilson's Store</td>
<td>Sorghum and</td>
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<td>cane seed</td>
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<td>Robinson, J. M.</td>
<td>Burnsville</td>
<td>Sorghum</td>
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394. Sawyer, W. R., Stonewall. Sorghum. 34
395. Spikes, H., Fieldsboro. Cane seed. 34
396. Tinley, J. H., Edneyville. Sorghum. 34
397. Tucker, J. T., Lane's Creek. Sorghum. 34
398. Watson, Mrs. T. B., Ridgeway. Sorghum. 24
399. Whitesell, J. C., Elon College. Sorghum. 34
401. Williams, J. C., Willetson Sorghum. 24
402. Williams, J. C., Winslow. Sorghum. 24
403. Wolfe, A. A., Pittsboro. Sorghum. 24

GROUP 4.

404. Battle & Howard, Rocky Mount. Peanuts. 31
406. Boswell, W. F., Edenton. Peanuts. 31
408. Cannon, G. H., Town Creek. Peanuts. 31
409. Carr, J. H., Xenia. a Chulas. 30
410. Early, A. W., Aulander. Peanuts. 31
411. Edmundson, A. J., Shine. Peanuts. 31
412. Etheridge, E. E., Colerain. Peanuts. 31
413. Gamble, H. M., Salisbury. Peanuts. 31
414. Gatling, J. J., Sarem. Peanuts. 31
416. Gilmore, M., Egypt. Peanuts. 31
417. High, A. J., Whiteville. Peanuts. 31
418. Jordan, G. F., Bergaw. Peanuts. 31
419. Kennedy, W. L., Lenoir. Peanuts. 31
420. Lee, G. B., Rocky Point. Peanuts. 31
421. Mason, J. W., Edenton. Peanuts. 31
422. McIvor, M. A., Egypt. Peanuts. 31
423. McLain, D. L., Maxton. Peanuts. 31
424. McIntyre, E., Green Hill. Peanuts. 31
425. Moye, A. J., Farmville. Peanuts. 31
426. Newbury, H. E., Magnolia. Peanuts. 31
427. Paul, E. B., Lumberton. Peanuts. 31
428. Perry, J. W., Leewood. Peanuts. 31
429. Pharr, W. S., Charlotte. Peanuts. 31
430. Prince, M. B., Henderson. Peanuts. 31
431. Ricks, R. H., Rocky Mount. Peanuts. 31
432. Seymour, J. W., Sligo. Peanuts. 31
433. Southener, D. D., Laurinburg. Peanuts. 31
434. Stanton, D. M., La Grange. Peanuts. 41
435. Stokes, J. B., Windsor. Peanuts. 31
436. Tinley, J. H., Edneyville. Peanuts. 31
437. Thames, J. B., Fayetteville. Peanuts. 31
438. Thorn, Mrs. M. P., Elm City. Peanuts. 31
439. Walker, S. J., Columbia. Peanuts. 31
440. Watson, Mrs. W. F., Scotland Neck. Peanuts. 31
441. Wharton, R. W., Washington. Peanuts. 31
442. Williams, H. C., Willetson. Peanuts. 31
443. Williams, J. C., Winslow. Peanuts. 31

GROUP 5.

444. Aline, Baron d', Asheville. Teosinte roots. 32
446. Boyce, W. W., Pineville. Kaffir corn. 32
447. Bowditch, J. A., Miscaville. Beans and sunflower seed. 32
448. Branch, W. E., Enfield. Beans. 32
449. Carr, J. H., Xenia. Tuberose bulbs. 32
450. Davis, W. E., Creek. Beans. 32
452. Emery, F. E., Raleigh. Beans. 32
453. Ethridge, E. E., Colerain. Beans. 32
454. Holt & Homewood, Burlington. Broom corn. 32
455. Lowman, M., Connelly Springs. Beans. 32
456. Miller, W. M., Burnsville. Beans. 32
457. Moye, A. J., Farmville. Sunflower seed. 32
458. Newberry, H. E., Magnolia. Doler tongue. 32
460. Perry, J. W., Lewood. Beans. 32
461. Prince, M. B., Henderson. Broom corn. 32
462. Ricks, R. H., Rocky Mount. Beans. 32
463. Riggan, R. H., Edwardsville. Beans. 32
464. Rust, J. R., Bridgewater. Beans. 32
465. Sanborn, G. C, Currituck. Sunflower seed. 32
466. Sherrill, Elbert, Sherrill ford. Beans. 32
467. Taylor, Mrs. L. C., Morganton. Beans. 32
468. Vail, J. G., Morganton. Beans. 32
471. Woolf, J. A., Rural Hall. Beans. 32

GROUP 8.

472. Holt & Homewood, Burlington. Hops. 46
473. Smith, Mrs. J. M., Fayetteville. Un-colored tea. 45

GROUP 9.

474. Archer, J. T., Jackson. Cotton lint, seed and bolls. 53
475. Bateman, J., S., Creswell. Cotton lint, seed and bolls. 53
476. Biggerstaff, A. W., Lincolnton. Cotton lint, seed and bolls. 53
478. Butler, M. F., Rutherfordton. Cotton lint, seed and bolls. 53
479. Cannon, G. H., Iron Creek. Cotton lint, seed and bolls. 53
480. Carr, J. H., Xenia. Cotton lint, seed and bolls. 53
481. Carthey, L. G., Mt. Holly. Cotton lint, seed and bolls. 53
482. Charles, J. N., Jerusalem. Cotton lint, seed and bolls. 53
483. Creekmore, W. P., Moyock. Cotton lint, seed and bolls. 53
484. Davis, W. E., Creek. Cotton lint, seed and bolls. 53
485. Dunston, Dr. H. Y., Windsor. Cotton lint, seed and bolls. 53
486. Edmundson, A. J., Shine. Cotton lint, seed and bolls. 53
487. Etheridge, E. E., Colerain. Cotton lint, seed and bolls. 53
488. Evans, J. & O., Fayetteville. Cotton lint, seed and bolls. 53
489. Gibson, J. B., Maxton. Cotton seed. 53
490. Graham, W. A., Machpelah. Cotton lint, seed and bolls. 53
491. High, A. H., Whiteville. Cotton lint, seed and bolls. 53
492. Holt, T. M., Linwood. Cotton lint, seed and bolls. 53
493. Holt & Homewood, Burlington. Flax. 59
WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

516. Williams, H. C., Willetton. Cotton lint, seed and bolls. 53
517. Williams, J. C., Winslow. Cotton lint, seed and bolls. 53
518. Williams, J. M., Clover. Cotton lint, seed and bolls. 53
519. Wood, J. H., Neldon. Cotton lint and seed. 53

GROUP 16.

520. Townsend, J. L., Fulmore. Stalk cutter. 88

GROUP 17.

521. Battle, Gaston, Rocky Mount. Soil from cotton land. 93
522. Carter, W. S., Fairfield. Soil from corn land. 93
523. Currin, J. M., Oxford. Soil from tobacco land. 93
524. French Bros., Rocky Point. Lime, rock and marl. 93
525. Gwyn, R. L., Mt. Airy. Soil from grain land. 93
526. Hackburn & Milletts, Newbern. Soil from trucking land. 93
527. Holt, T. M., Linwood. Soil from grain land. 93
528. Hoyt, Jno. K., Luther. Soil from apple land. 93
529. Kidder, Fred., St. Philips. Soil from rice land. 93
530. Porter, R. L., Franklin. Soil from grass and grain land. 93
531. Stevens, W. E., Clinton. Soil from fruit land. 93
532. Stowe, Jasper, Belmont. Soil from grain land. 93
533. Tarbell, C. D., Southern Pines. Soil from fruit land. 93
534. Tucker, R. S., Raleigh. Soil from grass and grape land. 93
535. Williams, H. C., Willetton. Soil from peanut land. 93
536. Wilson, A. E., Montezuma. Soil from grass and grain land. 93

NORTH DAKOTA.

GROUP 1.

1. Allen, J. J., Bismarck. Oats. 3
2. Beatty, O. K., Carrington. Rye. 5
3. Bolton, Thomas, Park River. Oats. 3
4. Casey, L. R., Carrington. Wheat. 1
5. Couch, W. B., Bismarck. Oats. 3
6. Eckland, John, Eckland. Oats. 1
7. Engle, M. J., Lisbon. Wheat. 1
8. Ferris, Charles, Bismarck. Corn. 2
11. Fletcher, Alfred, Jamestown. Wheat. 1
12. Fuller, W. B., Bismarck. Ripe. Corn. 2
14. Hall, Ralph, Carrington. Wheat. 1
15. Haynes, L. H., Fargo. Wheat. 1
16. Hayes, W. M., Fargo. Wheat. 1
17. Hiatt, W. G., Power. Corn. 2
18. Hocking, John G., Ripon. Corn. 2
19. Hopes, John, Bismarck. Wheat. 1
20. Johnson, Alfred, Painted Woods. Corn. 2
22. Killian, Fred., Bismarck. Oats. 3
23. Lewis, Ida, Bismarck. Corn. 2
25. McCauley, George, Bismarck. Corn. 2
26. McDonald, J. L., Bismarck. Oats. 3
27. McFarley, James, Bismarck. Oats. 3
28. McNenly, Andrew, Fargo. Oats. 3
29. MCMAHON, J., Fargo. Corn. 2
30. McPherson, John, McKinzie. Corn. 2
31. Margeson, Ole, Grass Lake. Wheat. 1
32. Meachem, O. J., Carrington. Wheat. 1
33. Murphy Bros., Carrington. Wheat. 2
34. Nichols, John, Bismarck. Corn. 2
35. Oates, James, Bismarck. Oats. 1
36. Oates, John, Bismarck. Oats. 1
37. Oates, Lewis, Bismarck. Oats. 1
| 35. | Norton, John, Bismarck. Corn. | 2 |
| 36. | Oleson, Andrew, Eckland. Wheat. | 1 |
| 37. | Page, E. M., Carrington. Rye. | 2 |
| 38. | Parkin, H. S., Cannon Ball. Corn. | 2 |
| 39. | Power, J. B., Power. Corn. | 2 |
| 40. | Quinlan, John, Bismarck. a Wheat. | 2 |
| 41. | Robinson, Wm., Carrington. Rye. | 5 |
| 42. | Sears, E. L., Ripon. Corn. | 2 |
| 43. | Sleepen, Wm., Grass Lake. Wheat. | 1 |
| 44. | Sperry, E. H., Bismarck. Corn. | 2 |
| 45. | Sweeney, Wm., Carrington. Wheat. | 1 |
| 46. | Tyler, E. S., Fargo. Wheat. | 1 |
| 47. | Tubbs, W. E., Mandan. Corn. | 2 |
| 48. | Willey, Will, Bismarck. Corn. | 2 |
| 49. | Wilcox, Mrs. Peter, Bismarck. Corn. | 2 |
| 50. | Wells, E. P., Jamestown. Oats. | 3 |
| 51. | Wade, I. C., Jamestown. Oats. | 2 |

### OHIO.

#### Group 1.

| 1. | Allen, Joseph, Gano. Wheat in straw. | 1 |
| 2. | Aple, Henry, Haskins. Wheat. | 1 |
| 3. | Bailey, John, Scotch Ridge. Wheat in straw. | 1 |
| 4. | Baker, Charles, Delaware. Corn. | 2 |
| 5. | Baker, Samuel, Weston. a Wheat. | 1 |
| 7. | Bandeen, A., Haskins. Wheat in straw. | 1 |
| 8. | Benschuter, J. S., Grand Rapids. Oats. | 3 |
| 9. | Beverage, S. F., Athens County. Corn. | 2 |
| 10. | Beverstock, Edward, Tontogany. Corn. | 2 |
| 11. | Biddell, James, Weston. Oats. | 3 |
| 13. | Blodgett, James, Weston. Corn. | 2 |
| 14. | Bonham, L. N., Oxford. a Oats. | 3 |
| 15. | Brandt, Fred J., Bowling Green. Corn. | 2 |
| 17. | Brown, Elwood, Weston. Corn. | 2 |
| 18. | Burshoter, J. S., Grand Rapids. Grass seed. | 8 |
| 20. | Brown, Wm., Weston. a Wheat. | 1 |
| 23. | Cling, Amos, Marion. Grass seed. | 8 |
| 24. | Coe, B. E., Weston. a Wheat. | 1 |
| 25. | Corwin, D. F., Warren County. Corn. | 2 |
| 26. | Corwin, D. J., Warren County. a Wheat. | 1 |
| 27. | Corwin, E. J., Warren County. a Wheat in straw. | 1 |
| 28. | Crofts, Thos., Toledo. a Oats. | 3 |
| 29. | Cross, Thomas, Toledo. Corn. | 2 |
| 30. | Culbertson, Eli, Grand Rapids. a Wheat in straw. | 1 |
| 31. | Culbertson, Joseph, Grand Rapids. a Wheat. | 1 |
| 32. | Demis, L. J., Maumee. Wheat in straw. | 1 |
| 33. | Dewesse & Son, Weston. Wheat. | 1 |
| 34. | Ellis S. H., Springboro. a Corn. | 2 |
| 35. | Emerick, Geo., Haskins. Wheat in straw. | 1 |
| 36. | Erwin, Cornelius, Butler County. Corn. | 2 |
| 37. | Farnsworth, Watson, Waterville. Oats. | 3 |
| 38. | Foot, Joel, Tontogany. Wheat in straw. | 1 |
| 39. | Fillmore, Jas., Weston. Corn. | 2 |
| 40. | French, B. A., Lenox. Wheat in straw. | 1 |
| 41. | Fuller, A. B., Bowling Green. Corn. | 2 |
| 42. | Gilespie, J. L., Monroe County Corn. | 2 |
| 43. | Gumm, M. B., North Madison. Wheat in straw. | 1 |
| 44. | Hackerman, D. J., Neopolis. a Corn. | 2 |
| 45. | Hall, David, Bloom Center. a Wheat. | 1 |
| 46. | Hance, Ed., Grafton. Wheat in straw. | 1 |
| 47. | Hannah, Wm., Tontogany. Corn. | 2 |
| 49. | Harrison, W. G., Carlton. Wheat in straw. | 1 |
| 50. | Harris, Joseph, Butler County. Corn. | 2 |
| 51. | Heckerman, D. J., Neopolis. a Corn. | 2 |
| 52. | Horn, Jos., Bowling Green. Corn. | 2 |
| 53. | Huber, Allen, Logan County. Corn. | 2 |
| 54. | Jewell, Geo., Weston. Corn. | 2 |
| 55. | Jewell, Young, Defiance. Wheat in straw. | 1 |
| 56. | Jones, Elmer, Weston. Wheat in straw. | 1 |
| 57. | Jones, Wm., Weston. a Wheat. | 1 |
| 58. | Keckley, Jos., Marysville. Corn. | 2 |
64. Mann, A., Bowling Green. Corn.
65. Martin, Mr., Weston. a Wheat in straw. b Corn. c Oats.
66. Martin, William, Weston. a Wheat in straw. b Corn. c Oats.
67. McKane, Scotch Ridge. Wheat in straw.
69. Neifer, Albert, Weston. a Wheat. b Corn. c Grasses and grass seeds.
71. Nichols, Robert, Butler County. Corn.
72. Ohio Agricultural Experiment Station. a Wheat in straw. b Oats.
73. Pettys, Lester, Weston. Wheat.
75. Powell, Frank, Haskins. Oats.
76. Potter, Henry, Tontogany. a Wheat. b Oats.
78. Pugh, Wm., Weston. Oats.
81. Russ, Wm., Weston. a Wheat in straw. b Oats.
82. Santer, Jacob, Weston. Wheat in straw.
83. Sawyer, R. E., Tiro. Wheat in straw.
84. Shafer, S. H., Logan County. Corn.
85. Shroyer, T., Preston Wheat in straw.
86. Simms, Ewing, Eugene. Corn.
87. Simmons, Frank, Bloom Center. Oats.
89. Sterns, John, Weston. Wheat in straw.
91. Stretchberry, James, Weston. Corn.
92. Stretchberry, Wm., Weston. a Wheat. b Corn.
94. Wade, Ojeda, Weston. Corn.
96. Week's, Amos, Lima. Wheat in straw.
97. Western Cemetery Association, Weston. Grass seed.
98. Whipp's, W. H., Marion. a Wheat. b Corn. c Oats.
99. Whipp, W. D., Marion. Corn.
100. Williams, Berry, Butler County. Corn.

GROUP 5.
104. Croft, Thomas, Toledo. Vegetable seed.
106. Huber, Allen, Logan County. Ten varieties vegetable seed.

GROUP 6.
115. Binkley, Henry, Miamisburg. Ohio and Dutch seed leaf tobacco.
118. Busch, Lewis, Bantam. White burley seed leaf tobacco.
120. Coles, C. A., Farmersville. Spanish seed leaf tobacco.
121. Cox, Chas., Covington. Spanish seed leaf tobacco.
123. Duckwall, Batavia. White burley seed leaf tobacco.
125. Fley, Jacob, Georgetown. White burley seed leaf tobacco.
127. Hohn, Fred, Versailles. Ohio and Dutch seed leaf tobacco.
128. Hullser, Wm., Greenville. Ohio and Spanish seed leaf tobacco.
### PENNSYLVANIA.

#### GROUP 1.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Town</th>
<th>Crop(s)</th>
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<tr>
<td>1</td>
<td>Alten, J. S., McMinn.</td>
<td>Allegheny County Home</td>
<td>Wheat</td>
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<td>2a</td>
<td>Amer, G. A., Bath.</td>
<td>Woodville</td>
<td>Rye</td>
</tr>
<tr>
<td>3</td>
<td>Aten, H. A., Carnot.</td>
<td>West Milton</td>
<td>Wheat</td>
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<tr>
<td>4</td>
<td>Aten, J., Sabreski, McMinn.</td>
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<td>Oats</td>
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<td>5</td>
<td>Baker, Thomas, Octoraro.</td>
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<td>Wheat</td>
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<tr>
<td>6</td>
<td>Battin, B. F., Greenwood</td>
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<td>Buckwheat</td>
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<td>7</td>
<td>Bean, M. B., Dalton.</td>
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<td>Oats</td>
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<tr>
<td>8</td>
<td>Benninger, W. M., Walnutport</td>
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<td>Wheat</td>
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<tr>
<td>9</td>
<td>Bennison, S. H., Abdera.</td>
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<td>Wheat</td>
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<tr>
<td>10</td>
<td>Beyer, Simon, Ey'er's Grove.</td>
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<tr>
<td>12</td>
<td>Bird, Charles, Millview.</td>
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<td>Corn</td>
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</tbody>
</table>

#### GROUP 9.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Town</th>
<th>Crop(s)</th>
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</thead>
<tbody>
<tr>
<td>13</td>
<td>Bittenbender, D. Y., Alburtis.</td>
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<td>Blackburn, Wm. C., New Hope.</td>
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<td>15</td>
<td>Blair, J. H., Bath.</td>
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<tr>
<td>16</td>
<td>Bohn, Edward K., Robesonia.</td>
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<tr>
<td>17</td>
<td>Boose, A. J., Meyersdale.</td>
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<td>Wheat</td>
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<tr>
<td>18</td>
<td>Bottorf, P. F., Pine Grove Mills.</td>
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<tr>
<td>19</td>
<td>Branson, D. H., Atglen.</td>
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<td>20</td>
<td>Brewer, Clayton J., McConnellsburg.</td>
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<td>Wheat</td>
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<tr>
<td>21</td>
<td>Brown, J. M., Buttzown.</td>
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<td>Wheat</td>
</tr>
<tr>
<td>22</td>
<td>Bunting, J. M., Glen Mills.</td>
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<td>Corn</td>
</tr>
<tr>
<td>23</td>
<td>Burpee, W. A., Philadelphia.</td>
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<td>Corn</td>
</tr>
</tbody>
</table>
   a Corn.  2  
   b Rye.  5  
25. Cary, G. W., Locust Lane. Wheat.  1  
   Corn.  2  
27. Clark, Wm. H., Oakdale Station.  
   Wheat.  1  
28. Cloud, James, Oxford. Corn.  2  
29. Cloud, James, Russellville. Corn.  2  
31. Comage, George W., Lynn. Wheat.  1  
32. Conner, S. J., Berwick.  
   a Wheat.  1  
   b Oats.  3  
   c Rye.  5  
33. Conrad, Robert, Soleburg. Wheat.  1  
34. DeMatt, Cyrus, Millville. Corn.  2  
35. Derr, Jacob, Millville. Rye.  5  
36. Durst, George, Centre Hall. Wheat.  1  
37. Eckert, Wm., Robesonia. Corn.  2  
38. Engle & Son, H. M., Marietta. Corn.  2  
39. Evans, Francis, Brandywine. Wheat.  1  
40. Evans, Samuel, Swarthmore. Wheat.  1  
41. Everhart, John, Franklinville.  
   a Wheat.  1  
   b Oats.  3  
42. Everhart, John, Stormstown. Corn.  2  
43. Farsolo, David, Sunbury.  
   a Wheat.  1  
   b Oats.  3  
44. Fausett, David, Sunbury. Corn.  2  
45. Fausett, Henry, Dilworthtown.  
   a Wheat.  1  
   b Corn.  2  
46. Fause, B. B., Huntington. Wheat.  1  
47. Fink, Daniel F., Allentown.  
   a Wheat.  1  
   b Oats.  3  
   c Rye.  5  
49. Frain, Isaac S., Abdera. Oats.  3  
50. Fulleroff,Howard,Centre Hall. Corn.  2  
51. Garrett, Wm. S., Chadd's Ford. Corn.  2  
52. Gates, Luther & Son,Benore. Wheat.  1  
53. Gibson, John M., Blairsville.  
   a Wheat.  1  
   b Corn.  3  
   c Oats.  3  
54. Gibson, Michael, Mansfield. Oats.  3  
55. Glatt, John, Chadd's Ford. Corn.  3  
56. Gravelly, David, Upper Providence. Wheat.  1  
57. Greider, M. G., Mount Joy. Wheat.  2  
59. Grove, J. S., Tionesta. Corn.  2  
60. Habbersell, E., Mt. Alverno. Wheat.  1  
   a Wheat.  1  
   b Corn.  2  
   Corn.  2  
63. Harvey, Abram, Brandywine. Corn.  2  
64. Harvey, Ralph W., Ward. Wheat.  1  
65. Harvey, R. M., Ward. Corn.  2  
66. Heed, John C., West Chester. Corn.  2  
67. Heil, J. D., Brodhead. Barley.  4  
68. Heister,Gabriel,Harrisburg. Wheat.  1  
69. Hess, Jacob W., Oregon. Wheat.  1  
70. Heyburn, C. R., Camp Ground. Corn.  1  
71. Heyburn, M. S., Brandywine. Corn.  2  
72. Hoffman, Peter, Scalp Level.  
   a Wheat.  1  
   b Oats.  3  
73. Hoy, H. K., Bellefonte. Wheat.  1  
74. Huber, David B., Neffsville. Oats.  3  
75. Hunter, J. A., Stormstown. Corn.  2  
76. Hurley, Wm. W., New Hope. Wheat.  1  
77. Insho, W. W., Canoe Camp. Buckwheat.  7  
   a Corn.  2  
   b Oats.  3  
79. Kemmer, J. W., Nazareth. Wheat.  1  
   a Corn.  2  
   b Timothy seed.  8  
81. Kester, N., Mardensville. Corn.  2  
82. King, Geo. D., Chadd's Ford Junction.  
   Corn.  2  
83. Knapp, C. F., Falls. Oats.  3  
84. Kupp, H. S., Shiremanstown.  
   a Wheat.  1  
   b Oats.  3  
   c Rye.  5  
85. Lancaster, N. D., Chadd's Ford. Corn.  2  
86. Landis, Henry K., Lancaster. Wheat.  1  
87. Lanesburg, John, Canoe Camp. Corn.  2  
88. Lussey, S. C., Hollidaysburg. Corn.  2  
89. Madaro, Amos D., Robesonia. Oats.  3  
90. Martin, Wm. J., Catawissa. Wheat.  1  
91. Mother, H. E., Greenwood. Corn.  2  
92. McCue, B. B., Bath. Wheat.  1  
93. McClure, B. B., Bath. Corn.  2  
94. Mcgrant, J. G., Newry. Buckwheat.  3  
95. Mcgrant, J. S., Newry. Oats.  3  
96. Mcgrant, John Y., Newry. Wheat.  1  
97. McMan, J. J., Cheney. Corn.  2  
98. McNary, J. R., Burgetstown. Wheat.  1  
   a Wheat.  1  
   b Oats.  3  
100. Miller, Henry J., Catawissa.  
   a Wheat.  1  
   b Corn.  2  
   c Oats.  3  
   d Rye.  5  
   e Buckwheat.  7  
101. Miller, John, Brandywine. Wheat.  1  
102. Miller, John, Frankstown. Rye.  5  
103. Molyneux, J. S., Millview. Wheat.  1  
   a Corn.  2  
   b Oats.  3  
   c Rye.  5  
   d Timothy seed.  8  
105. Naginey, W. W., Milroy. Wheat.  1  
106. Nesbit, W. H., Milton. Corn.  2  
108. Nichols, John, Brandenville.  
   a Wheat.  1  
   b Corn.  2  
109. Patterson, W. C., Connellsv.  
   Timothy seed.  8  
110. Patterson, W. C., State College.  
   a Wheat.  1  
   b Oats.  3  
111. Piper, D. G., Locust Lane. Wheat.  1  
112. Pitts, John F., Mansfield. Wheat.  1  
113. Porter, Wm. A., Franklinville.  
   a Wheat.  1  
   b Corn.  2  
   c Oats.  3  
114. Ream, Henry, Neffsville. Rye.  5
DEPARTMENT A.—AGRICULTURE.

115. Reeder, E., New Hope.  
   a Corn.  2  
   b Oats.  3
116. Reese, Wm., Greenwood. Corn.  2
117. Robinson, Chas., Mercer. Corn.  2
118. Robinson, Wm.M., Mooresburg. Corn.  2
119. Robb, John D., Oakdale Station. Wheat.  1
120. Rothrock, David, Bellefonte. Wheat.  1
121. Sahm, Aaron, Neffsville. Oats.  3
122. School, W. L., West Newton.  
   a Wheat.  1  
   b Corn.  2
123. Schweitzer, R. T., Bethlehem. Oats.  3
124. Scott, Alexander, Concordville. 
125. Seat, Howard E., Chadd’s Ford Junction. Corn.  2
126. Shamapelt, Wm., Brinkertown. Corn.  2
127. Shannafelt, Wm., Brinkertown. Wheat.  1
128. Sherwood, G. K., Falls.  
   a Wheat.  1  
   b Oats.  3
129. Shivery, D. H., Bellefonte. Barley.  4
130. Smith, Casper, Farmer’s Valley. Corn.  2
131. Smith, Casper, Farmers Valley. Corn.  2
132. Smith, Joel, Glenburn. Oats.  3
133. Smith, S. W., Centre Hall. Oats.  3
134. Snowberger, J. B., McKee’s Gap. Corn.  2
135. Snyder, G. S., Middleburg.  
   a Wheat.  1  
   b Corn.  2
136. Thatcher, Howard, Brandywine.  
   a Wheat.  1  
   b Corn.  2
137. Tompsoon, E. A., Beech Cliff. Wheat.  1
138. Tussey, A., Hollidaysburg. Wheat.  1
139. U. S. Indian School, Carlisle.  
   a Wheat.  1  
   b Corn.  2  
   c Oats.  3
140. Walter, Reno, Mifflinburg. Wheat.  1
141. Warman, Thos., Bath.  
   a Corn.  2  
   b Buckwheat.  7
142. Weimer, Peter, Wittenberg. Buckwheat.  7
143. Wolfe, John, Rebersburg. Wheat.  1
144. Woodbridge, J. A., Dalton. Oats.  3
145. Young, A. P., Milville.  
   a Wheat.  1  
   b Corn.  2  
   c Oats.  3
146. Young, J. W., Romola. Oats.  3
147. Zeigler, John W., Rebersburg. Wheat.  1
   a Oats.  3  
   b Barley.  4

GROUP 9.

149. Woman’s Silk Culture Ass’n., Philadelphia. C-A-1  
   a Silk products representing silk culture in the U. S.  
   b Cocoons  
   c Silk flags and American-made reels. 61

SOUTH DAKOTA.

GROUP 1.

1. Abbott, Wm., Tyndall. Glass.  8
2. Ackles, W. B., Spearfish. Wheat.  1
3. Allen, Mrs. S., Elk Point. Corn.  2
4. Alexander, J. B., Watertown. Wheat.  1
5. Atten, C., Center. Wheat.  1
6. Avery, I., Brookings. Millet.  8
   a Wheat.  1  
   b Grasses.  8
   a Oats.  3  
   b Barley.  4
10. Balenger, C., Vermillion. Corn.  2
   a Wheat.  1  
   b Oats.  3
12. Ball, James G., Watertown. Oats.  3
   a Wheat.  1  
   b Oats.  3
14. Belding, D. K., Palatine. Grass.  8
   a Wheat.  1  
   b Corn.  2  
   c Oats.  3  
   d Grass.  8
16. Bergstresser, Fred, Wentworth. Grasses.  8
17. Bland, Arthur, Civil Bend. Corn.  2
18. Boek, O., Madison. Oats.  3
   a Wheat.  1  
   b Oats.  3
20. Bowman, Wm., Spearfish. Oats.  3
22. Briddenbaugh, C., Fire Steel. Wheat.  1
23. Briggs, Alfred, Watertown. Oats.  3
   a Corn.  2  
   b Rye.  5  
   c Grass.  8
25. Brown, Crawford, Kameska. Wheat.  1
27. Bruce, Charles, Yankeon. Wheat.  1
28. Bryant, C. H., Sioux Falls. Blue joint grass.  8
   a Wheat.  1  
   b Oats.  3
   a Wheat.  1  
   b Corn.  2  
   c Oats.  3
   a Wheat.  1  
   b Grass.  8
33. Carpenter, George, Watertown. Oats.  3
34. Carter, F., Elk Point. Corn.  2
35. Chaneese, A., Elk Point. Corn.  2
<table>
<thead>
<tr>
<th>No.</th>
<th>Name, C.</th>
<th>Location</th>
<th>Crop(s)</th>
</tr>
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<tbody>
<tr>
<td>36</td>
<td>Clark, C., Mitchell.</td>
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<td>Wheat</td>
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<td>37</td>
<td>Clark, F. H., Plankinton.</td>
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<td>Corn, Oats, Grass</td>
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<td>38</td>
<td>Coleman, C. M., Folsom. Corn.</td>
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<td>39</td>
<td>Colgan, Hugh, Tyndall. Grass.</td>
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<td>40</td>
<td>Conrad, Edward, Orland. Wheat.</td>
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<td>41</td>
<td>Cook, John, Stover. Grass.</td>
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<td>42</td>
<td>Cosand, Charles F., Hartford. Hungarian grasses.</td>
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<td>43</td>
<td>Cowles, E. D., Vermillion.</td>
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<tr>
<td>44</td>
<td>Crandall, Phineas, Loretta. Rye.</td>
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<td>45</td>
<td>Crow, L. T., Madison.</td>
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<td>46</td>
<td>Crum, John, Elk Point. Corn.</td>
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<td>47</td>
<td>Crum, F., Elk Point. Corn.</td>
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<td>49</td>
<td>Daurel, J. M., Fairburn. Wheat.</td>
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<tr>
<td>50</td>
<td>Davidson, Walter, Watertown. Wheat.</td>
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<td>51</td>
<td>Davie, Albert, Sioux Falls.</td>
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<td>52</td>
<td>Detrick, Charles, Spearfish. Alfalfa grass.</td>
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<td>53</td>
<td>Dixon, Joseph, Madison.</td>
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<tr>
<td>54</td>
<td>Dodge, Wm., Mitchell. Oats.</td>
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<tr>
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<td>Doly, H., White. Oats.</td>
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<td>56</td>
<td>Donevah, Michael, Loretta. Timothy grass.</td>
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<td>57</td>
<td>Eddy, James A., Long Creek.</td>
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<td>58</td>
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<td>59</td>
<td>Fancier, N. C., Fire Steel. Grass.</td>
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<tr>
<td>60</td>
<td>Fargo, S. C., Gayville. Corn.</td>
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<td>62</td>
<td>Flannery, John, Elk Point. Corn.</td>
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<td>63</td>
<td>Folger, A., Watertown. Grass.</td>
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<td>64</td>
<td>Foster, James, South Shore. Wheat.</td>
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<td>66</td>
<td>Fry, D., Belford. Wheat.</td>
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<td>Gale, Chas., White. Wheat.</td>
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<td>Geise, John, Watertown. Wheat.</td>
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<td>69</td>
<td>Gerber, Fred, Worthing.</td>
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<td>70</td>
<td>Green, H., Mitchell. Grasses.</td>
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<td>71</td>
<td>Greiner, Fred, Watertown. Oats.</td>
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<td>72</td>
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<td>Groves, J. A., Dexter.</td>
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<td>Oats, Buckwheat</td>
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<td>75</td>
<td>Haight, Jessie, Watertown.</td>
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<td>76</td>
<td>Hajen, I. W., Fairburn. Wheat.</td>
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<td>77</td>
<td>Hall, J. B., Mitchell.</td>
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<td>78</td>
<td>Hanson, C. P., Alexandria. Wheat.</td>
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<td>Harson, Amos, Elk Point. Corn.</td>
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<td>Hayward, D., Sioux Falls. Millet.</td>
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<td>Heming, H. P., South Shore. Wheat.</td>
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<td>Hernand, Theo., Hermosa. Wheat.</td>
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<td>94</td>
<td>Isard, Peter, Spearfish. Wheat.</td>
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<td>Wheat</td>
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<td>95</td>
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<td>Wheat</td>
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<tr>
<td>96</td>
<td>Jenkins, D. F., Yankton. Corn.</td>
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<td>98</td>
<td>Johnson, G. W., Madison. Grasses.</td>
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<td>100</td>
<td>Johnson, J., Tyndall. Timothy grass.</td>
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<tr>
<td>101</td>
<td>Johnston, P. G., South Shore. Wheat.</td>
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<td>102</td>
<td>Johnson, V., Spearfish. Corn.</td>
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<td>Walters, B. F.</td>
<td>Spearfish</td>
<td>Red-top</td>
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<td>Wheat</td>
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<tr>
<td>220</td>
<td>Wells, Fred.</td>
<td>Bon Homme</td>
<td>Oats</td>
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<tr>
<td>221</td>
<td>Wells, Joseph</td>
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<td></td>
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<tr>
<td>222</td>
<td>Welsh, L. S.</td>
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<td>Wheat</td>
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<td>223</td>
<td>West, Daniel</td>
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<td>Grasses</td>
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<td>224</td>
<td>Whiting, George</td>
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<td>Beans and pease</td>
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<td>225</td>
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<td>227</td>
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<td>230</td>
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<td>231</td>
<td>Kampshoff, Frank</td>
<td>Mitchell</td>
<td>Broom corn</td>
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<td>232</td>
<td>Pratt, J. S.</td>
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<td>Beans</td>
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**GROUP 5.**

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<td>229</td>
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<tr>
<td>234</td>
<td>Babcock, Ira &amp; Jay C.</td>
<td>Sioux Falls</td>
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<tr>
<td>235</td>
<td>Dixon, Joseph</td>
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<td>236</td>
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<td>Worthing</td>
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<td>Watertown</td>
<td>Flax</td>
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</table>
UTAH.

GROUP 1.

1. Agricultural College. Logan.  
   a Wheat.  1  
   b Corn.  2

2. Armstrong, T. C., Salt Lake City.  
   Wheat.  1

3. Barrett, George, Logan. Wheat.  1

4. Carlisle, John, Mill Creek. Oats.  3

5. Cazier, David, Nephi.  
   a Wheat.  1
   b Oats.  3

   a Wheat.  1

7. Ellis, Wm., Logan. Corn.  2

8. Handy, C. I., Salt Lake City.  
   Barley.  4

9. Hanson, F. H., Salt Lake City.  
   Wheat.  1

10. Hanson, T. H., Salt Lake City.  
    Barley.  4

11. Hugi, Christian, Logan. Corn.  2


    a Wheat.  1
    b Corn.  2

14. King, J., Logan. Corn.  2

15. Lemon, J. C., Ferron. Lucerne seed.  8

16. Mackay, John, Granger. Wheat in straw.  1

17. Manghan, C. W., Petersboro. Wheat in straw.  1

18. Middleton, C. F., Ogden. Wheat.  1

19. Moses, George, Taylorsville. Barley.  4

20. Oleson, T. F., Emery. Wheat.  1

21. Rayburn, Chas. W., Hyrum. Wheat.  1

22. Salisbury, Josiah, Wellsville. Barley.  4

23. Stalks, Morine, Lewiston. Wheat.  1

24. Titcomb, John, Mill Creek.  
    a Wheat.  1
    b Oats.  3

25. Woodfield, Wm., North Ogden.  
    a Wheat.  1
    b Barley.  4

GROUP 4.

26. Salisbury, Joshua, Millville. Onion and carrot seeds.  30

GROUP 5.


28. Carlisle, John, Logan. Beans and peas.  32

29. Lofthouse, James, Paradise. Peas.  32

VIRGINIA.

GROUP 1.

1. Apperson, Jno. S. Marion.  
   a Wheat.  1
   b Corn.  2

2. Bedford County.  
   a Wheat.  1
   b Oats.  3

3. Bransford, Mrs. Alice, Shirley. Hay.  8

4. Buckingham County.  
   a Wheat.  1
   b Corn.  2
   c Oats.  3

5. Drewry, A. H., Westover. Corn.  2

6. Hanover County. Corn.  2

7. Hurt, Jno. L., Hurt's Store. Wheat.  1

8. Madison County.  
   a Wheat.  1
   b Corn.  2
   c Oats.  3

    Hay.  8

10. Prince Edward County.  
    a Wheat.  1
    b Corn.  2

11. Princess Anne County. Corn.  10

12. Shenandoah County.  
    a Wheat.  1
    b Corn.  2
    c Oats.  3
    d Hay.  8

13. Tynes, G. A., Tazewell. Blue grass sod.  8

14. Smith, I. C. Petersburg. Peanuts.  31

GROUP 4.

15. Bedford County. Peas.  32

16. Princess Anne County. Vegetables.  32

GROUP 5.

17. Averett & Harvey, Danville. Tobacco.  48

18. Bedford County. Tobacco.  48


20. Cameron & Cameron, Richmond. Tobacco.  48

21. Cameron, Wm., & Bro. Tobacco.  48

22. Cosby, J. H., & Bro., Danville. Tobacco.  48

23. Dibbrell Bros., Danville. Tobacco.  48

24. Dixon & Co., Danville. Tobacco.  48

25. Duld, C. C., Danville. Tobacco.  48

26. Grandy & Miller, Danville. Tobacco.  48

27. Henderson, J. A., Danville. Tobacco.  48


29. Holcomb, J. D., Danville. Tobacco.  48


31. Jones, E. K., Danville. Tobacco.  48

32. Jordan, M. P., Danville. Tobacco.  48

33. Lee, Geo. A., Danville. Tobacco.  48

34. Madison County. Tobacco.  48
### WEST VIRGINIA.

**GROUP 1.**

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<tbody>
<tr>
<td>a</td>
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<tr>
<td>b</td>
<td>Corn.</td>
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<td>5.</td>
<td>Bane, John, Short Creek. Wheat.</td>
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**GROUP 9.**

| 42. | Wemple & Co., Danville. Tobacco. |

| 44. | Nielson, T. B., Wool. |
| 45. | Preston, John M., Seven Mile Ford. Wool. |

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**UNITED STATES.**

| 34. | Clipp, John W., Charlestown. Corn. |
| 43. | Cox, Jack West Liberty. Corn. |
| 49. | Crimm, J. T., Sandyville. Oats. |
| 56. | Dunlop, Jas., Union. Corn. |
| 58. | Dunn, Wm., Leon. Corn. |
| 60. | Ellis, Albert, Hurricane. Wheat. |
| 64. | Farrell, D. W., Ronesy Point. Corn. |
| 68. | Ferguson, Capt. S. J., Ferguson. Corn. |
DEPARTMENT A.—AGRICULTURE.

69. Ferrier, M. P., Lewisburg.  
   a. Wheat.  
   b. Oats.  
   1.  
   3.

70. Foard, D. A., Pliny.  
   a. Wheat.  
   b. Corn.  
   c. Oats.  
   1.  
   2.  
   3.

   1.  

   Wheat.  
   1.

73. Forney, C. C., Bethany.  
   a. Wheat.  
   b. Buckwheat.  
   1.  
   17.

74. Fraizer, J. W., Fraizer's Bottom.  
   Wheat.  
   1.

75. Fowler, Jas., McGill.  
   Corn.  
   1.

   Wheat.  
   1.

77. Garrett, W. B., Dickson.  
   Corn.  
   1.

78. Garrett, Wm. P., Dickson.  
   Oats.  
   1.

79. Gibson, W. B., West Alexander.  
   Wheat.  
   1.

   Oats.  
   1.

81. Gordon, A. W., Blennerhassett Island.  
   Corn.  
   2.

82. Gruber, Joseph, Martinsburg.  
   Corn.  
   1.

83. Gruse, Wm., West Liberty.  
   Oats.  
   3.

84. Guinn, A. B., Lowell.  
   Corn.  
   1.

85. Guinn Bros., Huntington.  
   Wheat.  
   1.

86. Hall, Thomas, Oldarker's Mill.  
   Wheat.  
   1.

87. Hanley, John, Mercer's Bottom.  
   Wheat.  
   1.

88. Hartley, Thomas, West Liberty.  
   a. Wheat.  
   b. Corn.  
   c. Oats.  
   1.  
   2.  
   3.

89. Harvey, R. T., Buffalo.  
   a. Wheat.  
   b. Corn.  
   c. Oats.  
   1.  
   2.  
   3.

90. Harwood, Jas., Potomac.  
   Wheat.  
   1.

   a. Wheat.  
   b. Oats.  
   2.  
   3.

   a. Wheat.  
   b. Corn.  
   1.  
   2.

93. Henshaw, E. S., Bunker Hill.  
   Wheat.  
   1.

   Wheat.  
   1.

95. High, Abel, Purgittsville.  
   Wheat.  
   1.

   a. Wheat.  
   b. Corn.  
   1.  
   2.

97. Hodge, J. S., Peckaway.  
   Wheat.  
   1.

98. Hogg, William, Short Creek.  
   Wheat.  
   1.

99. Holley, A. D., Hamlin.  
   Corn.  
   1.

100. Holly, Joel, Hamlin.  
    Wheat.  
    1.

    a. Corn.  
    b. Oats.  
    2.  
    3.

    Corn.  
    2.

103. Jacob, S. S., West Liberty.  
    a. Wheat.  
    b. Corn.  
    1.  
    2.

104. Jenkins, Jeff, Green Botom.  
    a. Wheat.  
    b. Corn.  
    c. Oats.  
    1.  
    2.  
    3.

105. Johnson, C. E., Union.  
    Corn.  
    2.

    a. Wheat.  
    b. Oats.  
    1.  
    3.

107. Keesucker, Jacob, Oakton.  
    Wheat.  
    1.

    Wheat.  
    1.

    a. Wheat.  
    b. Corn.  
    1.  
    2.

    Corn.  
    2.

111. Kyner, A. K., Martinsburg.  
    Oats.  
    3.

112. Landis, Joseph, Marlows.  
    Wheat.  
    1.

113. Leach, J. B., Sink's Grove.  
    Wheat.  
    1.

    Corn.  
    2.

    a. Wheat.  
    b. Corn.  
    1.  
    2.

    Wheat.  
    1.

    Corn.  
    2.

118. Lewis, W. G., Valley Grove.  
    a. Wheat.  
    b. Rye.  
    1.  
    5.

119. Light, J. H., Bedington.  
    Wheat.  
    1.

120. Lindington, J. C., Frankford.  
    Oats.  
    3.

121. Little, Robt., Parkersburg.  
    Corn.  
    2.

122. Lockwood, John, White's Creek.  
    Oats.  
    3.

123. Love, Peter, Love.  
    Wheat.  
    1.

124. Lowton, Arnold, West Liberty.  
    Oats.  
    3.

125. Ludington, C. I., Frankford.  
    Oats.  
    3.

126. Lupton, Edward, Martinsburg.  
    Corn.  
    2.

127. Lynch, C. E., Union.  
    Wheat.  
    1.

128. Lynch, G. T., Union.  
    Wheat.  
    1.

129. Madden, Robert, Hamlin.  
    Wheat.  
    1.

    a. Corn.  
    b. Oats.  
    2.  
    3.

131. Markham, Lee, Griffith.  
    Wheat.  
    1.

132. Mazwell Bros., Roney's Point.  
    a. Wheat.  
    b. Corn.  
    c. Oats.  
    1.  
    2.  
    3.

133. Mays, J. S., Frankford.  
    a. Wheat.  
    b. Corn.  
    1.  
    2.

    a. Wheat.  
    b. Corn.  
    1.  
    2.

    a. Wheat.  
    b. Oats.  
    1.  
    3.

    Corn.  
    2.

137. McCulloch, J. W., Clinton.  
    Wheat.  
    b. Oats.  
    1.  
    3.

    Wheat.  
    b. Corn.  
    1.  
    2.

139. McGuinn, J. B., South Side.  
    Wheat.  
    1.

140. McNeal, A. R., Old Fields.  
    Corn.  
    2.

141. McNeal, Geo., Academy.  
    a. Wheat.  
    b. Corn.  
    c. Oats.  
    1.  
    3.  
    2.
### UNITED STATES.

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<th>McNeal, Jas., Academy.</th>
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<td>a</td>
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<td>b</td>
<td>Corn.</td>
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<td>Oats.</td>
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<td>147.</td>
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<td>b</td>
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<td>c</td>
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<td>b</td>
<td>Corn.</td>
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<td>c</td>
<td>Buckwheat.</td>
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<td>c</td>
<td>Oats.</td>
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<td>Oats.</td>
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<td>b</td>
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<td>179.</td>
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<td>Corn.</td>
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<td>182.</td>
<td>Small, J. B., Martinsburg. a Wheat.</td>
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<td>183.</td>
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<td>b</td>
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<td>209.</td>
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<td>b</td>
<td>Oats.</td>
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<td>c</td>
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## WISCONSIN.

### GROUP 1.
1. Acker, Wm., Juneau. Wheat. 1
2. Agnewburg, Nels, Whitehall. Buckwheat. 7
3. Ahlers, N., Grafton. Wheat. 1
4. Albert, Henry W., Oconomowoc. Rye. 5
5. Allen, J. W., Ripon. Wheat. 1
6. Alves, F., Chilton. Wheat. 1
8. Anacker, Bernard, Portage. Wheat. 1
10. Anderson, Mat, Klevensville. Clover seed. 8
11. Andrews, John, Alma Centre. Wheat. 1
   a. Wheat. 1
   b. Oats. 3
   c. Barley. 4
13. Angell, C. E., Oshkosh. Timothy seed. 8
   a. Wheat. 1
   b. Barley. 4
15. Askewitz, Alex., Merrill. Rye. 5
16. Baatz, Fred, Plymouth. Corn. 2
17. Bacon, W. C., Bristol. Wheat. 1
   a. Wheat. 1
   b. Corn. 2
   a. Wheat. 1
   b. Rye. 5
20. Barkolz, Christ., Lake Mills. Corn. 2
22. Barnhart, A., Milton. Timothy seed. 8
23. Barton, Sylvester, Waupaca. Rye. 5
25. Baumfeind, Jacob, Granville Centre. Wheat. 1
26. Beach, John, Buena Vista. Rye. 5
27. Beals, O., Omro. 
   a. Corn. 2
   b. Rye. 5
28. Beaver, M. G., Sun Prairie. Buckwheat. 5
29. Behring, Hilman, Schlesingerville. 
   Clover seed. 9
30. Beine, Catherine, Schlesingerville. 
   Oats. 3
## UNITED STATES.

<table>
<thead>
<tr>
<th>Entry</th>
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<td>Plymouth</td>
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<td>Fond du Lac</td>
<td>Beoming, Geo.</td>
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<td>Oats</td>
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<td>Billings, C. G.</td>
<td>Clover seed</td>
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<td>Oats</td>
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<td>Blanding, Wm. M.</td>
<td>Corn</td>
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<td>42.</td>
<td>Manitowoc</td>
<td>Biesen, Adam, Jr.</td>
<td>Wheat</td>
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124. Farnham, E., Stephensville. Corn. 2
125. Fear, E. J., Augusta. Oats. 3
126. Fehrmann, Aug., Waterloo. a Wheat. 1
   b Barley. 4
   c Rye. 7
   d Buckwheat.
127. Fetting, Adolph, Buffalo City. Rye. 5
128. Fields, Wm., Prairie du Chien. Corn. 2
129. Fisher, Fred. C., Sheridan. Wheat. 1
130. Fitzsimmons, Samuel, Mineral Point. a Corn. 2
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131. Flemming, B. H., Shell Lake. Oats. 3
132. Flemming Bros., Wilmot. Barley. 4
133. Fletcher, Frank, Buena Vista. Corn. 2
134. Flucks, Joseph, Prairie du Chien. a Corn. 2
   b Buckwheat.
   c Clover seed.
135. Fountain, Thomas, Tibbetts. Corn and popcorn. 2
136. Fralich, Frank, Summer. Corn. 2
137. Freihuba, T., Okauches. Barley. 4
138. Fritz, C., White Creek. a Wheat. 1
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139. Fuller, Albert, Mauston. Corn. 2
140. Fussenschien, Gerhardt, Forestville. a Wheat. 1
   b Rye.
142. Ganske, A., Beaver Dam. Oats. 3
143. Gardner, W. F., Fulton. Pop corn. 2
144. Gates, John, Oakland. Timothy seed.
145. Gates, W., West Salem. Corn. 2
147. Getgen, N., Manitowoc. Millet seed. 8
148. Getz, Jos., Maplewood. Wheat. 9
149. Gilbertson, J. W., Irving. Wheat. 1
152. Gollneck, Ernest, Cedarburg. a Wheat. 1
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154. Grant, A. R., Stephensville. Corn. 2
155. Graser, Adam, Waukesha. Oats. 3
156. Green, L., Reedsport. Buckwheat. 7
157. Griffith, D. J., Dodgeville. Wheat. 1
158. Groth, Ferdinand, Cedarburg. Rye. 5
159. Grubb, C. H., Baraboo. a Wheat. 1
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160. Gurnee, B. M., Stephensville. Rye. 5
161. Haber, Jacob, Neenah. Wheat. 1
164. Hale, G. W., Jefferson. Corn. 2
166. Halbert, S. W., Augusta. Corn. 2
168. Hall, J. S., North Freedom. a Wheat. 1
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171. Hangrud, Alsak O., Rio. Corn. 2
172. Hankins, I., Blair. Oats. 3
173. Hans, John, Jefferson. a Wheat. 1
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174. Hanson, Martin, Blair. Wheat. 1
175. Hanson, Sievert, Westby. Timothy seed.
177. Hardacker, H., Hortonville. Oats. 3
178. Harden, C., Brodhead. Corn. 2
179. Harder, Jos., Caryville. Corn. 2
180. Harland, W., Duplainville. a Wheat. 1
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181. Harness, Geo., Neenah. Oats. 3
182. Harms, J. E., Springville. Corn. 2
183. Hass, Fred, Templetown. Corn. 2
184. Hass, Gottlieb, Mauston. Wheat. 1
185. Hatch, Fred L., Caryville. Corn. 2
186. Hauer, Chas., Mauston. Millet seed.
187. Haupert, Susanna, Neosho. Rye. 5
188. Hawthorne, W., Clarno. Corn. 2
189. Hayward, F. E., Hancock. a Corn. 2
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190. Heath, Oliver R., Amherst. Oats. 3
191. Heinke, Christ, Greenbush. Barley. 4
193. Hendhorn, Wm., Sylvan. Corn. 2
194. Hendricks, Val., Merrill. Oats. 3
196. Hennig, John, Princeton. Corn. 2
197. Henry, Geo. E., Jefferson. a Wheat. 1
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198. Herman, A., Cream. Oats. 3
199. Higgins, Wm., Jonesdale. Wheat. 1
201. Hinze, Herman, Oconto. Wheat. 1
203. Hoffman, M. L., Bassett. Oats. 3
204. Holden, Milton, Pepin. Wheat. 1
206. Home, Robert, Milton. Corn. 2
207. Horn, Matt, Jericho. Clover seed.
208. Hoyt, W. E., Rochester. Wheat. 1
209. Hoover, H. H., Stoughton. Corn. 2
210. Hooverson, John C., Soldiers' Grove. Corn. 2
211. Hopkins, James, Blair. Rye.
216. Jeffrey, H. T., Colgate. Barley. 4
217. Jeffrey, Wm., Colgate. Wheat. 1
218. Joch, Chas., Plymouth. Wheat. 1
219. John, F. W., Gillett. Oats. 3
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204. Leslie, John, Juneau. Wheat. 1
205. Lever, Wm., Mauston. Wheat. 1
206. Lewis, Bert, Greenville. Corn. 2
207. Lienan, John, Cooksville. Corn. 2
208. Lich Bros., Kansansville. Barley. 4
209. Link, F. A., Alma Centre. Barley. 4
211. Little, James, Janesville. Corn. 2
212. Lockhart, J. H., Maplewood. Clover seed. 9
213. Lock, Fred, Watertown. Wheat. 1
214. Loomis, J. C., Alma. Corn. 2
215. Madden, John, Mauston. Wheat. 1
216. Markham, Arthur A., Independence. Wheat. 1
217. Martin, John G., Mineral Point. Wheat. 1
218. Marsh, Frank, Jefferson. Wheat. 1
219. Martin, Wm., Gillingham. Corn. 2
220. Mather, H. M., Prairie du Sac. Timothy seed. 8
221. Mattes, Chas., Jefferson. Oats. 3
222. Maud, John, Arcadia. Timothy seed. 8
223. May, Reuben, Viroqua. Clover seed. 9
224. McClymonds, S., Barron. Oats. 3
225. McClintock, Wm. M., West Salem. Corn. 2
226. McCollum, Wm. M., Ripon. Timothy seed. 8
227. McCleary, Robert, Portage. Wheat. 1
228. McCreery, Chas., Burlington. Corn. 2
229. McEvoy, Will, Mauston. Wheat. 1
231. McIntyre, John, Mauston. Oats. 3
232. McCunn, B., Fort Atkinson. Corn. 2
233. McLean, John, St. Croix. Corn. 2
234. McLan, Joseph, Springville. Corn. 2
235. McLan, U. O., Viroqua. Corn. 2
236. McMillen, Ray, Douglas Centre. Corn. 2

UNITED STATES.
Timothy seed. 8
305. McNutt, A. W., Oxford. Corn. 7
306. McNutt, F. H., Oxford. Wheat. 1
Corn. 2
308. Meier, Matt, St. John. Clover seed. 9
309. Merran, Geo. B., Darlington. Wheat. 1
310. Merrill, A. W., Alma Centre. 
a Wheat. 1
b Corn. 2
311. Merrill, Frank S., Princeton. Corn. 2
312. Merriman, R. D., Fort Atkinson. 
Corn. 2
Wheat. 1
314. Meyer, George, Plymouth. Barley. 4
315. Millard, Lewis, Sparta. Corn. 2
316. Miller, Harry, Dotyville. Corn. 2
317. Miller, Henry, West Salem. Oats. 3
318. Miller, J., Melrose. Corn. 2
319. Miller, Mike, Jefferson. Wheat. 1
320. Mills, Gabe, Linden. Corn. 2
321. Minahan, John, Clinton. Wheat. 1
322. Moldenbauer, H., Lebanon. Wheat. 1
323. Morrison, William, Leed's Centre. 
Barley. 4
324. Morse, F. O., Sparta. Corn. 2
325. Muehl, Fred, Seymour. 
a Wheat. 1
b Rye. 5
326. Mullawaney, D., Mauston. Clover seed. 9
327. Nashold Bros., Rio. Corn. 2
328. Nattke, Fred, Portage. Corn. 2
329. Nelson, Paul, Peterson. Wheat. 1
330. Nelson, Peter, Waupaca. Wheat. 1
331. Newton, S. D. D., 
a Oats. 3
b Barley. 4
332. Nichols, George, Stoughton. Rye. 5
333. Nickel, Daniel, Waupaca. Corn. 2
334. Noble, B., Monroe. Wheat. 1
335. Noble, C., Sparta. Wheat. 1
336. Nordley, J. H., Prairie Farm. Wheat. 1
Corn. 2
338. Ode, Wm., Portage. Wheat. 1
339. Oestreich, F., Juneau. Barley. 4
340. Ogden, Marion E., Sylvan. Wheat. 1
341. Olds, O. P. H., Hudson. Wheat. 1
342. Olp, John, Springield. Buckwheat. 7
343. Olsen, Martin J., Viroqua. Wheat. 1
344. Orton, T. F., Lancaster. 
a Timothy seed. 8
b Clover seed. 9
Wheat. 1
a Corn. 2
b Oats. 3
349. Overson, Swain, Westby. Barley. 4
a Corn. 2
b Wheat. 1
351. Pagle, Henry, Horicon. 
a Wheat. 1
b Barley. 4
352. Palmer, J. C., Baraboo. Corn. 2
a Wheat. 1
b Corn. 2
354. Parcher, R. E., Wausau. 
a Wheat. 1
b Rye. 5
c Buckwheat. 7
d Timothy seed. 8
Wheat. 1
357. Paulsen, Herman, Graville. 
a Wheat. 1
b Corn. 2
358. Pease, Frank, Shell Lake. Grass. 8
359. Peat, Michael, Luxembourg. Peas. 32
360. Pells, J., Coloma Station. Rye. 5
361. Pelton, Geo., & Sons, Reedsburg. 
Corn. 2
362. Penny, J. R., Arcadia. Corn. 2
363. Peot, Nicholas, Luxembourg. Rye. 5
364. Perrot, Louis, Greenville. Corn. 2
365. Peschau, Henry, Sturgeon Bay. Timothy seed. 8
366. Peterson, Mads., Green Bay. Oats. 3
367. Peul, Chas., Cedarburg. 
a Oats. 3
b Barley. 4
368. Peul, John, Schleisingerville. Wheat. 1
369. Pfiehl, Christopher, Granville. Wheat. 1
370. Pike, H., Packwaukee. Clover seed. 9
371. Pinkerton, R. R., Waupaca. Wheat. 1
372. Place, Henry, Phestigo. Buckwheat. 7
373. Plinksk, Chas., Forestville. 
a Oats. 3
b Rye. 5
374. Pomeron, Orrin, Edgerton. Wheat. 1
375. Porter, J. W., Oakland. 
a Wheat. 1
b Buckwheat. 7
376. Preston, Geo., Ft. Atkinson. Wheat. 1
377. Price, Mrs. Julia, Black River Falls. 
a Corn. 2
b Oats. 3
378. Prosser, J. K., Antigo. Oats. 3
a Wheat. 1
b Barley. 4
380. Puhl, Frank, Dobber, Cedarburg. 
Timothy seed. 8
381. Quandt, Wm. C., Woodland. 
a Wheat. 1
b Barley. 4
382. Randall, C. F., Janesville. Bluegrass seed. 8
383. Rank, Geo., Schleisingerville. Oats. 3
384. Rasch, J. & C., Wilmot. Corn. 2
385. Ravold, George, Roberts. Corn. 2
386. Rauh, Geo., Schleisingerville. 
a Wheat. 1
b Barley. 4
387. Ray, W. C., Richland Centre. 
a Wheat. 1
b Oats. 3
388. Reeve, Howard, Ironton. Wheat. 1
389. Reynolds, Frank, Cedarburg. Wheat. 1
390. Reul, Andrew, Helenville. Corn. 2
391. Rhead, Turman R., Hixton. Wheat. 1
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<th>Page</th>
<th>Name</th>
<th>Seed</th>
<th>Variety</th>
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<td>438</td>
<td>Shaver, James Peshtigo</td>
<td>a</td>
<td>Wheat</td>
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<td>Sherburne, W.R., Rusk</td>
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<td>Shoff, J. M., Easton</td>
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<td>Sidney, Porch, River Falls</td>
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<td>Simen, Jacob, Calvary Station</td>
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<td>Sisson, Frank, Mindoro</td>
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<td>445</td>
<td>Skinner Bros., Merritt's Landing</td>
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<td>446</td>
<td>Slis, Anton, Forestville</td>
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<td>Oats</td>
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<td>447</td>
<td>Smith, Adam, Melrose</td>
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<td>Oats</td>
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<td>Smith, J. F., Mauston</td>
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<td>Snyder, Geo., Oconomowoc</td>
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<td>Spaulding, Ferris A., Oconomowoc</td>
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<td>Spaulding, Luther, River Falls</td>
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<td>Rye</td>
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<td>Speiker, John, Burlington</td>
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<td>Spenseley, D. H., Clinton</td>
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<td>Spenseley, James, Mineral Point</td>
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<td>Spring, M. E., Baraboo</td>
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<td>Corn</td>
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<td>Stackman, P. O., North Freedom</td>
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<td>Starandt, W. F., Burr Oak</td>
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<td>Steonitzky, Chas., Lynn</td>
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<td>Stephenson, Moses, Mineral Point</td>
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<td>Clover seed</td>
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<td>Stephens, Wm., Bristol</td>
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<td>Stevens, Geo., Jefferson</td>
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<td>Wheat</td>
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<td>Stevens, Hiram, Oshkosh</td>
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<td>465</td>
<td>Stiles, C. D., Lake Mills</td>
<td>c</td>
<td>Rye</td>
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<td>Stoll, W. W., Burlington</td>
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<td>Stowe, Geo., Ironton</td>
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<td>Straitman, A. B., West Salem</td>
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<td>Stumchenhorst, Antas, Gravesville</td>
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<td>Summers, J. W., Rochester</td>
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<td>Swallen, B., Hudson</td>
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<td>Swartz, Peter M., Waukesha</td>
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<td>Wheat</td>
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<td>Swatscheno, Wm., Neenah</td>
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<td>Wheat</td>
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<td>Taylor, J. W., Barrow</td>
<td>a</td>
<td>Corn</td>
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<td>Taylor, Wm., River Falls</td>
<td>b</td>
<td>Grass seed</td>
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<td>Taylor, W. R., Cottage Grove</td>
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<td>Teele, Aron, Baraboo</td>
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<td>Tepler, Robert, Neenah</td>
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<td>Oats</td>
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<td>Thayer, M. A., Sparta</td>
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<td>486</td>
<td>Thern, Frank, Antigo</td>
<td>b</td>
<td>Rye</td>
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</tbody>
</table>
DEPARTMENT A.—AGRICULTURE.

487. Thibendeau, Simon, Luxembourg.
    a Wheat.
    b Rye.
    c Millet seed.

488. Thomas, Frank, Sun Prairie. Oats. 3

489. Thomas, J. W., Chippewa Falls.
    a Wheat.
    b Corn.
    c Timothy seed.


492. Tipler, I., Allenville. Wheat. 1

493. Tipler, Robert, Neenah. Wheat. 1

494. Trumpy, Fred, Clarno.
    a Oats.
    b Buckwheat.

495. Truetl, John, Aurora. Wheat. 1


497. Udell, John, North Freedom. Corn. 2

498. Upman, Peter H., Soldiers’ Grove.
    a Wheat.
    b Corn.


500. Veults, J. B., De Pere. Wheat. 1

501. Verhalen, Peter J., Burlington. Corn. 2

502. Vickerman, Jackson, Milton.
    a Wheat.
    b Barley.
    c Timothy seed.

503. Vogel, August, North Greenfield.
    a Wheat.
    b Barley.

504. Wagner, Jacob, Oakland. Rye. 5

505. Wagner, Ludwitt, Lebanon. Wheat. 1

506. Wagner, Philip, West Bend. Oats. 3

507. Waisen, Joe, Oconto. Rye. 5

508. Waken T., Lancaster Millet seed.

509. Walker, Moses, Berlin. Wheat. 1

510. Walke, W. V., Lancaster. Corn. 2


512. Walrath, H., White Creek.
    a Buckwheat.
    b Timothy seed.


514. Walter, Michael, Amherst. Millet seed.

515. Walther, John N., Helenville. Wheat. 1

516. Warren, Gilbert, Rio. Timothy seed. 8

517. Wason Robert, Wattsville. Corn. 2

518. Ward, C. E., Fort Atkinson. Corn. 2

519. Ward, George, Bridgeport. Wheat. 1

520. Weaver, Frank, Dartford. Buckwheat.


    a Wheat.
    b Corn.

524. Weisensel, Caspar, Sun Prairie. Corn. 2

525. Weisler, Geo., Ortonville. Corn. 2

526. Welch, P. J., Mauston. Clover seed. 9

527. Welcom, W. H., Hancock. Corn. 2


529. Wells, Caleb, Milton. Wheat. 1


531. West, H. P., Fayetteville.
    a Wheat.
    b Oats.
    c Barley.
    d Millet and red-top seed.

    a Corn.
    b Buckwheat.

533. Weston, Chas. S., Edmund. Wheat. 1

534. West, Mark, Fayetteville.
    a Wheat.
    b Oats.
    c Barley.


537. White, S. T., Beaver Dam. Wheat. 1

538. Whitmond, W. H., Centralia. Corn. 2

539. Whittaker, Thos. F., Oconomowoc.
    a Wheat.
    b Oats.


541. Wiepking, Henry D., Cedarburg.
    a Wheat.
    b Corn.
    c Barley.
    d Rye.


543. Willis, Z. C., Cook’s Valley. Buckwheat.

544. Wilson, Eliza T., Amy. Wheat. 1


546. Wilson, William C., Burlington.
    a Popcorn.
    b Timothy seed.

547. Wittkopp, Carl, Plymouth.
    a Wheat.
    b Barley.


549. Winters, John J., Sparta. Corn. 2

550. Winters, John, Sparta. Wheat. 1

551. Wishart, Thos., De Pere.
    a Wheat.
    b Oats.

552. Woodruff, H. S., Janesville. Orchard grass.

553. Woolenberg, Anna, Chilton. Clover seed.


555. Young, A. W., Chippewa Falls.
    a Corn.

GROUP 3.


558. Gross, Gustav, Milford. Honey. 26


560. Keyes, J. W., Chippewa Falls.

561. Lotz, August, Cadott. Honey. 26


563. McNay, Mr., Durand. Honey. 26

564. Nison, J. W., Sinsinawa. Honey. 26


568. Putnam, W. H., River Falls. Honey. 26
569. Wilcox, Arthur, Chippewa Falls. Honey and beeswax. 23
570. Wilcox, F., Mauston. Honey and beeswax. 26
571. Vandereicke, Adolph, Lake Mills. Honey. 26

GROUP 5.

572. Adams, John, Kewaunee. Lentils. 32
573. Allen, Ethan, North Freedom. Beans. 32
574. Coes, F., Chilton. Peas. 32
575. Anacker, Bernard, Portage. Beans. 32
577. Anderson, Gunder, Taylor. Beans. 32
578. Arnold, Freeman, Hanover. Peas. 32
579. Bailey, Aaron, Princeton. Beans. 32
580. Bailey, W. J., Lancaster. Peas. 32
581. Barkhausen, Aug., Thiensville. Peas. 32

582. Beals, O., Omro. Beans. 32
583. Beilke, F. W., Wausau. Peas. 32
586. Berz, Peter, Kewaunee. Lentils. 32
587. Black, John, Chilton. Lentils. 32
588. Boyden, E., Mills Centre. Peas. 32
589. Buch, Gottlieb, Cedarburg. Flax seed. 32
590. Buswell, S. M., Amherst. Peas. 32
591. Chittenden & Morse, Princeton. Beans and peas. 32
592. Cleland, Samuel, Footville. Beans. 32
593. Currier, A. W., River Falls. Beans. 32
594. Darrow, Nathaniel, Reedsburg. Beans. 32
595. Davis, P. M., Waupaca. Beans. 32
596. Davis, Thos., Oshkosh. Beans. 32
597. Day, Mr., Portage. Beans. 32
599. Dixon, Joshua, Kansasville. Peas. 32
600. Dodds, W. J., Brookside. Peas. 32
601. Dollyjack, J., Portage. Peas. 32
602. Duencen, Carl, Chippewa Falls. Peas. 32
603. Eberhart, August, Manitowoc. Peas. 32
604. Eberhardt, E., Manitowoc. a Beans. 32
   b Peas. 32
605. Edwards, Henry, Grand Rapids. Beans. 32
606. Enderby, Wm. R., Green Bay. Beans. 32
607. Foster, L. J., Mauston. Beans. 32
608. Frakle, Wm., Kewaunee. Peas. 32
609. Garner, A. C., Chippewa Falls. Beans. 32
610. Graf, Henry, Granville. Peas. 32
611. Graf, John, Kewaunee. Peas. 32
612. Grant Bros., Hudson. Beans and peas. 32
613. Grant Bros., Hudson. Peas. 32
614. Grape, John, Waukesha. Beans and peas. 32
615. Greenlee, I. C., Sparta. Beans. 32
616. Haberjee, Joseph, Sevastopol. Beans. 32
617. Halpin, Thomas, Cedarburg. Flax seed. 32
618. Hall, M., Chippewa Falls. Beans. 32
619. Hamm, Frank, Centralia. Peas. 32
620. Hamm, Henry, Centralia. Beans. 32
621. Harland, W., Duplainville. Beans. 32
622. Haus, John, Jefferson. Beans. 32
623. Hemke, H., Sawyer. Lentils. 32
624. Hepchner, Nicholas M., Chilton. Beans. 32
625. Holmes, Edward, Shopiere. Peas. 32
626. Huebner, W. J., Manitowoc. Peas. 32
627. Huelpe, Fred, Brown Deer. Beans. 32
628. Jackson, Robt., Oconto. Peas. 32
629. Kelly, P., River Falls. Beans. 32
630. Keogh, Edward, Forestville. Peas. 32
631. Konkle, Barney, Richland Centre. Beans. 32
632. Konop, Andrew, Stangelville. Beans. 32
633. Krena, Wencle, Luxembourg. Peas. 32
634. Langemach, P., J., New Holstein. Peas. 32
635. Lawson, Louis, Mineral Point. Beans. 32
636. Lee, Alfus, Plymouth. Beans. 32
637. Lippett, L., Baraboo. Beans. 32
638. Little, James, Janesville. Beans. 32
639. Loomis, J. C., Alma. Beans. 32
640. Maratich, Joseph, Kewaunee. Peas. 32
641. Martin, Alfred, Rochelle. Beans. 32
642. Modlie, W., Clay Banks. Lentils. 32
643. Mulroy, Patrick, Hortonville. Peas and beans. 32
646. Norton, Henry W., McMillan. Beans. 32
647. Norton, Henry W., River Falls. Beans. 32
648. Nuernberger, Carl, Sheboygan. Peas. 32
649. Owens, O. J., Portage. Beans. 32
650. Owens, W. W., Portage. Beans. 32
651. Parchman, R. E., Wausau. Peas. 32
652. Pansie, H., Princeton. Beans. 32
653. Pasef, Henry, Ableman. Peas. 32
654. Peister, John, Fayette. Beans. 32
655. Pepper, Robert, Peshigo. Beans. 32
656. Perry, Matthew, Forestville. Lentils. 32
657. Peter, Julius, North Greenfield. Beans. 32
658. Peterson, E. G., Stockholm. Beans. 32
659. Prestine, Aug., Peshtigo. Peas. 32
660. Prill, A., Waupaca. Peas. 32
661. Ransomb, Everett, Janesville. Peas. 32
662. Raunnemann, George, Portage. Beans. 32
663. Reamer, Wm., Mineral Point. Beans. 32
664. Reed, H. R., Plymouth. Beans. 32
665. Reed, L. H., Janesville. Peas. 32
666. Reynolds, E. G., Mineral Point. Peas and beans. 32
667. Rhoda, F., Mauston. Peas. 32
668. Rhodes, Louie, Kansasville. Beans. 32
669. Robertson, Robert, Oakfield. Beans. 32
670. Rottstadt, E., Plymouth. Peas. 32
671. Schemming, F. H., Silver Lake. Beans. 32
672. Schnelling, W. F., Cataract. Peas. 32
673. Schible, Peter, Sturgeon. Beans. 32
674. Schofield, Wm., Hancock. Beans. 32
675. Selc, A., Mequon. Vetches. 32
676. Skinner, John, Merritt's Landing. Beans. 32
677. Smith, Albert, Eau Claire. Beans. 32
678. Snith, Frank, Soloma. Beans. 32
679. Sommburg, Charles, North Bend. Beans. 32
680. Stone, Moses, Marcellon. Beans. 32
681. Stratton, E. B., Burlington. Beans. 32
682. Straubel & Ebeling, Green Bay.  Beans.  32
683. Tall, Sam, Janesville.  Beans.  32
684. Tenwke, Mr., Brodhead.  Beans.  32
685. Thibendean, Simon, Luxembourg.  Peas and lentils.  32
686. Thiel, Ferdinand, Monominee.  Beans.  32
687. Thomas, Morris, River Falls.  Beans.  32
688. Tipler, Robert, Neenah.  Peas.  32
689. Troll, Wm., Mineral Point.  Peas.  32
690. Utnackmer, Carl, Antigo.  Peas.  32
691. Vadder, Mrs. L., Manitowoc.  Beans and peas.  32
692. Van Sluce, C., Greenbush.  Beans.  32
693. Veltum, George, Juneau.  Beans.  32
694. Walker, Frank, Waupaca.  Beans.  32
695. Wason, Robert, Wattsville.  Beans.  32
696. Weaver, John, Garden.  Peas.  32
697. West, H. P., Fayetteville.  Beans and peas.  32
698. White, S. T., Beaver Dam.  Beans.  32
699. Wilbur, Albert, Oconomowoc.  Beans.  32
700. Wilmot, Silas, Ryan.  Beans.  32
701. Wilson, F. M., White Creek.  Beans.  32
702. Windhausen, Math., Manitowoc.  Peas.  32
703. Winkel, Nicholas, Grand Rapids.  Beans.  32
704. Zerbel, Aug., Forestville.  Peas.  32

GROUP S. SE. I-C-7

705. Allness, Ole, Liberty Pole.  Havana seed leaf tobacco.  48
706. Anderson, John, Edgerton.  Havana seed leaf tobacco.  48
707. Anderson, Martin, Dunn.  Havana seed leaf tobacco.  48
708. Anderson, Nels, Westley.  Havana seed leaf tobacco.  48
710. Anderson, S., Edgerton.  Havana seed leaf tobacco.  48
711. Asleson, Tom, Edgerton.  Havana seed leaf tobacco.  48
712. Ayer, A., Windsor.  Havana seed leaf tobacco.  48
713. Baxter, James, Windsor.  Havana seed leaf tobacco.  48
714. Bedley, Hans, Bristol.  Havana seed leaf tobacco.  48
715. Bergh, Lorger, Liberty Pole.  Havana seed leaf tobacco.  48
716. Birthness, H. T., & Bro., Orfordville.  Havana seed leaf tobacco.  48
717. Bjoin, E., Utica.  Havana seed leaf tobacco.  48
718. Blanchard, H. D., Madison.  Havana seed leaf tobacco.  48
719. Booras, Peter, Westley.  Havana seed leaf tobacco.  48
720. Bosbon, Andrew, Stoughton.  Havana seed leaf tobacco.  48
721. Brage, Ole, Liberty Pole.  Havana seed leaf tobacco.  48
722. Bringe, Peter, Liberty Pole.  Havana seed leaf tobacco.  48
723. Brown, Geo., York.  Havana seed leaf tobacco.  48
724. Brown, James, Stoughton.  Havana seed leaf tobacco.  48
725. Bulstad, B., Madison.  Havana seed leaf tobacco.  48
726. Bruette, N., Jefferson.  Havana seed leaf tobacco.  48
727. Brye, Lais, Viroqua.  Havana seed leaf tobacco.  48
728. Call, Thos., Viroqua.  Havana seed leaf tobacco.  48
729. Carlson, Ole, Burke.  Havana seed leaf tobacco.  48
730. Cavankaugh, J., Lodi.  Havana seed leaf tobacco.  48
731. Chase, W., Bristol.  Havana seed leaf tobacco.  48
732. Christianson, John, Cambridge.  Havana seed leaf tobacco.  48
733. Christianson, O., Cambridge.  Havana seed leaf tobacco.  48
734. Cleophas, Gus., Beloit.  Havana seed leaf tobacco.  48
735. Collie, Geo., Brooklyn.  Havana seed leaf tobacco.  48
736. Connor, W. O., Liberty Pole.  Havana seed leaf tobacco.  48
737. Cory, W. H., Edgerton.  Havana seed leaf tobacco.  48
738. Craw, Wm., Center.  Havana seed leaf tobacco.  48
739. Criddle, H., Dunn.  Havana seed leaf tobacco.  48
740. Cump, Louis, Edgerton.  Havana seed leaf tobacco.  48
741. Davis, M. G., Viroqua.  Havana seed leaf tobacco.  48
742. Decker, J. A., Janesville.  Havana seed leaf tobacco.  48
743. Doty, J. Burke.  Havana seed leaf tobacco.  48
744. Douglas, H., Bristol.  Havana seed leaf tobacco.  48
745. Dregne, John, Liberty Pole.  Havana seed leaf tobacco.  48
746. Duggan, Thos., Edgerton.  Havana seed leaf tobacco.  48
747. Eagan, J. E., Edgerton.  Havana seed leaf tobacco.  48
748. Eckhardt, Fred, Viroqua.  Havana seed leaf tobacco.  48
749. Edwardus, John, Viroqua.  Havana seed leaf tobacco.  48
750. Elefson, C., Liberty Pole.  Havana seed leaf tobacco.  48
751. Erdall, C., Lancaster.  Havana seed leaf tobacco.  48
752. Erickson, Andrew, Cambridge.  Havana seed leaf tobacco.  48
753. Everingham, Geo., Janesville.  Havana seed leaf tobacco.  48
754. Favor, Jerome, Springville.  Havana seed leaf tobacco.  48
755. Farness, O., York.  Havana seed leaf tobacco.  48
756. Fartney, D. T., Viroqua.  Havana seed leaf tobacco.  48
757. Finley, Lars, Cambridge.  Havana seed leaf tobacco.  48
758. Fischer, A. L., Center.  Havana seed leaf tobacco.  48
759. Flandhammer, Andrew, Viroqua.  Havana seed leaf tobacco.  48
760. Flathme, Thos., Avalanche. Havana seed leaf tobacco. 48
761. Fouran, H., Utica. Havana seed leaf tobacco. 48
762. Froeland, Ben., Avalanche. Havana seed leaf tobacco. 48
763. Gardner, O. P., Orfordville. Havana seed leaf tobacco. 48
764. Green, John, Madison. Havana seed leaf tobacco. 48
765. Good, F., Burke. Havana seed leaf tobacco. 48
766. Goff, Geo., Dunkirk. Havana seed leaf tobacco. 48
767. Gruezdmeule, George, Madison. Havana seed leaf tobacco. 48
768. Gulbrunson, O., Stoughton. Havana seed leaf tobacco. 48
769. Gundor, Louis, Lodi. Havana seed leaf tobacco. 48
770. Hall, Anamas, Viroqua. Havana seed leaf tobacco. 48
771. Halverson, K., Madison. Havana seed leaf tobacco. 48
772. Hanzen, Nels, Rutland. Havana seed leaf tobacco. 48
773. Hanson, Hans, Cottage Grove. Havana seed leaf tobacco. 48
774. Harvey, Mas, Pleasant Springs. Havana seed leaf tobacco. 48
775. Hanson, Hans, Dunkirk. Havana seed leaf tobacco. 48
776. Hanson, John, Edgerton. Havana seed leaf tobacco. 48
777. Hanson, Ole, Westley. Havana seed leaf tobacco. 48
778. Hanson, Peter, Sun Prairie. Havana seed leaf tobacco. 48
779. Hatten, Geo., Rutland. Havana seed leaf tobacco. 48
780. Heltand, E. T., Westley. Havana seed leaf tobacco. 48
781. Hendrickson, John, Liberty Pole. Havana seed leaf tobacco. 48
782. Henry, M., Viroqua. Havana seed leaf tobacco. 48
783. Homey, K., Pleasant Springs. Havana seed leaf tobacco. 48
784. Homstad, Elias, Westley. Havana seed leaf tobacco. 48
785. Holman, Peter, Avalanche. Havana seed leaf tobacco. 48
786. Honeysett, Thos., Edgerton. Havana seed leaf tobacco. 48
787. Hauge, J., Bristol. Havana seed leaf tobacco. 48
788. Haugen, Erick N., Orfordville. Havana seed leaf tobacco. 48
789. Haugen, H. S., Stoughton. Havana seed leaf tobacco. 48
790. Haugensen, John, Westley. Havana seed leaf tobacco. 48
791. Jacobson, Ole, Burke. Havana seed leaf tobacco. 48
792. Jellum, S., Christiana. Havana seed leaf tobacco. 48
793. Jemerson, Ole, Dunn. Havana seed leaf tobacco. 48
794. Jensen, Andrew, Edgerton. Havana seed leaf tobacco. 48
795. Jensen, Erick, Lodi. Havana seed leaf tobacco. 48
796. Jenson, J. O., Brooklyn. Havana seed leaf tobacco. 48
797. Johnson, B. M., Orfordville. Havana seed leaf tobacco. 48
798. Johnson, E., Windsor. Havana seed leaf tobacco. 48
799. Johnson, E. J., Dunn. Havana seed leaf tobacco. 48
800. Johnson, Evling, Cambridge. Havana seed leaf tobacco. 48
801. Johnson, Halver, Avalanche. Havana seed leaf tobacco. 48
802. Johnson, Hans, Dunkirk. Havana seed leaf tobacco. 48
803. Johnson, H., Pleasant Springs. Havana seed leaf tobacco. 48
804. Johnson, I., Westley. Havana seed leaf tobacco. 48
805. Johnson, Jens, Lodi. Havana seed leaf tobacco. 48
806. Johnson, Ole, Rutland. Havana seed leaf tobacco. 48
807. Johnson, Ole, Westley. Havana seed leaf tobacco. 48
808. Jottl, T., Pleasant Springs. Havana seed leaf tobacco. 48
809. Karrow, E., Windsor. Havana seed leaf tobacco. 48
810. Kastend, Ole, Westley. Havana seed leaf tobacco. 48
811. Kier, S. M., Liberty Pole. Havana seed leaf tobacco. 48
812. Kleinschmidt, John, Ft. Atkinson. Havana seed leaf tobacco. 48
813. Klongelidn, O., Stoughton. Havana seed leaf tobacco. 48
814. Knudson, C., Cambridge. Havana seed leaf tobacco. 48
815. Knudson, Ole, Leeds. Havana seed leaf tobacco. 48
816. Knudson, Ole O., Orfordville. Havana seed leaf tobacco. 48
817. Knudson, Sever, Blooming Grove. Havana seed leaf tobacco. 48
818. Krause, Carl, Stockbridge. Caraway seed. 47
819. Kravick, Lars, Edgerton. Havana seed leaf tobacco. 48
820. Larson, Sever, Viroqua. Havana seed leaf tobacco. 48
821. Lawrence, Tim, Stoughton. Havana seed leaf tobacco. 48
822. Lenaas, Mrs. O., Utica. Havana seed leaf tobacco. 48
823. Lindermuth, Matt., Chilton. Caraway seed. 47
824. Lisbon, Ston, Orfordville. Havana seed leaf tobacco. 48
825. Lointon, J. B., Edgerton. Havana seed leaf tobacco. 48
826. Loomis, S. L., Edgerton. Havana seed leaf tobacco. 48
827. Loper, C., York. Havana seed leaf tobacco. 48
828. Loudon, F. W., Janesville. Havana seed leaf tobacco. 48
829. Loudon, Jas. M., Janesville. Havana seed leaf tobacco. 48
830. Lorger, Ole, Liberty Pole. Havanaseed leaf tobacco. 48
831. Lovend, K. K., Viroqua. Havana seed leaf tobacco. 48
832. MacKend, Simon, Westley. Havana seed leaf tobacco. 48
833. Marks, John, Edgerton. Havana seed leaf tobacco. 48
834. Mathieu, P., Edgerton. Havana seed leaf tobacco. 48
835. McGinnis, John, Dunkirk. Havana seed leaf tobacco. 48
836. Meissner, F. A., Cashton. Caraway seed. 47
837. Meland, T. O., Lodi. Havana seed leaf tobacco. 48
838. Mitchell, G., Bristol. Havana seed leaf tobacco. 48
839. Mitchell, J., Burke. Havana seed leaf tobacco. 48
840. Moen Bros., Stoughton. Havana seed leaf tobacco. 48
841. Moen, G. G., Edgerton. Havana seed leaf tobacco. 48
842. Mole, Jas. R., Janesville. Havana seed leaf tobacco. 48
843. Morrison, E. C., Edgerton. Havana seed leaf tobacco. 48
844. Nelson, Anton, Avalanche. Havana seed leaf tobacco. 48
845. Nelson, Cornelius, Edgerton. Havana seed leaf tobacco. 48
847. Nelson, Wm., Boscolbel. Havana seed leaf tobacco. 48
848. Neprud, Elias, Westley. Havana seed leaf tobacco. 48
849. Neprud, S. W., Westley. Havana seed leaf tobacco. 48
850. Nettum, A., Albion. Havana seed leaf tobacco. 48
851. Norden, Nels., Mt. Horeb. Havana seed leaf tobacco. 48
852. Noyes, W. H., Janesville. Havana seed leaf tobacco. 48
853. Oberson, Swain, Westley. Havana seed leaf tobacco. 48
854. Olson, Brown, Westley. Havana seed leaf tobacco. 48
855. Olson, Henry, Vienna. Havana seed leaf tobacco. 48
856. Olson, Jens, Hampden. Havana seed leaf tobacco. 48
857. Olson, John, Dunn. Havana seed leaf tobacco. 48
858. Olson, T., Windsor. Havana seed leaf tobacco. 48
859. Overstrud, O. E., Spring Valley. Havana seed leaf tobacco. 48
860. Parker, Frank, Janesville. Havana seed leaf tobacco. 48
861. Pearson, John, Edgerton. Havana seed leaf tobacco. 48
862. Pederson, P., Hanover. Havana seed leaf tobacco. 48
863. Peterson, C., Liberty Pole. Havana seed leaf tobacco. 48
864. Peterson, Elias, Westley. Havana seed leaf tobacco. 48
865. Potter, W. K., Cambridge. Havana seed leaf tobacco. 48
866. Powell, E., Viroqua. Havana seed leaf tobacco. 48
867. Preus, N., Viroqua. Havana seed leaf tobacco. 48
868. Quamen, O., Edgerton. Havana seed leaf tobacco. 48
869. Risum, C. L., Orfordville. Havana seed leaf tobacco. 48
870. Robinson, , Stoughton. Havana seed leaf tobacco. 48
872. Routlin, K., Stoughton. Havana seed leaf tobacco. 48
873. Rumley, Henry, Springfield. Havana seed leaf tobacco. 48
874. Rusta, Peter, Stoughton. Havana seed leaf tobacco. 48
875. Sanders, Ole, Albion. Havana seed leaf tobacco. 48
876. Sander, Wm., Morrisonville. Havana seed leaf tobacco. 48
877. Sangstad, Theodore. Havana seed leaf tobacco. 48
878. Schrode, F., Stoughton. Havana seed leaf tobacco. 48
879. Severson, Jens, Burke. Havana seed leaf tobacco. 48
880. Sherman, E., Madison. Havana seed leaf tobacco. 48
881. Simonson, Ole, Pleasant Springs. Havana seed leaf tobacco. 48
882. Smithack, Ole, Christiana. Havana seed leaf tobacco. 48
883. Smith, Anamas, Viroqua. Havana seed leaf tobacco. 48
884. Smith, Jac., Madison. Havana seed leaf tobacco. 48
885. Snyder, J. T., Center. Havana seed leaf tobacco. 48
886. Solverson, Peter, Liberty Pole. Havana seed leaf tobacco. 48
887. Sorensen, Knud, Medina. Havana seed leaf tobacco. 48
888. Soverhill & Porter, Janesville. Havana seed leaf tobacco. 48
889. Starks, Ole, Stoughton. Havana seed leaf tobacco. 48
890. Stevenson, A., Cambridge. Havana seed leaf tobacco. 48
891. Strundbreg, Nels, Westley. Havana seed leaf tobacco. 48
892. Svenson, Even, Cambridge. Havana seed leaf tobacco. 48
893. Swenson, Peter, Rio. Havana seed leaf tobacco. 48
894. Swiggum, Thos., Westley. Havana seed leaf tobacco. 48
895. Swinson, Thos., Viroqua. Havana seed leaf tobacco. 48
896. Temple, A. H., Edgerton. Havana seed leaf tobacco. 48
897. Thompson, John, Westpart. Havana seed leaf tobacco. 48
898. Thomas, K. B., Orfordville. Havana seed leaf tobacco. 48
899. Thorsquard, L., Springfield. Havana seed leaf tobacco. 48
900. Thorstonson, Helick, Christiana. Havana seed leaf tobacco. 48
901. Tisbery, K. B., Deerfield. Havana seed leaf tobacco. 48
902. Texley, A., Cambridge. Havana seed leaf tobacco. 48
903. Texley, H., Christiana. Havana seed leaf tobacco. 48
## UNITED STATES

### GROUP 9.

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<td>Brenger, Jacob, Clyman</td>
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<td>Cunningham, D. N., Burlington</td>
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<td>English Shire &amp; Hackney Horse Co., Neillsville</td>
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<td>Fox, A.O., Oregon</td>
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<td>Gaines, J.W., Lowell</td>
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<td>Harding, George &amp; Sons, Waukesha</td>
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<td>Kull, Andrew, Geneva Lake</td>
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<td>McKerrow, George, Sussex</td>
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<td>Payne, J.C., Prairie du Sac</td>
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<td>Phelps, C.K., Springfield</td>
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<td>Pitcher, J.H., Eagle</td>
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<td>Price, Hugh H., Black River Falls</td>
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### GROUP 10.

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<td>Wack, Jacob, Liberty Pole</td>
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<td>Wagen, Y., Westley</td>
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<td>Williams, W. C., Liberty Pole</td>
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## WYOMING

### GROUP 1.

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<tr>
<td>b Corn</td>
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<tr>
<td>c Oats</td>
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<tr>
<td>Dickinson, Leroy</td>
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<tr>
<td>Gordon, John H., South Bend</td>
<td>Wheat</td>
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<tr>
<td>a Wheat</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>b Corn</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>c Oats</td>
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</tr>
<tr>
<td>d Rye</td>
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<td>e Buckwheat</td>
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<td>f Alfalfa</td>
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<td>g Millet and other grasses</td>
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<td>h Clover, alfalfa</td>
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<td>b Oats</td>
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<tr>
<td>c Rye</td>
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<td>4</td>
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<td>d Buckwheat</td>
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<td>e Alfalfa</td>
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<td>Lee, William, Saratoga</td>
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<td>b Corn</td>
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<tr>
<td>McCormick, John, Sheridan</td>
<td>Wheat</td>
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<tr>
<td>Sonneberger, M. A., Buffalo</td>
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<td>b Oats</td>
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<tr>
<td>c Rye</td>
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DEPARTMENT A.—AGRICULTURE.

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<td>11.</td>
<td>State Experimental Farm, Saratoga.</td>
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<td>GROUP 4.</td>
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<td>a Wheat.</td>
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<td>Enturolhn, Gustav. Potatoes.</td>
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<td>b Oats.</td>
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<tr>
<td></td>
<td>c Barley.</td>
<td>4</td>
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<td>d Rye.</td>
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<tr>
<td></td>
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<td>Johnson, M. R., Wheatland. Pease and beans.</td>
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<tr>
<td></td>
<td>b Millet.</td>
<td>8</td>
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<td>Johnson, W. R., Wheatland. Flax.</td>
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<td>c Rye.</td>
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**GROUP 9.**

<p>| | | | |</p>
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<td>17.</td>
<td>Johnson, W. R., Wheatland. Flax.</td>
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<td>18.</td>
<td>Laramie Experimental Farm, Laramie.</td>
<td>59</td>
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</table>

Gottfried Brewing Co., Chicago, Ill. Brewers. For exhibit, see page 494.

Hy Nungesser, New York. Seeds. For exhibit, see page 641.

C. Aultman & Co., Canton, N. Y. Agricultural Implements. For exhibit, see page 430.

Marseilles M'f'g Co., Marseilles, Ill. Agricultural Implements. For exhibit, see page 420.

E. L. Boggs, Charleston, W. Va. Toilet requisites. For exhibit, see page 1031.

The Wacker & Birk Brewing Co., Chicago, Ill. Brewers. For exhibit, see page 639.

John Dowling & Co., Tyrone, Ky., Whisky. For exhibit, see page 1031.

Keeley Brewing Co., Chicago, Ill. Brewers. For exhibit, see page 630.

Cosmo Buttermilk Soap Co., Chicago, Ill. Soap. For exhibit, see page 433.

Machinery


Holly M'f'g Co., Lockport, N. Y. Pumping engines. For exhibit see page 430.

New York Safety Steam Power Co. Chicago, Ill. Engines and boilers. For exhibit see page 707.

Louis Wertheim. For exhibit see page 474.
AUSTRIA.

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1. Kulbelka Gebruder, Klosterhradisch (Moravia). Barley. 4
2. Landwirtschaftlicher Verein, Prerau (Moravia). Agricultural products. 4
3. Landwirtschaftlicher Verein, Wischau (Moravia). Agricultural products. 4
4. Landwirtschaftlicher Verein, Olmutz (Moravia). Agricultural products. 4
5. Ambrozic, Michael, Moistrana (Craniola). Appliances for the cultivation of bees. 26
7. Trezinski, S., Sieniava (Galicia). Shelled pulses. 32
8. Elias, V., Urbno (Bohemia). Hops. 46
9. Hausmann, Anton, Urbno (Bohemia). Hops. 46
10. Hopfenmarkt-Halle, Rakonitz (Bohemia). Hops. 46
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<td>9.</td>
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<td>10.</td>
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<td>11.</td>
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<th>No.</th>
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<tr>
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<tr>
<td>24.</td>
<td>Canadian Government—Experimental Farm for British Columbia, Agassiz. Potatoes, tubers, etc.</td>
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<tr>
<td>25.</td>
<td>Canadian Government—Experimental Farm for Manitoba, Brandon. Potatoes, tubers, etc.</td>
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<tr>
<td>26.</td>
<td>Canadian Government—Experimental Farm for Maritime Provinces, Napan. Potatoes, tubers, etc.</td>
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<tr>
<td>27.</td>
<td>Canadian Government—Experimental Farm for North-West Territories, Indian Head. Potatoes, tubers, etc.</td>
<td>28</td>
</tr>
<tr>
<td>28.</td>
<td>Provincial Government of Ontario, Toronto. Potatoes, tubers, etc.</td>
<td>28</td>
</tr>
<tr>
<td>29.</td>
<td>Provincial Government of Quebec, Quebec. Potatoes, tubers, etc.</td>
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<tr>
<td>31.</td>
<td>Canadian Government—Experimental Farm for British Columbia, Agassiz. Beans, pease, etc.</td>
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<td>Canadian Government—Experimental Farm for North-West Territories, Indian Head. Beans, pease, etc.</td>
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<tr>
<td>35.</td>
<td>Peacock, George C., Mount Salem, Ont. Beans, pease, etc.</td>
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<tr>
<td>36.</td>
<td>Provincial Government of Ontario, Toronto. Beans, pease, etc.</td>
<td>32</td>
</tr>
<tr>
<td>37.</td>
<td>Provincial Government of Quebec, Quebec. Beans, pease, etc.</td>
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<td>40.</td>
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<td>Plunkett, John, &amp; Co., Dublin, Ireland</td>
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<td>Malt liquors.</td>
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<td>Results from Rothamstead Experimental Farm.</td>
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<tr>
<td>23.</td>
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<td>Tea.</td>
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<th>GROUP 91.</th>
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<th>GROUP 98.</th>
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<th>GROUP 96.</th>
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<td>121. Das, Bhugwan, &amp; Gopinath, Benares City. Silver articles.</td>
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<tr>
<td>130. Shaw, Jhoomuck, Dinapore. Tussar silk fabrics.</td>
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<td>133. Houssein, M. D., Bengal. Handkerchiefs.</td>
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<tr>
<td>134. Shaw, Chadee Lall, Dinapore. Table cloths, napkins and sheets.</td>
</tr>
<tr>
<td>135. Shaw, Jhoomuck, Dinapore. Table cloths, napkins and sheets.</td>
</tr>
<tr>
<td>136. Shaw, M. L., Dinapore. Table cloths, napkins and sheets.</td>
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<td>144. Lall, Ganeshi &amp; Son, Simla. Gold and silver embroidery.</td>
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<tr>
<td>149. Raw Royag, Bengal. Mechanical dolls representing various phases of Hindu inner life.</td>
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49. Castellotti, Luigi, Grondola. Liqueurs.
52. Chelini, Fillippo, Breganzo. Liqueurs.
54. De Pasquale, Salvatore, Messina.
60. Garino, Eligio, Biella. Liqueurs.
64. Isolabella & Son, Milan. Liqueurs.
68. Orsini, Erminio, Giulianova. Liqueurs.
69. Ortensi, Carlo, Iesi. Liqueurs.
70. Piatti, Edwardo, Varese. Liqueurs.
71. Pin, Stefano, Fenestrelle. Liqueurs.
72. Serranno, Giustino, Aquila. Liqueurs.
73. Society for Distilling Kirschwasser, Genoa. Liqueurs.
74. Valfre, Giuseppe, Turin. Liqueurs.
75. Vanzetti, Giacomo, Biella. Liqueurs.

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95. Giannini, Matteucci, Lucci. Olive oil. 95
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97. Giuliani, Comm. Alberto, Lorenza. Olive oil. 95
98. Gondi, Carlo, Florence. Olive oil. 95
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25. Elliott & Murray, Hayes. Sugar. 18
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28. Grinan, J., Kingston. Sugar. 18
30. Kerr, Wm., Falmouth. Sugar. 18
31. Levy, Chas., Kingston. Sugar. 18
32. McCarty, A. G., & Son, Montego Bay. Syrup. 18
33. Muirhead, G. W., Alley. Sugar. 18
34. Parkins, J. W., Montego Bay. Sugar. 18
35. Robinson, A., Kingston. Sugar. 18
36. Robertson, G., Little River. Sugar. 18
37. Nixon & Harty, Alley. Sugar. 18
38. Sadler, E. J., Sav-la-Mar. Sugar. 18
39. Shearer, J. W., Duncans. Sugar. 18
40. Shirley, L. C., Duncans. Sugar. 18
41. Stiebel, Geo., Spanish Town. Sugar. 18
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57. Douet, Geo. A., Four Paths. Coffee. 47
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63. Francis, J., Gordon Town. Chocolate. 45
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3. Hidesaku Hashimoto, Saitama. Rice. 6
4. Hikotaro Abe, Osaka. Rice. 6
5. Hikotaro Tanaka, Saitama. Rice. 6
6. Ichiroji Koike, Saitama. Rice. 6
7. Issai Nagano, Kuma. Rice. 6
8. Kwan Kawai, Shiba, Chiba. Rice. 6
11. Jinroku Ishihara, Toyama. Rice. 6
12. Jirobei Suzuki, Saitama. Rice. 6
13. Kamekichi Koyama, Saitama. Rice. 6
14. Kanshiro Ando, Gifu. Rice. 6
15. Kashimadai Agricultural Association, Miyagi. Rice. 6
16. Katagata County Rice Culturing Association, Gifu. Rice. 6
17. Keizaburo Haru, Saitama. Rice. 6
18. Kichinosuka Suto, Akita. Rice. 6
19. Kikuiro Shimada, Miyagi. Rice. 6
20. Kishichi Shiratori, Miyagi. Rice. 6
22. Kotsu Village Agricultural Association, Chiba. Rice. 6
23. Kozaburo Sanata, Saitama. Rice. 6
24. Kuhei Igarashi, Yamagata. Rice. 6
25. Kumanosuke Abe, Fukuk. Rice. 6
26. Kunitaro Tanaka, Shimane. Rice. 6
27. Kusumi, Chiba. Rice. 6
28. Kusumi, Chiba. Rice. 6
29. Kusumi, Chiba. Rice. 6
30. Kusumi, Chiba. Rice. 6
31. Kusumi, Chiba. Rice. 6
32. Kusumi, Chiba. Rice. 6
33. Kusumi, Chiba. Rice. 6
34. Kusumi, Chiba. Rice. 6
35. Kusumi, Chiba. Rice. 6
36. Kusumi, Chiba. Rice. 6
37. Kusumi, Chiba. Rice. 6
38. Kusumi, Chiba. Rice. 6
39. Kusumi, Chiba. Rice. 6
40. Kusumi, Chiba. Rice. 6
41. Kusumi, Chiba. Rice. 6
42. Kusumi, Chiba. Rice. 6
43. Kusumi, Chiba. Rice. 6
44. Kusumi, Chiba. Rice. 6
45. Kusumi, Chiba. Rice. 6
46. Nisaka Muto, Saitama. Rice. 6
47. Takei Watanabe, Ehime. Rice. 6
48. Takenosuke Tajima, Saitama. Rice. 6
49. Takichiro Miyama, Yamagata. Rice. 6
50. Tokuro Ishikawa, Saitama. Rice. 6
51. Tokutarou Okuma, Saitama. Rice. 6
52. Tatsaburo Takahashi, Gifu. Rice. 6
53. Tsunehachi Iijima, Saitama. Rice. 6
54. Tsurukame Fuchinoue, Kumamoto. Rice. 6
55. Tsurutarou Matsumoto, Saitama. Rice. 6
56. Union Rice Exchange, Ehime. Rice. 6
57. Ushitarou Nakatsuka, Saitama. Rice. 6
58. Utakichi Arai, Saitama. Rice. 6
59. Wasuha Yusuda, Gifu. Rice. 6
60. Wazou Sekine, Saitama. Rice. 6
61. Wakanagi Rice Traders' Association, Miyagi. Rice. 6
62. Yago Sekiguchi, Saitama. Rice. 6
63. Yasukichi Hirata, Yamagata. Rice. 6
64. Yatoji Seda, Saitama. Rice. 6
65. Yassuta Mogi, Saitama. Rice. 6
66. Yasuochi Suzuki, Miyagi. Rice. 6
67. Yajuro Numajiri, Saitama. Rice. 6
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111. Bunemon Isagawa, Gifu. Green tea. 45
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114. Buzaemon Sanada, Shiga. Green tea. 45
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116. Chōzō Ikeya, Saitama. Green tea. 45
117. Chuji Yoshida, Gifu. Green tea. 45
118. Chōzō Yamamoto, Shizuoka. Green tea. 45
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120. Denkichi Hiramatsu, Shizuoka. Green tea. 45
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143. Ichirōemon Tsujii, Kyoto. Green tea. 45
144. Ichisaburō Takata, Shizuoka. Green tea. 45
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152. Isaburo Tahata, Shizuoka. Green tea. 45
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| 176. | Kinjirō Fukuda, Gifu. Green tea. | 45 |
| 177. | Kinjirō Sugimoto, Shizuoka. Green tea. | 45 |
| 178. | Kijyuro Nagasawa, Shizuoka. Green tea. | 45 |
| 179. | Kizakura Ota, Shizuoka. Green tea. | 45 |
| 180. | Kitaro Shirahata, Shizuoka. Green tea. | 45 |
| 181. | Kito Co., Kasahara Village, Shizuoka. Green tea. | 45 |
| 182. | Kito Co., Kawashiro Village, Shizuoka. Green tea. | 45 |
| 183. | Kito Co., Nakauchida and Shimochi Village Union, Shizuoka. Green tea. | 45 |
| 184. | Kizaemon Kinoshita, Kyōto. Green tea. | 45 |
| 185. | Kogen Mabuchi, Shizuoka. Green tea. | 45 |
| 186. | Kōgorō Yamashita, Shizuoka. Green tea. | 45 |
| 187. | Kohei Makioka, Gifu. Green tea. | 45 |
| 188. | Kohei Shinozaki, Shizuoka. Green tea. | 45 |
| 189. | Kojirō Tonooka, Shizuoka. Green tea. | 45 |
| 190. | Kumakichi Kaygyama, Shizuoka. Green tea. | 45 |
| 191. | Kumamoto Ten Tea Association, Kumamoto. Green tea. | 45 |
| 192. | Kumatarō Okano, Saitama. Green tea. | 45 |
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| 194. | Kurakawa Donen Association, Miyazaki. Tobacco leaf. | 48 |
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| 196. | Kurozaemon Katakura, Shizuoka. Green tea. | 45 |
| 197. | Kyorikku Association, Shizuoka. Green tea. | 45 |
| 198. | Kyousan Co., Saitama. Green tea. | 45 |
| 199. | Kyotō Fu Tea Traders' Union, Kyōto. Green tea. | 45 |
| 200. | Kyōto Tea Association, Kyōto. Green tea. | 45 |
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| 202. | Kyuzaburo Odake, Shizuoka. Green tea. | 45 |
| 203. | Magojirō Sakamoto, Shizuoka. Green tea. | 45 |
| 204. | Magosaburo Okada, Gumma. Tobacco leaf. | 48 |
| 205. | Matsujirō Ishiguro, Toyama. Green tea. | 45 |
| 206. | Makichi Suzuki, Shizuoka. Green tea. | 45 |
| 207. | Mikajima Trade Association, Saitama. Green tea. | 45 |
| 208. | Mikiemon Tsuruoka, Chiba. Green tea. | 45 |
| 209. | Mitsutarō Tsukijima, Shizuoka. Green tea. | 45 |
| 210. | Mitsuzo Tanaka, Saitama. Green tea. | 45 |
| 211. | Miyoji Matsuo, Nagasaki. Green tea. | 45 |
| 212. | Miyokichi Suzuki, Tochigi. Tobacco leaf. | 48 |
| 213. | Nagahide Honda, Tochigi. Green tea. | 45 |
| 214. | Nakashiro Mihara, Shizuoka. Green tea. | 45 |
| 215. | Naka Tani, Miyazaki. Black and green tea. | 45 |
| 216. | Nihei Takeyama, Fukui. Green tea. | 45 |
| 217. | Nizaemon Tashiro, Kagoshima. Green tea. | 45 |
| 218. | Nobukichi Otani, Saitama. Green tea. | 45 |
| 219. | Okayama-ken Tea Association, Okayama. Black tea. | 45 |
| 220. | Otokichi Seshimo, Gumma. Tobacco leaf. | 48 |
| 221. | Rihei Harada, Shizuoka. Green tea. | 45 |
| 222. | Rihei Tsuji, Kyōto. Green tea. | 45 |
| 223. | Rinji Yano, Gifu. Green tea. | 45 |
| 224. | Rinzo Miyashita, Gumma. Tobacco leaf. | 48 |
| 225. | Risuke Tsuji, Kyōto. Green tea. | 45 |
| 226. | Rokuroemon, Ozawa, Shizuoka. Green tea. | 45 |
| 227. | Ryobei Tomita, Shizuoka. Green tea. | 45 |
| 228. | Ryozo Miyake, Saitama. Green tea. | 45 |
| 229. | Saburobei Kamiki, Saitama. Green tea. | 45 |
| 230. | Saburo Saka, Shizuoka. Green tea. | 45 |
| 231. | Sadakaze Eguchi, Saga. Green tea. | 45 |
| 232. | Sadanosuke Ishikawa, Chiba. Green tea. | 45 |
| 233. | Sadatake Eguchi, Saga. Green tea. | 45 |
| 234. | Sajiro Matsuda, Nara. Green tea. | 45 |
| 235. | Sajyuro Oishi, Shizuoka. Green tea. | 46 |
| 236. | Sakuhei Morinaga, Saga. Tobacco. | 45 |
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247. Seigo Kanada, Fukuoka. Green tea. 45
248. Seiichi Sawano, Shizuoka. Green tea. 45
249. Seinoji Matsuo, Kyōto. Green tea. 45
250. Seinosuke Narita, Kobe. Green tea. 45
251. Seirouko Yamanashi, Shizuoka. Green tea. 45
252. Seisuke Moris, Shiga. Green tea. 45
252a. Seitaro Tanoue, Miyasaki. Tobacco leaf. 48
253. Seizaimon Kosaka, Kyōto. Green tea. 45
254. Seizaimon Tanaka, Kyōto. Green tea. 45
255. Senroku Iketa, Saga. a Leaf tobacco. 48
   b Tobacco. 51
c Cigarettes. 52
256. Senzaimon Fujizaki, Kagoshima. Tobacco leaf. 48
257. Shichiemon Tomozumi, Saitama. Green tea. 45
258. Shida Co., Hanashi Village, Shizuoka. Green tea. 45
259. Shijiro Watanabe, Yokahama. Green tea. 45
260. Shimataro Maeda and one other. Shizuoka. Green tea. 45
261. Shimonom Isawa, Tochigi. Green tea. 45
262. Shintaro Nishiyama, Tochigi. Tobacco leaf. 45
263. Shiroyo Mitsuhashi, Shizuoka. Green tea. 45
264. Shizukawa-ken Oolong Tea Union, Shizuoka. Oolong tea. 45
265. Shotaro Hara, Shizuoka. Green tea. 45
266. Shotaro Yamaguchi, Guma. Tobacco leaf. 48
267. Shuhei Kuramoto, Ibaraki. Green tea. 45
268. Sohachi Hirose, Ibaraki. Tobacco leaf. 48
269. Soju Morita, Ibaraki. Green tea. 45
270. Sonogi Chiwata Tea Manufacturing Co., Nagasaki. Green tea. 45
271. Sosuke Irie, Kyōto. Green tea. 45
272. Tajiro Muramatsu, Shizuoka. Green tea. 45
273. Takijiro Nakamura, Shizuoka. Green tea. 45
274. Takusen Co., Shizuoka. Green tea. 45
275. Tamaki Kitagawa, Kyōto. Green tea. 45
276. Tamaki Watanabe, Nagasaki. Red tea. 45
277. Tashichi Unno, Shizuoka. Green tea. 45
278. Tea Manufacture Training School, Saitama. Green tea. 45
279. Teichi Hara, Gifu. Green tea. 45
280. Teizui Honda, Shiga. Green tea. 45
281. Tobei Iwata, Chiba. Green tea. 45
282. Tobei Tsuji, Saga. a Leaf tobacco. 48
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283. Tochihiro Morishita, Shizuoka. Green tea. 45
284. Tokijiro Kawabata, Saitama. Green tea. 45
285. Tokuiro Kisawa, Gifu. Green tea. 45
286. Tokijiro Ozawa, Saitama. Green tea. 45
287. Tokijiro Sasano, Shizuoka. Green tea. 45
288. Tokushimaken Tea Men’s Union, Tokushima. Green tea. 45
289. Tomijiro Akimoto, Saitama. Green tea. 45
290. Tosa Tea Association, Kochi. Green tea. 45
291. Toyota Co., Kuma Village Tea Traders, Shizuoka. Green tea. 45
292. Toyorotaro Wada, Shizuoka. Green tea. 45
293. Toyoyo Ishikawa, Tokushima. Tobacco leaf. 48
294. Tsunehachi Lijima, Saitama. Green tea. 45
295. Tsunehachi Kishi, Tokushima. Tobacco leaf. 48
296. Tsunenjiro Tomono, Shizuoka. Green tea. 45
297. Tsunenjiro Ueda, Kyōto. Green tea. 45
298. Tsuto Moris, Nara. Green tea. 45
299. Uhei Moris, Guma. Tobacco leaf. 48
300. Umenosuke Kinura, Osaka. Green tea. 45
301. Umezo Asami, Saitama. Green tea. 45
302. Unosuke Sakabe, Kyōto. Green tea. 45
303. Uttar Kurebayashi, Shizuoka. Green tea. 45
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LIBERIA.

1. Barline Tribe. 12 Baskets; 13 Hats; Dip Net; Cooking Pot.
2. Bassa Tribe. Passava Cap; Jacko Skin; Raccoon Skin.
3. Boatswain Tribe. Fishing Lines and King Jars; 8 Blue and White Double Country Cloths; 16 Charm Armbands; War Collar; 3 War Caps; Iron Hand Fetish; 3 Fifes; Snuff Gourd; 5 Grass Hats; 2 Powder Horns; 24 Open-work Grass Hammocks; 3 Horns (Musical Instruments); 5 Native Staffs.
4. Congo Tribe. 6 Crawfish Baskets; Bamboo Mat.
5. Dey Tribe. Wooden Bowl, Canoe Fiddles, Charms; 13 Bows and Arrows; Strainer for Palm Butter; Bamboo Fish Basket; Grass Basket; Wooden Bowl with Handle; 6 Bowls; Dish Cover; Dipper; Devil's Robe Dress; Devil's Head; 2 Devil's Faces with Cloth to be attached; Skin Porcupine Fan; Native Fetish; 3 Powder Flasks; Dipper Gourd; Powder Gourd; 2 Palm Oil Calabash Gourds; White Gown; Draft Board (Games); Poo Board (Games); Wooden Idol; Wooden Ladle; 3 Mortars; 8 Small Wooden Spoons; Carved Stool for Kings (Whisper); 4 Large Rice Spoons; 2 Large Soup Spoons; 2 Eating Spoons; 4 Pairs Wooden Sandals; Rattan Pot Stand.
6. Gedibo Tribe. Rouge Bag; Bell; War Cap; 2 Poo Boards (Games); Carved Calabash Gourd; Large Native House (Model); Horn; Hammock; Cocoa Mat; 2 Grass War Skirts.
7. Goliah Tribe. War Collar; Musical Instruments; Country Chalk; 2 Adzes; Blacksmith's Bellows; Rouge Bag; 2 War Collars; Country Smoking Cap; Copper
Necklace with double charms; 4 Canoes; Blacksmith's Hammer; Chief's Hat; Circular Knife; 4 Ring Knives; 2 Large Wooden Spoons; Double Wooden Spoon.


9. Liberia. Arrow-root; Skins of Native Animals; Palm and other Oils; Ropes; Resin; Medicinal Plants; Palm Soap; Cassada Starch; Seeds; Cane Sugar and Syrup; Rice; 4 Cash Cow Horns; 12 Cow Nuts; Native Dyes; Coffee; Corn; Cotton; Personal Adornments; Specimens of Currency; Spoons, Silver Keys and Jewelry; Quills, Quivers and Arrows; Postage Stamps; Hippopotamus Bones and Skins; Photographs; Medals; Hammer; Coins; Chairs; Law Books and Books of the Koran; Bricks; Minerals; Castor Oil Beans; Kaffee Seed; India Rubber; Ginger; Assorted Fibres; Cocoa.

10. Liberia College. Ferns.

11. Liberia Tribe. Gum Arabic; Case Arrow-root; Bag Calabar Beans; Parcel Snake Bones; 6 Snake Bones; 9 Birds; 40 Bags Coffee; Cotton; 7 Bags Cocoa; 50 Easter Eggs; 1 American-Liberian Chair; 8 Bags Coffee; Drum Red Ripe Coffee Berries; Box Crystals; 2 Bags Coffee; Case Red Ochre (Dyes); Package Indelible Blue (Dye); Package Plant on which above dye is grown; Yellow Dye Barks; Bundle Fibre; Bundle Fibre (Bamboo); Bundle Fibre (Manila or Plantain); 4 Bundles Fibre (Beach); 3 Bundles Fibre (Bamboo); 2 Bundles Fibre (Piassava); 5 Animal Heads; 3 Birds' Heads; Bush Cow Horn; Hippopotamus Liberienesis (Mounted); 24 Hippopotamus Teeth; 8 Little Deer Horns; 14 Bush Cow Horns; 9 Deer Horns; 6 Antelope Horns; 2 Elk Horns; 3 Deer Horns; Hippopotamus Tusk; Sugar Cane Hats; Case Iron Ores; 7 Tusks, Ivory; Case Ivory; Case Ivory Scarp; Bag Palm Kernels; Paper Knife; Money, different issues of 1 and 2 cent pieces; Money, and Paper Currency. Necklaces. — "The Observer, " April 12: 12 Triple Nests; 4 Swinging Nests; 2 Nests; 3 Barrels Palm Oil; Case Orchid Bulbs; Orchids (described on card); Palm and Nut Oils; Pure Palm Oil from Cape Palmas; Photographs; Peas, Ground; Postage Stamps, Postal Cards and Stamped Envelopes; 2 Bunchine Quills; Case Quartz; Case Resin; Model of Liberian House; Case Rubber; 33 Bunches Rice; 3 Water Deer Skins; 7 Fullatomba Skins; 3 Striped Mountain Deer Skins; 3 Brown Mountain Deer Skins; 6 Bush Goat Skins; 7 Red Deer Skins; 4 Other Skins; 2 Red Monkey Skins; Black Monkey Skins; 5 Jack Monkey Skins; 3 Squirrel Skins; 2 Tiger Cat Skins; 7 Bush Cat Skins; Coon Skin; 3 Otter Skins; Cassada Snake Skin; Black Snake Skin; 4 Leopard Skins; Bundle Sponges; Bundle Tortoise Shells; Otter; 4 Striped Monkey Skins; Case Kolah Seeds; Benne Seeds; Bamboos; 2 Bundles Calabash; Nutato Seeds; Locust Seeds; Walking Sticks; Saw Fish Teeth; Native Woods (See Cards); Greasy Peach Wood; 2 Pieces Wood; Bag Camwood; 18 Pieces Wood (See Cards); Survey of Monrovia; Survey of Clay Ashland.

12. Mandingo tribe. Axes; Bill Books; Wooden Bowl; Rattan Baskets; Grass Bags; Strainers; Slates, Spears and Arrows; Tidies; Leather Girdles; Mortar and Pestles; War Shield; Stool, Shoes and Sandals; King's Staffs; Swords, Spears; Mats; Native Loom; Elephants' Tusks; Ink Stands; Earthenware Collections; of Dolls and Charms; Slave Cloths; Caps; Worship Beads; Skin Covered Bottle; Bows and Arrows; Skin Pouches; Leather Bags; Benen Seeds; 4 Bamboos; Iron Bracelet; 2 Brass Bracelets; 2 Copper Bracelets; 7 Leather and Skin Bags; Basket; Earthen Bottle and Holder; Water Jar; American Tobacco; 2 Beads; 2 Rattan Baskets; Leather Snuff-box; 7 Country Belts; Book Bag, Fancy Bag; Leather Bag; 2 Leather-covered Bottles; 8 Plain Blue and White Country Cloths, double; 3 Striped Country Cloths, double; Black Grass Warrior Cap; War Cap; 20 Chaps; 3 Needle Cases; 2 Native Cottons; Native Cloths; Native War Cap; Native War Collar; 11 Leather Charms; 2 Gourd Dippers; 25 Unsheathed Dirks—2 Silver-mounted; 25 Sheathed Dirks; 6 Daggers; Sheath Dagger; 36 Dirks; Country Fiddle; Set Snuff Fixtures; Worked Gown; Talismanic War Gown; 2 Leather and Skin Girdles; Powder Gourd; Girdle; 13 Hammers; Snuff Horn; 2 Country Harps; Grass Hat; 2 Long Horns; 4 Bars Pig Iron; 27 Inkstands; 2 Earthenware Inkstands; Carved Wooden Inkstand; 3 Sheathed Knives; 2 Knives; Loom; Bopora Map; 16 Mats; 5 Necklaces; Needlecase; 10 Quivers; 12 Horns; Pair Leather Smith's Pincers; 34 Fancy Skin Pouches; 2 Small Pots; 2 Quivers of Pens; Bundle of Pens; 3 Country Pots; Cooking Pot; Case Earthenware Pots; Bamboo Rattle for Child; Rattan Quiver for Arrows; Slave Rope; Reading Matter—"Karan," "Makamat Harini," "Al Falak Salama," "Arabic Manuscript;" 3 Pairs Wooden Sundals; 16 Used Sheathed Swords of Different Patterns; 10 Fancy Native Sticks; 3 Country Slatles; 4 Pairs Sandals; King's Stool; 2 Pairs Sandals; 5 Long Spears; Silver-Mounted Sword; 2 Spears; 15 Native Swords; 2 Leather Swords; 2 Country Tureens; Pair Worship Beads; 22 Country Whips.

13. Pessell tribe. Grass; Bags; Razors; Powder Gourds; Flutes; Snuff Horns; War Cap; Cutter; Calaba Beans; 3 Open-mouthed Grass Bags; 70 Grass Hand Bags; 7 Baskets; 10 Grass Hand Bags; 14 Open-mouthed Bags; 2 Grass Bags; 3 Grass Bags; Large Grass Bag; 11 Copper Bracelets; Small Bag; 6 Cloths; Brass Chain; Dart; 6 Fanners; 2 Fans; 5 Fanners; 4 Fanners; 10 Fish Lines; Blue and White Gown; 7 Poo Boards (Games); Common Country Gown; 13 Bill Hooks; Hoe; 3 King Jars; 16 Knives; 6 Small Knives; 2 King Jars; Loom and Attachment; Peth Mat; 2 Bamboo Mats; 109 Boro Ropes; 2 Razors; 5 Rings; 2 Palm Rings; 3 Native Swords; Gun Shield; 7 Strainers.
14. Queah Tribe. Rosewood Canoe; Bamboo Chair; 14 Small Canoes of different woods; 14 Small Paddles of different woods; Bamboo Chair; Poo Board (Game); King's Stool; Bamboo Triple Stool for King's use; 2 Bamboo Trunks; 2 Rattan Trunks.

15. Vey Tribe. Hats; Carved Head; Hammocks; Fishing Nets; 5 Axes; 2 Rouge Bags; Grass Fish Bag; Bow and Arrow; Broom; Fish Basket; 2 Silver Bracelets; Grass Bracelet; Grass Basket; 3 Silver Bracelets; 7 Copper Bracelets; Worked Double Country Cloth; 2 White Country Cloths; Blue Country Cloth; 14 Grass Caps; 2 Caps; Grass Dish Cover; 5 Grass Caps; Embroidered Cap; Silver Charm; Copper Breast Charm and Chain; Devil's Head and Fanners for Back; Devil's Head and Fanners for Head; 4 Fish Nets; Blue and Yellow Gown; 3 Embroidered Gowns; 2 Grass Gree-gree Women's Head-dresses; 9 Gree-gree Horns; Embroidered Gown; Poo Board (Game); Native Gree-gree Chalk; 7 Grass and Cotton Gree-gree Charms; Closely-worked Grass Hammock; Hammock; 3 Grass Hats; 2 Grass Hats; Yarn Hammock; Ivory Snuff Horn; Cloth Hammock; 2 Silver Keys; 4 Sherbro Mats; Silver Necklace; Silver Necklace Charm; Dip Net; White Shawl; Worked Shawl; 12 White Scarfs; 2 Blue Native Scarfs; Leopard's Tooth and Tenda; 24 Grass Whips.


20. Dennis, W. C. 3 Large country cloths.

23. Green, Miss. 4 Worked book marks.
24. Herring, S. S. Palm soap.
25. King, A. B. Idols; ivory; head dresses; bracelets; books of the Koran; chairs.
28. Meiter Syndicate. 26 pounds rubber.
29. Payne, B. T. Alligator skin; Alligator head; passava sticks in the rough; 8 leopard skins.
30. Ricks, J. H. Medicinal plants.
31. Ricks, M. A. Raised work; embroidered satin quilt, representing a coffee tree in full bloom.
32. Snettert, E. A. Pair worked slippers.
33. Taitse, T. I. Soap.
34. Valentine, M. S. K. Model of Gedebo house; writing and printing in Gedebo; gree-grees; war drum; war horn; cooking utensils; leather charms.
35. Valentine, M. P. Gedebo sword; king's stool; charm; ding's van—cow tail; Gedio writing.
36. Washington, J. S. 2 cases minerals.
39. Witherspoon, H. H. Old iron from native grave.

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No one viewing the brewing industry from the standpoint of its nineteenth century development and beholding the perspective of the picture fading into antiquity, can fail to discover that the evolution of this mighty factor of modern enterprise is contemporaneous with the evolution of bread itself. The first historical mention of brewing is found in the papyri of the Egyptians. The presence of barley in the tombs of the Pharaohs would seem to anticipate for untold ages the papyri records, and much presumptive evidence of the greatest antiquity is found in the then perfection of the amber beverage for which we moderns, with laughable simplicity, are worshipfully thanking Gambrinus.

The Egyptians simply crushed the barley and mixed it with water and fermented the combination without the intervention of heat. If malting was known, we have no record of it. The Assyrians advanced one step and may be called the first brewers, for they boiled the crushed grain and then proceeded as the Egyptians were doing.

No one knows what happy accident of deluge or disaster tempted some shrewd husbandman of centuries agone to spread his wetted grain to dry, and no one knows his dire dismay when little sprouts, fed by the life within, seeking God's sunlight, came inquiringly into the world, or how he tried to stop that growth and blunt for another age the sharp wedge of progress, or how, in desperation, he tried to brew with what he thought was useless, only to find the product better and that the world had discovered malt. Strength, calmness, power of thought, stately forms of giant men, the mighty hosts of peace and war have
since been sustained and built up by the jolly quaffing of foaming tankards.

Imagination pictures the almost mythical Arthur, surrounded by his Knights of the Round Table, drinking the barley brew and with storied romance creating that legendary lore which Tennyson immortalized. We almost wonder if this Welsh hero of the Britons 1,300 years aback could have told whence came the beverage, while we, seeing from greater distance the rounded contour of its history, find it was brought to Britain by the soldiers of Julius Caesar 500 years before brave Arthur reigned.

Ariovistus, a bold and powerful Suevic chief, was the first German to come in conflict with the minions of Julius Caesar. When Caesar sent to him proposing a personal interview, he haughtily answered that Caesar had better come to Ariovistus, which Caesar quickly did, and it may be added history has no further record of Ariovistus. But Caesar continued his conquests, and his soldiers, who had learned the art of brewing from the Egyptians, gave the secret to the vanquished Germans, who subsequently became friendly allies. We think that every German who finds the gold beneath the snow of a "Mass" of Hofbrau, will, with a passing sigh of regret at the fate of Ariovistus, proceed to drown the memory of the sad event and be glad that Caesar came.

The Gauls and Franks never cultivated to a great extent the brewer’s art, preferring the product of the vintage and Bacchus, before Gambrinus, and the strange fact becomes apparent to the thoughtful observer that the more volatile races of all Europe prefer the sparkling brilliancy of those drinks of amusement which originate in the clustering grape, while the steady and more powerful races with confidence demand that richer boon which springs from the waving barley.

Up from rich Mother Earth springs a graceful vine, its delicate tendrils clinging for support and its soft green foliage suggesting the delight of shadowed coolness beneath the summer sun. Coy it grows, yet climbs to greater height and in its sweet development suggests the woman. And as she rises, she decks herself with flowers whose petals, opening to the light, throw abroad a peaceful and somnolent perfume. What happy blending of fate and affinity brought to an universal wedding the sturdy barley and the winsome hop? What harmony of wedded life could be more perfect? True, she brought some bitterness into the life of the good-natured fellow, but John Barleycorn has gained from her that soothing quality which slacks the tension of the weary brain and makes the malt beverage of the nineteenth century the safety valve of the high pressure minds which are sacrificing themselves to create modern civilization.
The history of brewing in America commenced on June 22, 1789, when was passed, together with the famous Blue Laws of Massachusetts, the bill exempting the manufacturers of malt beverages in the commonwealth of Massachusetts from taxation for five years, in order to encourage the business. But it is better to quote their reasons for passing the law:

Whereas, The manufacture of strong beer, ale and other malt liquors will promote the purposes of husbandry and commerce by encouraging the growth of such materials as are particularly congenial to our soil and climate and by producing a valuable article of exportation, and,

Whereas, the wholesome qualities of malt liquors greatly recommend them to general use, as an important means of preserving the health of the citizens of this commonwealth and of preventing the pernicious effect of spirituous liquors, be it therefore enacted, etc.

Well, we have quoted enough. The old statesmen who framed our constitution probably knew what they were talking about; and when we find that the total product of the brewing industry in America at this time was not over 3,000 barrels in a year, and that today it has grown to an annual output of over 40,000,000 barrels, paying into the United States Treasury annually $40,000,000 toward the support of the government, being one of the largest single industries of the whole country, we can not help astonishment. It is within the last twenty-five years, however, and chiefly within the last fifteen that the American people as a nation have turned away from the more hot and rebellious and turned to the most soothing and peaceful of modern beverages. It has been a natural tendency, due in some measure to the energy and intelligence of the brewers themselves, but in far greater measure to that tremendous activity of the American mind and the equally occidental tendency to overwork it, and the consequent demand for some harmless beverage which is not only a gentle sedative, but almost a food. Malt beverages are a source of calmness, while wines and liquors
are a source of excitement; both have their uses, but calmness is what is most needed, hence the rapidly increasing development of the brewing industry.

To the Germans, with their strong love of home and fond memories of the Fatherland, and their national fondness for that lightest of malt beverages, lager beer, are we indebted for its introduction to America. Even to-day the business is largely controlled by this prosperous, conscientious and thrifty people. The magnitude which has been attained by the more prominent brewing enterprises of America is almost astounding, and the West boasts several breweries whose production exceeds 500,000 gallons annually. There is no mystery about brewing and all the larger companies have regular guides to show visitors over the plants and give the public an opportunity to observe the absolute cleanliness and the sturdy honesty which characterizes the various processes. The German has nothing to fear from the most critical examination of his business methods, either in the processes or the material used in producing the world’s greatest beverage.

The largest single representative of the brewing industry is, as every one knows, the Pabst Brewing Co., of Milwaukee. The annual output of this company is 1,108,000 barrels, about 71 per cent., greater than that of its nearest rival. The Pabst Brewing Co. brews, therefore, 1-33 part of the entire output of the United States, although there are 1,780 breweries. The kegs and packages used by the Pabst Brewing Co., loaded for shipment, would make a train 116 miles long. The daily shipments average 75 car loads for each working day. About 150,000 barrels of the product are bottled, making 40,000,000 bottles, mostly quarts. The annual cost of corks is $138,000. The buildings alone cover ten acres, and thirty-four acres of floor space are in constant use. The exhibit which they make at the Fair is marvelous in its splendor—a gold model of the brewery, made from architectural drawings, an absolute and exact representation of Milwaukee buildings only and including only those which are in constant actual use. If the forty branch houses, the ice houses (numbering more than 400), the untold corners, business blocks, hotels, theatres, cooperage shops, the Spanish cork factory, the glass bottle manufactory, the southern ice-plants, the nearly 500 agencies, owned or controlled by them were included, the model, on the scale of 1-8 of an inch to the foot, would cover 800 square feet. Over this golden model is a terra cotta and glass palace, which is symbolic of the brewing industry and which must be seen to be appreciated.

Visitors to the World’s Fair will find when they see the Brewers’ corner a display equal to any class of exhibits. The refined elegance of the structures which they have built for the display of their wares, reflects the greatest credit upon them, showing as it does a keen intelligence and a broad comprehension of nineteenth century business requirements.

It is now becoming generally admitted that many of the gravest questions of the temperance problem will be solved by the increasing popularization of malt beverages, which slowly but surely are superseding more spirituous drinks, and thereby paving the way to that truetemperance which should be the highest ideal of the reformer
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DEPARTMENT J—ELECTRICITY.

The wonderful strides made in the field of electrical appliances during the past few years find a miniature in the display made at the Exposition. The prime object of the department is the demonstration, in actual operation, of the commercial and economic applications of electricity, and exhaustive tests of electrical apparatus in all possible directions, with a view to establish the actual efficiency of the same in comparison with other and older methods of accomplishment. In addition to these practical features, object lessons of interest and instruction, showing the development of the science from its formative or initiatory state to the present time, are presented. The accomplishment of this object takes the form of an historical exhibit embodying models, drawings and crude machinery made and used by pioneers in the science.

Electric Lighting.—The buildings and grounds of the Exposition are lighted by electricity. About 8,000 arc lamps of 2,000 candle power, and about 130,000 incandescent lamps of sixteen-candle power are required. Besides this, from 3,000 to 3,500 horse-power is required for the operation of the machinery of exhibitors. To mit this 24,000 Exposition Constructed a plant, complete station posed of a number plete plants, in-who contract to parts of the ser plants are primar of the Exposition, that reason pro-coming competi-well. The group by electricity is arc systems, their appliances; and systems, their and appliances.

Apparatus.—measurements; dary electric bat-direct current; incision; voltmeters, meters, etc.; ostats, switches, and protective appliances, such as lightning rods, lightning arrestors, fusible cutouts, etc., are appropriately grouped. Heating by electricity, electrotyping, electro-plating, gilding and nickeling are exhibited.

Mining and Milling Work.—Motors and other electric machinery are exhibited to fully illustrate the possibilities of the science in the direction of mining and milling, the long-distance transmission of power for mining operations, and the various applications of the power at the point of usefulness. Here may be seen electro-deposition of iron and other metals; electrolytic separation of metals from their ores or alloys, electric forging, welding, stamping, tempering, brazing, etc.

Artistic Effects.—Art in electricity is becoming popular, and the newest and most approved fixtures for lighting, as well as the many systems of stage and auditorium lighting, the lighting of art galleries, etc., are shown.

Insulation Work.—Wiring, underground and overhead systems of con-
struction, interior insulation, conduit construction, etc., are greatly benefited by carefully installed exhibits, showing development in these directions.

TELEGRAPH AND SIGNALS.—In this group are shown the various systems of transmitting and receiving, chronographs, annunciators, thermostats, fire alarm apparatus, police telegraph and burglar alarm apparatus and railroad signal apparatus.

The Telephone.—The receiving and transmitting appliances of the now generally used telephone, together with the switch boards, signals, registers, etc., are shown in a separate group, embracing also receiving and recording apparatus, such as the phonograph.

Miscellaneous.—In other groups are found exhibits of electric pens, electricity in surgery, dentistry and therapeutics; apparatus for the destruction of life, as seen in New York, for instance, where it is by law used for capital punishment; electricity in photography; in heating apparatus as applied to steam and hot air pipes and registers; its uses as a remedial agent and the history and statistics of electrical inventions, showing models and drawings of patents in Europe and America.

The Building.—The Electrical Building is 345 feet wide and 700 feet long, the major axis running north and south. The south front is on the great Quadrangle or Court; the north front faces the lagoon; the east front is opposite the Manufactures Building, and the west faces the Mines Building. The general scheme of the plan is based upon a longitudinal nave 115 feet wide and 114 feet high, crossed in the middle by a transept of the same width and height. The nave and the transept have a pitched roof, with a range of skylights at the bottom of the pitch, and clearstory windows. The rest of the building is covered with a flat roof, averaging 62 feet in height, and provided with skylights. The second story is composed of a series of galleries, connected across the nave by two bridges, with access by four grand staircases. The area of the galleries in the second story is 118,546 square feet, or 2.7 acres. The exterior walls of this building are composed of a continuous Corinthian order of pilasters, 3 feet 6 inches wide and 42 feet high, supporting a full entablature, and resting upon a stylobate 8 feet 6 inches. The total height of the walls from the grade outside is 68 feet 6 inches. At each of the four corners of the building there is a pavilion, above which rises a light open spire or tower 169 feet high. Intermediate between these corner pavilions and the central pavilions on the east and west sides, there is a subordinate pavilion bearing a low square dome upon an open lantern. The building has an open portico extending along the whole of the south façade, the lower or Ionic order forming an open screen in front of it. The various subordinate pavilions are treated with windows and balconies. The details of the exterior orders are richly decorated, and the pediments, frieze, panels and spandrels have received a decoration of figures in relief, with architectural motifs, the general tendency of which is to illustrate the purposes of the building. The appearance of the exterior is that of marble, but the walls of the hemicycle and of the various porticos and loggia are highly enriched with color, the pilasters in these places being decorated with scagliola, and the capitals with metallic effects in bronze.

Following are from the rules issued by Chief Barrett:

All exhibits of electrical apparatus are installed in the Electrical Building, excepting generators, and the adjuncts of a generating plant, which are shown in operation.

Ample facilities are furnished in the Electrical Building for moving any article or piece of machinery weighing not over 80,000 lbs., by means of railroad derricks.

No exhibitor can make exhibits in other than his own space without obtaining the written permission to do so from the Chief of the Department.

No exhibitor will be allowed to arrange his exhibit in a way to occasion inconvenience or affect the display of other exhibitors.

The floor of the Electrical Building is designed to sustain a weight of 150 pounds per square foot. Any exhibit requiring an extra support, in the judgment of the Chief of the Department, must be furnished with satisfactory support or foundation at exhibitor's expense.

All platforms, railings, counters, signs, partitions and showcases must be erected at exhibitor's expense and shall not exceed dimensions given in the general rules.
For the purpose of the installation of exhibits, the Electricity Building is divided into sections, labeled from A. to Z., and on the gallery floor plan the sections can be easily located. The location of exhibits is indicated by a letter and a number. For example, "Y-4" means that the exhibit is in Section "Y," which is in the gallery, and exhibit space 4.
# CLASSIFICATION

**ELECTRICAL DEPARTMENT (J.)**

**ELECTRICITY AND ELECTRICAL APPLIANCES.**

## GROUP 122.
**APPARATUS ILLUSTRATING THE PHENOMENA AND LAWS OF ELECTRICITY AND MAGNETISM.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>755.</td>
<td>Statical electricity.</td>
</tr>
<tr>
<td>758.</td>
<td>Thermo electricity; thermo-electric batteries.</td>
</tr>
<tr>
<td>759.</td>
<td>Magnets, temporary and permanent.</td>
</tr>
<tr>
<td>760.</td>
<td>Induction coils, converters, etc.</td>
</tr>
</tbody>
</table>

## GROUP 123.
**APPARATUS FOR ELECTRICAL MEASUREMENTS.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>762.</td>
<td>Standard condensers.</td>
</tr>
<tr>
<td>763.</td>
<td>Standard batteries.</td>
</tr>
<tr>
<td>764.</td>
<td>Instruments of precision; voltmeters, ammeters, wattmeters, etc.</td>
</tr>
</tbody>
</table>

## GROUP 124.
**ELECTRIC BATTERIES, PRIMARY AND SECONDARY.**

## GROUP 125.
**MACHINES AND APPLIANCES FOR PRODUCING ELECTRICAL CURRENTS BY MECHANICAL POWER—DYNAMICAL ELECTRICITY.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>765.</td>
<td>Dynamos of direct current, constant electro motive force; varying quantity.</td>
</tr>
<tr>
<td>766.</td>
<td>Dynamos of direct current, constant quantity and varying E. M. F.</td>
</tr>
<tr>
<td>767.</td>
<td>Dynamos of alternating current, constant E. M. F., and varying quantity.</td>
</tr>
<tr>
<td>768.</td>
<td>Dynamos of alternating current, constant quantity and varying E. M. F.</td>
</tr>
</tbody>
</table>

## GROUP 126.
**TRANSMISSION AND REGULATION OF THE ELECTRICAL CURRENT.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>769.</td>
<td>Cables, wires, and insulation; rheostats, switches, indicators, registering meters; ammeters, voltmeters.</td>
</tr>
<tr>
<td>770.</td>
<td>Safety and protective appliances; lightning rods, lightning arresters, insulators, fusible cut-outs, safety switches, etc.</td>
</tr>
<tr>
<td>771.</td>
<td>Conduits, interior and underground.</td>
</tr>
</tbody>
</table>

## GROUP 127.
**ELECTRIC MOTORS.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>772.</td>
<td>Direct constant current.</td>
</tr>
<tr>
<td>773.</td>
<td>Direct constant E. M. F.</td>
</tr>
<tr>
<td>774.</td>
<td>Alternating current.</td>
</tr>
</tbody>
</table>

## GROUP 128.
**APPLICATION OF ELECTRIC MOTORS.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>775.</td>
<td>Street, underground, mining and other railways.</td>
</tr>
<tr>
<td>776.</td>
<td>Elevators, pumps, printing presses, and general machinery.</td>
</tr>
<tr>
<td>777.</td>
<td>Toys, novelties, and domestic appliances.</td>
</tr>
</tbody>
</table>

## GROUP 129.
**LIGHTING BY ELECTRICITY.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>778.</td>
<td>The arc systems, their lamps, fixtures and appliances.</td>
</tr>
<tr>
<td>779.</td>
<td>The incandescent systems, their lamps, fixtures and appliances.</td>
</tr>
</tbody>
</table>

## GROUP 130.
**HEATING BY ELECTRICITY.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>780.</td>
<td>For warming and heating apartments.</td>
</tr>
<tr>
<td>781.</td>
<td>For heating flat irons, soldering irons, and other objects used in industrial operations.</td>
</tr>
<tr>
<td>782.</td>
<td>Maintenance of constant high temperature in ovens.</td>
</tr>
<tr>
<td>783.</td>
<td>Electric heating furnaces.</td>
</tr>
</tbody>
</table>
GROUP 131.

ELECTRO-METALLURGY AND ELECTRO-CHEMISTRY.

Class 784. Electrotyping.
Class 785. Electro-plating, gilding and nickeling.
Class 786. Electro-deposition of iron and other metals.
Class 787. Electrolytic separation of metals from their ores or alloys.

GROUP 132.

ELECTRIC FORGING, WELDING, STAMPING, TEMPERING, BRAZING, ETC.

Class 788. Apparatus for, and methods of forging, welding or joining iron, steel and other metals.
Class 789. Brazing, stamping, tempering, etc.

GROUP 133.

ELECTRIC TELEGRAPHS AND ELECTRIC SIGNALS.

Class 790. Various systems of transmitting and receiving.
Class 791. Chronographs.
Class 792. Annunciators.
Class 793. Thermostats.
Class 794. Fire alarm apparatus.
Class 795. Police telegraph and burglar alarm apparatus.
Class 796. Railroad signal apparatus.

GROUP 134.

THE TELEPHONE AND ITS APPLIANCES. PHONOGRAPHS.

Class 797. Cables; construction and underground work.
Class 798. Special protective devices.
Class 799. Switch boards.
Class 800. Transmitting apparatus.
Class 801. Receiving apparatus.
Class 802. Signalling apparatus.
Class 803. Long distance systems.
Class 804. Various systems of operation.
Class 805. Subscribers' apparatus: Numbers, code, registers, etc.
Class 806. Phonographs.—Receiving and recording apparatus.
Class 807. Apparatus for the reproduction of recorded sounds and articulate speech.

GROUP 135.

ELECTRICITY IN SURGERY, DENTISTRY AND THERAPEUTICS.

Class 808. Cautery apparatus.
Class 809. Apparatus for the application of the electrical current as a remedial agent—surgical and dental.
Class 810. Apparatus for diagnosis.
Class 811. Apparatus for the destruction of life.

GROUP 136.

APPLICATION OF ELECTRICITY IN VARIOUS WAYS NOT HEREINBEFORE SPECIFIED.

Class 812. Ignition of explosives; gas lighting, etc.
Class 813. Control of heating apparatus by electricity, as applied to steam and hot air pipes and registers.
Class 814. Electric pens.
Class 815. Application in photography.

GROUP 137.

HISTORY AND STATISTICS OF ELECTRICAL INVENTION.

Class 816. Objects illustrating the development of the knowledge of electricity and of the application of electricity in the arts.
Class 817. Collections of books and publications upon electricity and its applications.

GROUP 138.

PROGRESS AND DEVELOPMENT IN ELECTRICAL SCIENCE AND CONSTRUCTION, AS ILLUSTRATED BY MODELS AND DRAWINGS OF VARIOUS COUNTRIES.

Class 819. Foreign exhibits of electrical models and drawings.
GROUP 138 A.

Class A. Construction tools, repairing tools, apparatus used in electrical construction.
Class B. Apparatus for transmission of power to electrical generators (steam, compressed air, turbine oil friction, gearing, belting, etc., etc.
Class C. Process of electro-engraving.
Class D. Carbon and its application.
Class G. Metals and their application in the construction of electrical apparatus.
Class H. The kinetograph.
Class J. Direct couple engine dynamos.
Class K. Electrical lubricators.
Class L. Application of electricity in testing and aging liquors.
Class M. Electric tanning.
AMERICAN ELECTRICAL WORKS
PROVIDENCE, R. I., U. S. A.

MANUFACTURERS OF

Bare and Insulated Electric Wires

RAILWAY FEEDER AND TROLLEY WIRE.

ELECTRIC LIGHT LINE WIRE.

INCANDESCENT AND FLEXIBLE CORDS.

AMERICANITE, MAGNET, WIRES
OFFICE and ANNUNCIATOR WIRES
FARADAY CABLES.

NEW YORK OFFICE, P. C. ACKERMAN, AGENT, 10 Gortlandt St.

MONTREAL BRANCH:

EUGENE F. PHILLIPS ELECTRICAL WORKS, LTD.
Dept. J--Electricity and Electrical Appliances.

UNITED STATES.

GROUP 122.

Apparatus Illustrating the Phenomena and Laws of Electricity and Magnetism.

2. Brush Electric Company, Cleveland, Ohio.
   a Temporary and permanent magnets. L-6-7 759
   b Induction coils, converters, etc. 760
   For exhibit see page 678.
3. Diamond Electric Manufacturing Company, Peoria, Ill. Induction coils, converters, etc. L-4 760
5. Elwell-Parker Electric Construction Co. (of America), Chicago. Transformers. E-3 760
   a Magnets. H-2 759
   b Induction coils, converters and transformers. C-1 760
   a Statical apparatus. F-8 757
   b Magnets. 759
   c Induction coils, etc. 760
13. Pratt Electro Medical Supply Company, Chicago.
   a Static electricity. U-11-a 757
   b Thermo electric batteries. 758
   c Temporary and permanent magnets. 759
   d Induction coils. 760
   a Electrical machines. E-7 758
   b Batteries. 758
   c Induction coils and converters. 760
   a Statical electricity. 757
   b Transformers; induction coils. 760
   a Magnets. A-485 759
   b Induction coils, etc. 760

GROUP 123.

Apparatus for Electrical Measurements.

   a Resistance coils. M-1 & 2 761
   b Voltmeters, ammeters, etc. 764
   a Resistance coils. U-8 761
   b Batteries. 767
   c Instruments of precision. 764
   a Condensers. Y-2 762
   b Batteries. 763
25. Cutter, Geo., Chicago. Voltmeters; ammeters; wattmeters. T-3 764
   a Resistance coils. F-8 761
   b Condensers. 762
   c Batteries. 763
   d Voltmeters, ammeters, etc. 764
32. Jaeger, Charles L., Maywood, N. J. Voltmeters, ammeters, etc. T-19 764
33. Lee, Charles E., Chicago. Battery test. S-20 764
<table>
<thead>
<tr>
<th>Page</th>
<th>DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.</td>
<td>McIntosh Battery &amp; Optical Co., Chicago. Electrical measurement apparatus. W-3 764</td>
</tr>
</tbody>
</table>
| 35.  | Pratt Electro Medical Supply Company, Chicago.  
b. Standard condensers. 762  
c. Voltmeters, ammeters, etc. 764 |
a. Resistance coils. E-7 761  
b. Condensers. 762  
c. Testing keys and batteries. 763  
d. Ammeters, voltmeters. 764 |
| 40.  | Western Electric Co., Chicago.  
a. Resistance coils. A-4&5 761  
b. Condensers. 762  
c. Batteries. 763  
d. Instruments of precision, voltmeters, ammeters, wattmeters. 764 |
| 41.  | Weston Electric Instrument Co., Newark, N. J. Voltmeters, ammeters, galvanometers, etc. R-6 764 |
| 42.  | White, James, Glasgow, Scotland. Voltmeters; ammeters, wattmeters, etc. E-7 764 |

**GROUP 124.**

Electric Batteries, Primary and Secondary.

<table>
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<th>Page</th>
<th>Electric Batteries, Primary and Secondary.</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.</td>
<td>American Battery Company, Chicago. Primary and secondary batteries. T-9-a</td>
</tr>
<tr>
<td>45a.</td>
<td>Arentz, Roald, Copenhagen, Denmark. Electric machine. Dept. H</td>
</tr>
<tr>
<td>50.</td>
<td>Ford-Washburn Storelectro Co., Cleveland, O. Storage batteries. U-15 For exhibit see page 1003</td>
</tr>
<tr>
<td>52.</td>
<td>Harrison Battery Light &amp; Power Co., Washington, D. C., Primary battery and boat cell. T-13-a</td>
</tr>
<tr>
<td>58.</td>
<td>National Carbon Co., Cleveland, Ohio. Carbon battery elements. R-7-b</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Page</th>
<th>Electric Batteries, Primary and Secondary.</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.</td>
<td>Pratt Electro Medical Supply Company, Chicago. Electric batteries. U-11-a</td>
</tr>
<tr>
<td>63.</td>
<td>Queen, J. W., Philadelphia. Primary and secondary batteries. E-7</td>
</tr>
<tr>
<td>64.</td>
<td>Roessler &amp; Hasslacher, New York. Primary and secondary batteries. S-9</td>
</tr>
<tr>
<td>66.</td>
<td>Union Electric Works, Chicago. Primary batteries. U-16</td>
</tr>
<tr>
<td>69.</td>
<td>Webb, G. F., Cleveland, Ohio. Galvanic batteries. Y-44</td>
</tr>
</tbody>
</table>

**GROUP 125.**

Machines and Appliances for Producing Electrical Currents by Mechanical Power—Dynamical Electricity.

<table>
<thead>
<tr>
<th>Page</th>
<th>Machines and Appliances for Producing Electrical Currents by Mechanical Power—Dynamical Electricity.</th>
</tr>
</thead>
<tbody>
<tr>
<td>71.</td>
<td>Belknapp Motor Company, Portland, Me. Direct current dynamos, constant E. M. F. E-2 765</td>
</tr>
</tbody>
</table>
a. Direct constant current dynamos—E. M. F. L-6-7 and Dept. F 765  
b. Direct current varying dynamos—E. M. F. 766  
c. Alternating current dynamos—constant E. M. F. 767 For exhibit see page 673 |
| 74.  | Commercial Electric Company, Indianapolis, Ind. Direct current dynamos, constant E. M. F. F-4 765 |
| 76.  | Eddy Electric Manufacturing Company, Windsor, Conn. Direct current dynamos, constant E. M. F. B-3 765 For exhibit see page 672 |
| 78.  | Elwell-Parker Electric Construction Co. (of America) Chicago.  
a. Direct dynamos. E-3 763  
b. Alternating dynamos. 767 |
| 81.  | Ford-Washburn Storelectro Co., Cleveland, Ohio. Direct current dynamos. U-15 765 For exhibit see page 1003 |
82. Fort Wayne Electric Co., Fort Wayne, Ind. M-3
   a. Railroad and power generators. 765
   b. Arc dynamos. 766
   c. Alternating dynamos. 767
   For exhibit see pages 498 and 645.
   a. Direct current dynamos. C-1; H-20;
      J-1; N-4; O-3; P.P. Dept. F; PH.
   b. Intramural Railway; Battle ship. 765
   c. Alternating current dynamos. 766
   B-4; PP. Dept. F 766
   d. Alternating current dynamos. 767
5-1; N-1 767
   c. Alternating current dynamos. 767
   C-1; N-1 768

   a. Direct current dynamos, constant
      E. M. F. 765
   b. Direct current dynamos, varying
      E. M. F. 766
   c. Alternating current dynamos, constant
      E. M. F. 767
85. Hanson & VanWinkle Co., Chicago.
   a. Direct current dynamos, constant
      E. M. F. 765
   b. Direct current dynamos, varying
      E. M. F. 766
   a. Direct dynamos. O-4 765
   b. Alternating dynamos. 767
87. Jenny Electric Motor Co., Indianapolis, Ind. Direct current dynamos. L-2 765
   Compound wound power generators and direct current dynamos. M-12 765
89. National Carbon Co., Cleveland, Ohio.
   Dynamo carbon brushes. R-7-b 765
90. Pratt Electro Medical Supply Company, Chicago.
   a. Direct current dynamos—constant
      E. M. F. U-11-a 765
   b. Direct current dynamos—varying E.
      M. F. 766
91. Queen, J. W., Philadelphia. Cradle
   dynamo meters. E-7 766
92. Short Electric Railway Co., Cleveland.
   O. Street railway motors. L-6-7 765
   Direct current dynamos, varying E. M. F. P-2, Dept. F 766
   Alternating current dynamos. O-2 767
95. Wagner Electric Manufacturing Company, St. Louis.
   a. Direct current dynamos—constant
      E. M. F. A-7 765
   b. Direct current dynamos—varying E.
      M. F. 766
   c. Alternating current dynamos—constant
      E. M. F. 767
   d. Alternating current dynamos—varying
      E. M. F. 768
96. Western Electric Co., Chicago.
   a. Direct dynamos. A-485 765
   b. Alternating dynamos. 767
97. Westinghouse Electric Mfg. Co.,
   Pittsburg, Pa. Dept. F
   a. Direct dynamos. 766
   b. Alternating dynamos. 768
   c. Alternating current dynamos. 767

98. White, S. S., Dental Manufacturing
   Company, Philadelphia.
   a. Direct current dynamos, varying
      E. M. F. U-27 766
   b. Alternating current dynamos, constant
      E. M. F. 767
   Direct current dynamos. P-10 765-766
100. Zucker & Levett Chemical Co., New
    York. Direct current dynamos. F-2 765

GROUP 126.
Transmission and Regulation of the Elec-
trical Current.
101. Ansonia Electric Co., Chicago. Cables,
    wires, switches, etc. Z-1 769
102. Anthony Electric Instrument Com-
    pany, Chicago. Indicators and registering
    meters. M-1 & 2 769
    T-2 769
   For exhibit see page 687.
104. Brush Electric Company, The, Cleve-
    land, O. Ohio. Dials and ammeters.
    Dept. F 769
    a. Switches, rheostats and electric sup-
       plies. L-6-7 769
    b. Arresters, insulators and safety ap-
       pliances. 770
   For exhibit see page 673.
106. Carpenter Enamel Rheostat Co.,
    Bridgeport, Conn. Rheostats. R-6 769
107. Celluloid Zapon Co., New York. Cel-
    luloid for insulation purposes. L-4 769
    a. Wires; lead cables. U-8 769
    b. Switches, insulators, etc. 770
    c. Conducts; tubing. 771
    Ocean cable operating apparatus. Y-2 769
110. Chicago Electric Wire Company of
    Wilmington, Wilmington, Del.
    a. Electrical supplies. T-15 769
    b. Interior and other conduits. 771
111. Curtis Electric Manufacturing Com-
    pany, Jersey City, N. J.
    a. Rheostats. F-7 769
    b. Safety and protective appliances. 770
112. Cutter, Geo., Chicago.
    a. Rheostats; switches. T-3 769
    b. Insulators; cut-outs. 770
113. Cutter Electric & Mfg Co., Phila-
    delphia, Pa. Push and key electric
    switch. Z-1 769
114. C. & C. Electric Motor Co., New
    York. Cables; wires; rheostats; switches; meters.
    A-2 769
    Conduits. P-1 771
    a. Cables, wires, rheostats, switches.
       D-2 769
    b. Insulators; fusible cut-outs and safety
       switches. 770
   For exhibit see page 826.
    Safety heat appliance. T-14 770
   For exhibit see page 681.
118. Electric Selector & Signal Co., New
    York
    a. Signal indicator. U-19 769
    b. Electric light locks. 770
119. Electrical Specialty Company, Denver, Colo.
a Switch. S-21-b 769
b Cut-out. 770


a Transformers. E-3 769
b Protective appliances. 770

122. Empire China Works, Brooklyn, N. Y. Hard porcelain electrical supplies. S-19 770

123. Eureka Tempered Copper Co., North East, Pa.
a Copper for bearings. 769
b Commutators, brushes, etc. 770

124. Fere, Malcolm, de la, Minneapolis, Minn.
a Cables, wires, specialties, etc. 769
b Railroad and other safety appliances. 770

125. Fort Wayne Electric Co., Fort Wayne, Ind. M-3 & Dept. F
a Rheostats; switches; meters. 769
b Lightning arresters, etc. 770
For exhibit see pages 498 and 645.

Lightning rod with machine at work. Y-46 770

a Rheostats, switches and meters. B-4:
G-1; H-2; H-2; J-1; M-4; N-1; O-3;
PP. Dept. F; PH. Intramural Railway. Battle ship. 769
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134. Jenny Electric Motor Co., Indianapolis, Ind. Conductors, ammeters; voltmeters. L-2 766

a Insulating sheets; vulcabeston. 769
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141. Munson Lightning Conductor Co., Indianapolis, Ind. U-12
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142. Murphy, T. J., New York. Switch board. R-6 769


144. New England Butt Company, Providence, R. I. Braiders, winder and measuring machines. T-12 769
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149. Paiste, H. T., Philadelphia.
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150. ass & Seymour, Syracuse, N. Y. Cut-outs and switches. T-3 770


152. Platt, O. S., Bridgeport, Conn. Switches. U-16 769

153. Queen, J. W., Philadelphia. Meters; balances; voltmeters. E-7 769

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For exhibit see page 425.

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165. Western Electric Co., Chicago. A-4&5
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   a Cables; wires; insulation. Dept. F 769
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   a Direct constant current motors. 772
   b Direct constant M. F. motors. 773

For exhibit see page 673.


180. Curtis Electric Manufacturing Company, Jersey City, N. J. F-7
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For exhibit see page 672.


   a Direct constant E. M. F. motor. 773
   b Alternating current motors. 774


For exhibit see page 896.

185. Elwell-Parker Electric Co. (of America), Chicago.
   a Direct constant motors. E-3 772
   b E. M. F. direct constant motors. 773

   a Direct constant current motors. 772
   b Direct constant E. M. F. motors. 773
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For exhibit see page 1008.

188. Fort Wayne Electric Co., Fort Wayne, Ind.
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196. Pratt Electro Medical Supply Company, Chicago. U-11-a
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UNITED STATES.

252. Railway Equipment Co., Chicago. Trolley appliances. F-1 775
254. Rockford Electric Manufacturing Company, Rockford, Ill. Generator to generators and machinery. Z-1 776
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284. Elwell-Parker Electric Construction Co. (of America) Chicago. a Arc systems. E-3 778 b Incandescent systems. 779

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   a. Standard resistance coils and boxes; Wheatstone bridge.
   b. Standard condensers.
   c. Instruments of precision; galvanometers, etc.

GROUP 124.

GROUP 126.
   a. Instruments for producing and using statical electricity.
   b. Induction coils, terminals.

GROUP 129.
   a. Statical electricity, whips burst machine.
   b. Magnets, marine compass.

**GROUP 125.**


**GROUP 126.**

| 34. | Societe du Cable Fortin Herrmann, Paris. | Cables for telegraph and telephone. | | | |

**GROUP 128.**

| 44. | Ricaris, C. de, Paris. | Tuning and physiological phonometers. |

**GROUP 129.**


**GROUP 131.**

| 53. | Christofle et Cie, Paris. | Electric reproduction of old and precious metal works, from the originals in Versailles le Louvre, etc. |

**GROUP 132.**


**GROUP 133.**

| 60. | Dumoulin Froment et Doignon. | a) Telegraph instruments. | | |

**GROUP 134.**

| 68. | | b) Signaling apparatus. | | |
68. Direction Generale des Postes et des Telegraphes, Paris. Telephone cables. 797
   b. Switch boards, transmitting and receiving apparatus. 799
69. Meradier, E., Paris. Bi-telephone. 801
70. Mercadier et Anizan, Paris. Microphone. 800
71. Milde, C., Paris. Telephone switch boards. 799
   b. Microphones. 800
   c. Receiving telephones. 801
   d. Signaling apparatus. 802
73. Societe du cable Fortin Hermann, Paris. Telephone cables heads and joints. 797

GROUP 135.
75. Ducretet et Leyenne E., Paris. Electric musical apparatus. 809
77. Maison Brequet, Paris. Electrical apparatus. 809

GROUP 136.
78. Maison Brequet, Paris. Explosives for mines. 812

GROUP 137.

GROUP 123.
1. Allgemeine Elektrizitats Gesellschaft, Berlin. Surveying instruments and electric watches. 764
2. Aron, Prof., Berlin. Electrometers. 764
4. Hartmann & Braun, Bockenheim, Frankfort, a-M. Electrical surveying instruments. 764
5. Lessing, Dr. Albert, Nuremberg. Galvanic batteries. 763
6. Pollak, Charles, Frankfort a-M. Accumulators. 762
7. Physikalisch-Technische Reichsanstalt, Charlottenburg. Scientific apparatus. 764
8. Siemens & Halske, Berlin. Surveying instruments. 764
9. Weuste, Ch., Luisburg. Electric water-level indicator. 764

GROUP 125.
10. Allgemeine Elektrizitatsgesellschaft, Berlin. Dynamo machine and electrometers. 765

GROUP 126.
13. Felten & Guilleaume, Miilhausen a-Rh. Cables and transmitting material. 769
14. Harrach, George, Munich. Lightning rods. 770
15. Helberger, H., Munich. Cable reckoning apparatus. 769

GROUP 127.
19. Pokomy & Wittekind, Frankfort a-M. Electric motors. 773

GROUP 128.
21. Allgemeine Elektrizitats Gesellschaft, Berlin. Street cars. 775
22. Siemens & Halske, Berlin. Electric street railway. 775

GERMANY.
### GROUP 129.

23. Allgemeine Elektrizitäts Gesellschaft, Berlin. Stage lighting apparatus and arc lamps. 779
26. Daimler, Motoren Gesellschaft, Cannstatt. Illuminating wagons. 779
27. Körting & Matthiesen, Lipzig. Arc lights. 778
28. Pollak, Charles, Frankfort a-M. Mining lamps. 779
31. Siemens & Halske, Berlin. Arc lamps. 778

### GROUP 133.

34. Siemens & Halske, Berlin. Signal apparatus. 796

### GROUP 134.


### GROUP 138.

38. Pollak, Charles, Frankfort a-M. Railroad models. 819

### GROUP 138 A.

40. Lubszynski, Sigismund, Berlin. Electric engraving apparatus. c
41. Miner, Wilhelm, Arnstatt, Thuringia. Carbon for Leclanche elements. d
42. Nurnberger Beleuchtungskohlenfabrik, Doos, near Nuremberg. Carbon pencils for illumination. d
43. Schichau, F., Elbing. Steam engine connected with dynamo. b
44. Schmelger, Ch., Nuremburg. Illuminating carbon. d
45. Siemens Bros. & Co. Carbon pencils for illumination. d
GREAT BRITAIN.

GROUP 123.

GROUP 124.

GROUP 125.

GROUP 126.
   a) Switches; switchboards. 769
   b) Cut-outs; wall-plugs; rosettes.

GROUP 129.
   a) Arc electric lighting systems. 778
   b) Incandescent lighting systems and fittings. 779

GROUP 130.

GROUP 131.

GROUP 132.
    a) Printing telegraph. 790
    b) Signaling apparatus. 796
    a) Railroad signal apparatus. 796
    Telegraph apparatus. 790

GROUP 134.
    a) Telephones and telephone apparatus. 804
    b) Phonographs.
    a) Conductors. 797
    b) Switch boards. 799
    c) Transmitting apparatus. 800
    d) Receiving apparatus. 801
    e) Signaling apparatus. 802
    f) Telephones. 804
15. Homacoustic Speaking Tube Company, London. Commutator with electric signaling device. 802

GROUP 136.

GROUP 137.
18. British Government, London. Historical telegraphic apparatus dating from 1837, including the first specimen of underground work practically used; early five-needle and double-needle instruments; Cooke and Wheatstone's A B C telegraph; early forms of Wheatstone's automatic telegraph; Bain's first chemical telegraph; modern telegraphic apparatus, as used by the British Postal Telegraph Department; single needle A B C sounders and Bright's bed; British type of Delany and quadruplex apparatus; fast speed repeaters; pneumatic tube signaling instruments; telephonic switchboards and apparatus. 816

ITALY.

GROUP 126.
2. Richard Ceramic Society, Milan. Insulators. 770

GROUP 131.
3. Turati, Vittorio, Milan. Electrotyping. 784

NORWAY.

GROUP 134.

GROUP 136.
2. Aktiebolaget Hermes, Christiania
   Lighting and extinguishing apparatus. Dept. H 812
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Windsor, Conn.

Havemeyer Building, Windsor, Conn.
Monadnock Building, Chicago.

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THE building over the portal of which is written "Mining" attracts marked attention. It is the first Exposition building that has been distinctively devoted to this industry. Its walls contain the first separate and comprehensive mineral and metallurgical exhibit. It is one of the new developments and marvels of an Exposition that furnishes so many surprises and wonders. The position of this building is amidst the most beautiful of natural and architectural surroundings. It faces at the north the western and middle inland lakes and the flowers and lawns of the wooded island. It reflects on the west the gilded light of the Golden Door and the singularly handsome and unique high-color finish of the Moorish transportation ex-

on the east by the of Electricity. At the lofty and Administration seized the inspira-

the occasion and a-

ment. Upon a long by 350 feet over five and a constructed a mas-

structure, relieved

with all the sym-

sic forms and rich

known to his pro-

consisting of a

floor and a deeply ade on the gallery main fronts of the

tersected at the enormous arched high and 25 feet corners ends in surmounted by loggia ceilings are and emblemati-

massed at the prominent points of the furnace. Its architecture, of early Italian renaissance, with a slight touch of French spirit, together with the enormous and floating banners, invests the building with the animation that should characterize a great general Exposition. The interior design is of no less interest than the exterior. The roof rests upon ten great cantilever trusses so that the floor is practically unencumbered, there being only two rows of iron columns on either side. This is the first instance of the application of the cantilever system to building and the result is a structure signal
d adapted to exhibition purposes, the gain in space being quite large. The gallery 60 feet wide and 25 feet above the main floor extends entirely around the building and is well lighted by clearstory windows above. The repeated series of large arched windows along the walls and the extensive glass roof covering furnish abundance of light. The cost of the building was $250,000. It was commenced in July, 1891, and was the first building to be finished. In its construction were employed 902,000 pounds of iron, 282 carloads of lumber and three carloads of nails, while the glass in the skylight covers one and a half acres. The exhibits seen within the walls of this great building are as varied as they are attractive and interesting. Here are
presented all the precious minerals and gems, all the economic mineral and materials, all the metals as crude, as well as in the manufactured state, and all the machinery, implements and appliances—in fact everything pertaining to the arts and sciences directly or indirectly involved in the mining and metallurgical industries. Of the official classification, twenty-seven groups and one hundred and twenty-seven classes (or eighty-eight more than at the Centennial) are required to cover the exhibits that are shown on the floor of this building. The exhibit space has been laid off in regular sections so that the visitor can readily understand and follow out the installation. The wide central avenue running the length of the building, and named " Bullion Boulevard," divides the foreign exhibits on the west from the domestic exhibits to the east. The boulevard is one of the most attractive and entertaining promenades on the grounds and furnishes a scene of striking beauty. The States and foreign countries have here invested a large portion of their wealth of rare and representative mineral products and built enclosing pavilions and pagodas of symmetrical design and graceful proportions. The leading powers of Europe are on the west side of this aisle—France, Germany, Great Britain and her colonies. Mexico and Brazil have large areas at the south end, as well as Cape Colony, whose exhibit of diamond washing, sorting and polishing is here a center of attraction as it was at the last Paris Exposition. Beyond these countries, Austria, Spain, Italy, Japan, Russia, and the South and Central American countries, have spread out their mineral treasures. Upon the east side of this boulevard front artistic façades of classic columns, capitals and pediments, arched entrances and colonnades forming the structures erected by the States of this country. The north section is occupied with abundant exhibits of coal, iron, clays, building and ornamental stones, mined in the vast mineral belts of the Alleghanies and the Central Basin. In the south section predominate quartzose ores, the gold, silver and precious minerals, produced by the treasure States of the West. Many features of unusual interest are found within the courts of these States, such for instance as the geological obelisk illustrating the geology of New York, the silver statue revealing the wonderful richness of Montana, the quarter of a million dollar collection of gold nuggets from Colorado, the precious gems of North Carolina. All these, as well as other mineral products to be found within these structures, enable the visitor to gain a comprehensive conception of the boundless mineral resources of the United States. Including some three or four displays in the gallery, thirty-two States in all are in this way represented on the floor of the Mining Building. Beneath the gallery are in operation machines of every description used in and out of mines—all of the methods and appliances for sinking shafting and driving levels; pumps and engines for driving and hoisting; trams and cars for loading and unloading; huge crushers for pulverizing rock of adamant; ingenious apparatus for quarrying stone and for turning and polishing into marketable shapes; roasting and chloridizing furnaces; apparatus for refining precious metals, etc. A complete working plant in miniature, illustrating the methods of placer and hydraulic mining is also shown. The outside exhibit of well drilling machinery connected with this department is located south of Machinery Hall. Here are all rarities of apparatus employed in drilling for water, gas and oil. The tram-way connecting the outside ore-yard with the building carries material for demonstrating purposes to the mouth of the tunnel which runs across the south end of the building. Mine cars are run through the tunnel to carry the raw material at such times and to such places as it may be required. This tunnel is open to the inspection of visitors. The gallery is occupied with displays of a lighter and more technical character. At the north end one of the leading oil companies of the United States has an exhibit presenting the entire story of oil production, manufacture and distribution. Near by have been arranged a series of courts in which are grouped, according to affinity, all of the industrial and economic mineral material, such as graphites, clays, asbestos, limestones, cement, salts, sulphurs, pigments, mineral waters,
abrasives, etc. A national display of building stones in cubes of uniform size is situated at the center of the west gallery and in connection herewith are seen very interesting enlarged microscopic slides of rock sections, etc. Next to this is a departmental coal display, consisting of samples of coal from all of the principal coal mines of the country, in uniform size, upon aluminum mounts, and arranged around a large plate glass map, showing the geographic and topographic position of the contributing mines. An extensive coke plant is near by reproduced in miniature. An operating assay laboratory is open to the inspection of visitors in the room at the southeast corner, and a library and reading room of books and periodicals on mining and metallurgy is accessible to all in the room at the southwest corner. Here also the associated societies of Mining and Civil Engineers are located. Models of famous mines or special mine workings, are exhibited in the northeast corner. Almost the entire west gallery is occupied by departmental collections in metallurgy and mineralogy. These collections are displayed in cases and cabinets of uniform size and illustrate valuable and scientific mineral series, while a sequential exhibit of metal reduction samples exemplifies the processes employed in the metallurgic arts. A long row of ground glass transparencies hang before the windows and show pictorially the primitive appliances and methods used by the ancients both in mining and metallurgy. The offices of the chief and his assistants are located in the upper northwest corner of the building.
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For the purpose of indicating the location of exhibits in the Mines Building the columns extending north and south are numbered from 1 to 34, and those extending east and west are lettered from A to U. By this system each exhibit on the main floor or the gallery has a position of longitude and latitude. For example, the exhibit of Great Britain is located on the main floor at "G-16," or at that point where a line drawn from Column G would intersect with a line drawn from Column 16. The columns are plainly lettered and numbered. The location of each exhibit is indicated by a letter and a number, and exhibits in the gallery are indicated by the letter "g" following the letter and numbers.
CLASSIFICATION.

MINES AND MINING DEPARTMENT (E).

MINES, MINING AND METALLURGY.

GROUP 42.

MINERALS, ORES, NATIVE METALS, GEMS AND CRYSTALS. GEOLOGICAL SPECIMENS.

Class 290. Collections of minerals systematically arranged.
Class 291. Collections of ores and the associated minerals. Diamonds and gems, rough uncut and unmounted. Crystallography. Specimens illustrating the formations of the earth, systematically arranged.

GROUP 43.

MINERAL COMBUSTIBLES—COAL, COKE, PETROLEUM, NATURAL GAS, ETC.

Class 292. Coal—anthracite, semi-bituminous and bituminous; coal waste, "slack," coke and pressed coal.
Class 293. Asphaltite and asphaltic compounds—Uintaite, wortzilite, grahamite, albertite, bitumen, mineral tar, amber.
Class 294. Petroleum—Illuminating and lubricating oil.
Class 295. Natural gas—Methods of conveying and using.

GROUP 44.

BUILDING STONES, MARBLES, ORNAMENTAL STONES AND QUARRY PRODUCTS.

Class 296. Building stones, granites, slates, etc., rough-hewn, sawed or polished—For buildings, bridges, walls or other constructions, or for interior decoration, or for furniture. Marble, white, black or colored. Stalagmitic marbles, onyx, freicated marbles, silicified wood, agates, jaspers, porphyries, etc., used in building, decoration, statuary, monuments, vases or furniture.

GROUP 45.

GRINDING, ABRADING AND POLISHING SUBSTANCES.

Class 297. Grindstones, hones, whetstones, grinding and polishing materials, sand, quartz, garnet, crude topaz, diamond, corundum, emery in the rock and pulverized, and in assorted sizes and grades.

GROUP 46.

GRAPHITE AND ITS PRODUCTS; CLAYS AND OTHER FICTILE MATERIALS AND THEIR DIRECT PRODUCTS: ASBESTOS, ETC.

Class 298. Crude graphite, in blocks and in powder.
Class 299. Graphite and compounds for coating iron.
Class 300. Graphite lubricants.
Class 301. Electrotypers' graphite.
Class 302. For pencils, crayons, etc.
Class 303. Graphite crucibles and melting-pots.
Class 304. Clays, kaolin, silex and other materials for the manufacture of porcelain faience, and of glass, bricks, terra cotta, tiles and fire brick; various examples.
Class 305. Refractory stones for lining furnaces, sandstone, steatite, etc., and refractory furnace materials. Mica; kidney, sheet or ground.
Class 306. Bauxite clay for the manufacture of aluminum.
Class 307. Asbestos, crude and manufactured.
Class 308. Meerschaum.

GROUP 47.

LIMESTONE, CEMENTS, AND ARTIFICIAL STONE.

Class 309. Lime, cement and hydraulic cement, raw and burned, accompanied by specimens of the crude rock or material used; also artificial stone, concrete, beton. Specimens of lime mortar and mixtures, with illustrations of the processes of mixing, etc. Hydraulic and other cements.
Class 310. Beton mixtures and results, with illustrations of the processes.
Class 311. Artificial stone for building purposes, building blocks, cornices, etc. Artificial stone mixtures for pavements, walls, or ceilings.
Class 312. Asphalitic mastics and mixtures, asphaltic sand, asphaltic limestone.
Class 313. Gypsum, crude and boiled, calcareous; plasters, mastics, etc.
GROUP 48.
SALTS, SULPHUR, FERTILIZERS, PIGMENTS, MINERAL WATERS, AND MISCELLANEOUS USEFUL MINERALS AND COMPOUNDS.

Class 314. Salt from beds or from brines.
Class 315. Nitre and other nitrates.
Class 316. Sulphates, alums, and other salts.
Class 317. Sulphur and pyrites for the manufacture of sulphuric acid.
Class 318. Boracic acid and other salts; borax.
Class 319. Pigments, iron oxides, ochres, vermillion, etc.
Class 320. Mineral fertilizing substances, gypsum, phosphate of lime, marls, shells, coprolites, etc., not manufactured. (For commercial fertilizers and compounds, see Group 17.)
Class 321. Mineral waters, artesian well water (for commercial forms, as bottled and as beverages, see Group 10); natural brines, saline and alkaline efflorescences and solutions.

GROUP 49.
METALLURGY OF IRON AND STEEL, WITH THE PRODUCTS.

Class 322. Ore mixtures, fluxes, and fuels.
Class 323. Blast furnaces—stacks, stoves, blowing apparatus and arrangement.
Class 324. Pig-iron, cast-iron, and mixtures.
Class 325. Cupola furnaces.
Class 326. Direct processes—Sponge and blooming plant and apparatus.
Class 327. Puddling—Furnaces and appliances.
Class 328. Bessemer machinery—Details and arrangements.
Class 329. Basic process and apparatus.
Class 331. Crucible steel—Plant and apparatus.
Class 332. Nickel steel.
Class 333. Manganese iron and steel, chrome steel, aluminum steel, tungsten steel, other forms of steel.
Class 334. Iron and steel. Bars, rods, sheets, wire.

GROUP 50.
ALUMINUM AND ITS ALLOYS.

Class 335. Aluminum, pure and commercial; ingots, castings, bars, rods, wire, sheets, and partly manufactured.
Class 336. Aluminum alloys.
Class 337. Aluminum alloy wire and wire cloth.
Class 338. Process for the extraction of aluminum; electric reduction and results.

GROUP 51.
COPPER AND ITS ALLOYS. METALLURGY.

Class 339. Native copper, and the methods of extracting, melting and refining it.
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<td>Wilkes, John, Charlotte.</td>
<td>Gold ore.</td>
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<td>206</td>
<td>Williams, John, Maiden Station.</td>
<td>Magnetite.</td>
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<td>208</td>
<td>Williams, T. J., Rockford.</td>
<td>Magnetite.</td>
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<td>209</td>
<td>Wright, Mr., Murphy. Limonite.</td>
<td>Limonite.</td>
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<td>213</td>
<td>Young, Julius, Micaville.</td>
<td>Kyanite.</td>
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<td>214</td>
<td>Young, William, Helton.</td>
<td>Titaniferous iron ore.</td>
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**GROUP 43.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Place, Name, &amp; Company, etc.</th>
<th>Mineral(s)</th>
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</thead>
<tbody>
<tr>
<td>216</td>
<td>Egypt Coal Company, Egypt.</td>
<td>Semi-bituminous coal and coke.</td>
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**GROUP 44.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Place, Name, &amp; Company, etc.</th>
<th>Mineral(s)</th>
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<tbody>
<tr>
<td>218</td>
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<td>Serpentine.</td>
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</table>
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237. Graham, A. W., Hillsboro. Pink granite. 296
238. Graham, T., Charlotte. Hornblende, biotite-granite. 296
239. Greystone Granite Company, Greensboro. Biotite granite. 296
240. Hairston, Frank, Salisbury. Ordovician granite. 296
243. Hendricks, C., Shelby. Biotite gneiss. 296
244. Hickerson, C. N., Andrews. Steatite. 296
245. Holland & Paysour, Gastonia. Biotite granite. 296
247. Hope, C. L., Garibaldi. Biotite granite. 296
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249. Ives, Geo. N., Newbern. Shell-limestone. 296
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252. Ledbetter Bros., Rockingham. Porphyritic granite. 296
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254. Linehan, P. & Son, Greensboro. Gray sandstone. 296
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256. Linster, J., Barium Springs. Biotite gneiss. 296
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263. Ruckle, William, Sanford. Reddish brown sandstone. 296
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266. Smith, J. S., Warrenton. Biotite granite. 296
269. Wade, C. C., Queen. Roofing slate. 296
270. Wadesboro Brownstone Company, Wadesboro. Chocolate and gray sandstone. 296
271. Whitaker, S., Andrews. Blue gray marble. 296
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280. Claywill, R. T., Morganton. Massive and pulverized garnet. 297
282. Deal & Stoner, Franklin. Corundum crystals. 297
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285. Harris, T. C., Raleigh. Corundum. 297
286. Hogsd, Samuel, Elff. Corundum; corundum gravel; albite. 297
289. Hughes, Chas. W., Statesville. Pink corundum. 297
290. Lewis, W. C., Goldsboro. White quartz sand. 297
291. Lucas, H. S., Cullasaja. Topaz, corundum, corundum sand. 297
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298. Wyatt, J. T., Salisbury. Millstone grit. 297

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304. Bowser Bros., Franklin. Muscovite mica and crystals. 305
305. Bowman, David, Bakersville. Halloysite. 304
308. Cloudland Mica Company, Bakersville. Albite. 305
309. Costner, R. E., Lincolnton. Halloysite. 304
310. English, Isaac, Spruce Pine. Orthoclase; albite feldspar. 304
311. Gash, Mr., Brevard. Kaolin. 304
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322. Mt. Mitchell Mining Company, Knoxville. Muscovite and ground mica. 305
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328. Sheldon, A. H., Lincolnton. Kaolin. 304
330. Snow, George H., Raleigh. Pyrophillite. 305
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18. McClarren, J., Cogan Station. Fossil iron ore.
23. Oil Well Supply Co., Pittsburg. Oil well borings.
28. Schoenfeld, Dr. John, Reading. a Cabinet of minerals. b Ores and minerals.
30. Shafer, George, Cogan Station. Red hematite ore.

GROUP 43.
33. Atlantic Refining Co. Products from distillation of tar.
42. Hamilton Cannel Coal Co., Boyer’s. Cannel coal.
44. Kettle Creek Coal Co., Bitumen. Bituminous coal.
45. Lehigh Valley Coal Co., Lehigh. Coal.
54. Snow Shoe Mining Co., Cherry Run. Coal.

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64. Bittinger & Eberly, Hanover. Limestone.
66. Blue Valley Slate Co., Slatington. Slate. 296
68. Boyer, J. L., Columbia. Limestone. 296
70. Brockside Club, Williamsport. Black marble. 296
71. Carlucci, Frank, Scranton. Blue stone. 296
72. Carson, Thomas, Layton’s Station. Building stone. 296
74. Consolidated Stone and Mining Co., Pittsburg. Sandstone. 296
75. Corson, G. & W. H., Plymouth Meeting. Limestone. 296
76. Crown Slate Co., Portland. Slate. 296
77. Davis & Harris, Rock Point. Building stone. 296
79. Deppen, S. R., Robesonia. Limestone. 296
80. Diemer, A., Spring City. Building stone. 296
81. Dittoh, John D., Kutztown. Building stone. 296
82. Duespohl, F., Pollock. Building stone. 296
83. Eberly & Bittiger, Hanover. Limestone. 296
84. Eisenbrown, P. F., Sons & Co., Reading. Granite. 296
85. Evans, Edward W., & Co., West Bangor. Slate. 296
86. Feehey, John, Walker’s Mills. Building stone. 296
87. Fisher & Son, Perkiomenville. Building stone. 296
89. Griggs, Daniel, Montoursville. Building stone. 296
90. Gwinner, Fred, Allegheny City. Building stone. 296
91. Harris & Son, A. J. Building stone. 296
92. Hartman, Joseph & Son, New Galilee. Sandstone. 296
93. Hendricks, Winfield, Schuykill Haven. Building stone. 296
94. Hibbard, Jesse, Lima. Building stone. 296
95. Hower, F. M., Danielsville. Slate. 296
97. Imperial Slate Co., Wind Gap. Slate. 296
102. Kerr Bros., Wrightsville. Limestone. 296
103. Knauer, Davis, St. Peters. Granite. 296
105. Leathers, R. C., Mt. Eagle. Building stone. 296
106. Leiby, Isaac, Virginsville. Building stone. 296
107. Leiper & Lewis, Chester. Granite. 296
108. Lightner, Nathaniel, Gettysburg. Granite. 296
109. Lobb & Sons, William, Pen Argyll. Slate. 296
110. Mayer, Dr. J. H., Willow Street. Building stone. 296
111. McIlvain & Bro., Bellemont. Limestone. 296
112. McIlvain, George D., Bellemont. Limestone. 296
113. McKenna, D., Slatington. Slate. 296
114. McManus & Reilly, Philadelphia. Building stone. 296
115. McSpadden, J. C., Rockwood. Building stone. 296
116. McWilliams, George, Canonsburg. Building stone. 296
117. Meyer, A., Cogan House. Pencil slate. 296
118. Morris, E. S., Quarry Glen. Blue stone. 296
119. Motsch, Alban, Erie. Building stone. 296
120. National Cement Co., Pittsburg. Sandstone. 296
121. Nice, Eugene F., Philadelphia. Building stone. 296
122. Old Bangor Slate Co., Bethlehem. Pavilion of slate. 296
123. Oliver, George W., Philadelphia. Granite. 296
124. Oliver, Paul A., Oliver’s Mills. Building stone. 296
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131. Scheyer & Liess, King of Prussia. Slab of marble. 296
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134. Smith, James B., Reedsville. Limestone. 296
135. Snyder Bros., Curwensville. Sandstone. 296
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137. Spahr, H. R. Building stone. 296
138. Squires, R. S., Nicholson. Building stone. 296
140. Steuempfle, David, Williamsport. Building stone. 296
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<thead>
<tr>
<th>Number</th>
<th>Company/Location</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>143</td>
<td>Stevens, Morton, Rockhill Furnace</td>
<td>Limestone</td>
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<tr>
<td>144</td>
<td>Swatara Brownstone Co., Lebanon</td>
<td>Building stone, sandstone</td>
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<td>145</td>
<td>Taylor, David H., Freeport</td>
<td>Building stone</td>
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<tr>
<td>146</td>
<td>Tiffany, H. D., Nicholson</td>
<td>Building stone</td>
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<tr>
<td>147</td>
<td>Walker, R. J. C., Williamsport</td>
<td>Building stone, pencil slate</td>
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<td>148</td>
<td>Walker's Mills Quarry Co., Walker's Mills</td>
<td>Building stone</td>
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<tr>
<td>149</td>
<td>West, George, Picture Rock</td>
<td>Building stone</td>
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<tr>
<td>150</td>
<td>Wieland, George R., State College</td>
<td>Building stone</td>
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<td>151</td>
<td>Williams, David, Steinsville, Slate</td>
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<tr>
<td>152</td>
<td>Wissler, Benjamin, Lincoln</td>
<td>Mill stones</td>
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**GROUP 45.**

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<th>Number</th>
<th>Company/Location</th>
<th>Products</th>
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<tbody>
<tr>
<td>153</td>
<td>Abrasive Material Co., Philadelphia, Corundum</td>
<td>Abrasive material</td>
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<tr>
<td>154</td>
<td>Macklin &amp; Stevenson, McVeytown</td>
<td>Sand</td>
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<td>155</td>
<td>Page, Harlan, Philadelphia, Corundum</td>
<td>Corundum</td>
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<td>156</td>
<td>Peck, James D., Exton, Sand</td>
<td>Sand</td>
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<td>157</td>
<td>Speer White Sand Co., Pittsburg</td>
<td>Sand</td>
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**GROUP 46.**

<table>
<thead>
<tr>
<th>Number</th>
<th>Company/Location</th>
<th>Products</th>
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<tbody>
<tr>
<td>158</td>
<td>American Plumbago Mining Co., Reading</td>
<td>Graphite</td>
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<td>159</td>
<td>Bean, Mrs. M. J., Pawling P. O.</td>
<td>Sand</td>
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<tr>
<td>160</td>
<td>Beaver Falls Art Tile Co., Beaver Falls</td>
<td>Tile</td>
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<tr>
<td>161</td>
<td>Beech Creek Fire Brick Co., Beech Creek</td>
<td>Fire clay and brick</td>
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<tr>
<td>162</td>
<td>Brady's Run Fire Clay Co., West Bridgewater, Conn</td>
<td>Fire clay and brick</td>
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<tr>
<td>163</td>
<td>Brandwine Summit Kaolin and Feldspar Co., Philadelphia</td>
<td>Kaolin and Feldspar</td>
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<td>164</td>
<td>Cambria Fire Brick Co., Figert</td>
<td>Fire clay and brick</td>
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<tr>
<td>165</td>
<td>Clearfield Fire Brick Co., Clearfield</td>
<td>Fire clay and brick</td>
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<tr>
<td>166</td>
<td>Cope, Wilmer &amp; Bro., Lincoln</td>
<td>Pottery clay</td>
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<td>167</td>
<td>Crawford, Thomas, Elam</td>
<td>Fire clay and brick</td>
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<td>168</td>
<td>Dixon Woods Co., Pittsburg</td>
<td>Fire clay</td>
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<tr>
<td>169</td>
<td>Duncan, Peter S., Ore Hill</td>
<td>Sand and fire clay</td>
</tr>
<tr>
<td>170</td>
<td>Duespohl, F., Pollock</td>
<td>Fire clay</td>
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<tr>
<td>171</td>
<td>Dunlap, C. P., McVeytown</td>
<td>Sand and fire clay</td>
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<tr>
<td>172</td>
<td>Enterprise Sand Co., McVeytown</td>
<td>Sand and fire clay</td>
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<tr>
<td>173</td>
<td>Fairchance Fire Brick Co., Fair Chase</td>
<td>Fire brick</td>
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<tr>
<td>174</td>
<td>Fair Haven Fire Brick Co., Fair Haven</td>
<td>Fire clay</td>
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<tr>
<td>175</td>
<td>Fallston Fire Clay Co., Fallston</td>
<td>Fire clay</td>
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</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>Company/Location</th>
<th>Products</th>
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<tbody>
<tr>
<td>176</td>
<td>Fredericks, Munroe &amp; Co., Farrandsville</td>
<td>Clay and brick</td>
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<td>177</td>
<td>Griffin Enamede Brick Co., Kaolin and brick</td>
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<tr>
<td>178</td>
<td>Harbison &amp; Walker, Pittsburg</td>
<td>Fire clay and brick</td>
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<tr>
<td>179</td>
<td>Haws, A. J., &amp; Son, Johnstown</td>
<td>Fire clay</td>
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<tr>
<td>180</td>
<td>Jones, David, Philadelphia</td>
<td>Graphite</td>
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<tr>
<td>181</td>
<td>Lock Haven Clay Works, Lock Haven</td>
<td>Clay and brick</td>
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<tr>
<td>182</td>
<td>Macbeth, George A., Co., Pittsburg</td>
<td>Manufacture of glass</td>
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<td>183</td>
<td>Melick, Elmer E., Retort</td>
<td>Fire clay and brick</td>
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<tr>
<td>184</td>
<td>Mill Hall Brick Works, Lock Haven</td>
<td>Shale and brick</td>
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<td>185</td>
<td>Mill, B. H., Alburtis</td>
<td>Paper clay and fire sand</td>
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<tr>
<td>186</td>
<td>Moyer, A. C., &amp; Co., Altoona</td>
<td>Fire clay and brick</td>
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<tr>
<td>187</td>
<td>National Brick &amp; Tile Co., Bradford</td>
<td>Clay and brick</td>
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<tr>
<td>188</td>
<td>Peerless Brick Co., Philadelphia</td>
<td>Clay and brick</td>
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<td>189</td>
<td>Penn Plumbago Co., Pikeland</td>
<td>Graphite</td>
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<tr>
<td>190</td>
<td>Queen's Run Fire Brick Co., Lock Haven</td>
<td>Fire clay and brick</td>
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<tr>
<td>191</td>
<td>Renovo Fire Brick &amp; Clay Co., Philadelphia</td>
<td>Fire clay and products</td>
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<tr>
<td>192</td>
<td>Rhoads, William, Edge Hill</td>
<td>Fire sand and stone</td>
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<td>193</td>
<td>Riddell, C. B., Larry's Creek</td>
<td>Clay</td>
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<td>194</td>
<td>Savage Fire Brick Co., Keystone, Junction</td>
<td>Clay and brick</td>
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<td>195</td>
<td>Schwartzbaug, E., Codurus</td>
<td>Clay and pottery</td>
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<tr>
<td>196</td>
<td>Soisson, Joseph, &amp; Sons, Connelsville</td>
<td>Clay and brick</td>
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<tr>
<td>197</td>
<td>Star Encaustic Tile Co., Pittsburg</td>
<td>Tile manufacture</td>
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<td>198</td>
<td>Uniontown Firestone Co., Hopewood</td>
<td>Fire stone</td>
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<td>199</td>
<td>Welch, Gloninger &amp; Maxwell</td>
<td>Fire clay and brick</td>
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<tr>
<td>200</td>
<td>Whilidin Pottery Co., Philadelphia</td>
<td>Ceramic and pottery</td>
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<td>201</td>
<td>Williams, C. K., &amp; Co., Easton</td>
<td>a Silica, white clay</td>
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<tr>
<td>202</td>
<td>Woodland Fire Brick Co., Woodland</td>
<td>Fire clay and brick</td>
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**GROUP 47.**

<table>
<thead>
<tr>
<th>Number</th>
<th>Company/Location</th>
<th>Products</th>
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<tbody>
<tr>
<td>203</td>
<td>American Cement Co., Egypt</td>
<td>Cement</td>
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<tr>
<td>204</td>
<td>Chronister, C. R., New Oxford</td>
<td>Lime and limestone</td>
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<tr>
<td>205</td>
<td>Coplavement Co., Allentown</td>
<td>Manufacture of cement</td>
</tr>
<tr>
<td>206</td>
<td>McAtteer, H. J., Alexandria</td>
<td>Lime stone</td>
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<tr>
<td>207</td>
<td>Milroy Cement Co., Milroy</td>
<td>Manufacture of cement</td>
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#### GROUP 48.

<table>
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<tr>
<th>Number</th>
<th>Company/Individual</th>
<th>Location</th>
<th>Product</th>
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<tbody>
<tr>
<td>209.</td>
<td>Erwin, Henry, Bethlehem.</td>
<td>Mineral paints.</td>
<td>319</td>
</tr>
<tr>
<td>211.</td>
<td>Long &amp; Sor, De Long.</td>
<td>Ochres.</td>
<td>319</td>
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<tr>
<td>212.</td>
<td>Luzerne Ochre M'fg Co., Moosehead. Ochres.</td>
<td>319</td>
<td></td>
</tr>
<tr>
<td>213.</td>
<td>Nice, Eugene F., Philadelphia.</td>
<td>Ochres and pigments.</td>
<td>319</td>
</tr>
<tr>
<td>216.</td>
<td>Tate, M. C., Allenwood.</td>
<td>Mineral paints.</td>
<td>319</td>
</tr>
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#### GROUP 49.

<table>
<thead>
<tr>
<th>Number</th>
<th>Company/Individual</th>
<th>Location</th>
<th>Product</th>
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<tbody>
<tr>
<td>218.</td>
<td>Boyer, Jerome L., Reading. Iron furnace charge.</td>
<td>322</td>
<td></td>
</tr>
<tr>
<td>219.</td>
<td>Lee, R. G., Lewistown. a Furnace ore charge, etc. b Pig iron.</td>
<td>322</td>
<td></td>
</tr>
<tr>
<td>220.</td>
<td>Rockhill Iron &amp; Coal Co., Rockhill Furnace. a Furnace ore charge, slag. b Pig iron.</td>
<td>322</td>
<td></td>
</tr>
<tr>
<td>221.</td>
<td>Stevens, Morton, Rockhill Furnace. Furnace charges and products.</td>
<td>322</td>
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</tbody>
</table>

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<th>Number</th>
<th>Company/Individual</th>
<th>Location</th>
<th>Product</th>
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#### GROUP 51.

<table>
<thead>
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<th>Company/Individual</th>
<th>Location</th>
<th>Product</th>
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<tbody>
<tr>
<td>223.</td>
<td>Dobie, Charles. Copper ore.</td>
<td>340</td>
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#### GROUP 48.

<table>
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<tr>
<th>Number</th>
<th>Company/Individual</th>
<th>Location</th>
<th>Product</th>
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<tbody>
<tr>
<td>1.</td>
<td>Ashley Phosphate Co., Charleston. Phosphate.</td>
<td>320</td>
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<tr>
<td>2.</td>
<td>Bolton Mining Co., Charleston. Land phosphate rock.</td>
<td>320</td>
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<tr>
<td>5.</td>
<td>Carolina Mining Co., Beaufort. River phosphate rock.</td>
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MANILA ROPE POWER TRANSMISSIONS, FREIGHT HANDLING MACHINERY, SPECIAL MINING MACHINERY, SHAFTING, PULLEYS, GEARING, FRICTION CLUTCHES, SHEAVES, ETC.
THE ACCELERATOR

The Ideal Street Car.
A Positive Benefit to the Public.

"It is a wonder to me that in the many years of business experience, none of us have struck on the plan before."

CHAS. T. YERKES, President North Chicago Street R. R.

Crowded Platforms not a nuisance to Ladies, Passengers, Conductors, or cause of delay.

Short Stops, Big Loads, Increased Earnings, Larger Dividends, Rapid Loading and Unloading.

Equip your Road to make it Inviting and to Earn Dividends.

NO STANDING ROOM BETWEEN DOOR AND STEP ON PLATFORMS TO IMPEDER ENTRANCE AND EXIT.

BROWNELL CAR CO.
ST. LOUIS, MO., U. S. A.,

Build all styles of Street Cars.

SEE EXHIBIT IN . . . TRANSPORTATION BUILDING.
U. S. S. "OLYMPIA."

LAUNCHED NOV. 5, 1892.

Length on Gun Deck, 340 ft.
Beam, 53 ft.
Mean draught, normal, 21 ft. 6 in.
Displacement, 5,870 tons.
Indicated H. P., 13,500.

SPEED GUARANTEED, 20 KNOTS.

TRIAL EXPECTED AUG., 1893.

Four 8-in. B. L. R's. in Turrets.
Ten 5-in. B. L. R's. Superstructure.
Fourteen 6-pounder, rapid firing.
Six 1-pounder, rapid firing.
Four Gatling Guns.

SPEED EXPECTED, 21 KNOTS.

UNION: IRON: WORKS

SAN FRANCISCO, CALIFORNIA.

H. T. SCOTT, President and Treasurer.
IRVING M. SCOTT, Vice-President and General Manager.
G. W. DICKIE, Manager.
J. O'B. GUNN, Secretary.
GEO. E. AMES, Agent.

These works for the past forty years have held the leading place among the engineering establishments of the Pacific Coast. Until ten years ago the work was principally that of a general engineering business. In Mining Machinery they have always been, and still are, in the front line of progress. Much of the best machinery, both for mining and reducing ores, in the Pacific states and territories have originated in the Union Iron Works.

Since ship building was added to the business of this company, the works have expanded so that they now cover an area of twenty-three acres. Extensive wharves provide berths for vessels fitting out and undergoing repairs, with two sets of lifting shears, one of 100 tons capacity, the other of 30 tons.

Seven years ago this company opened their new hydraulic lift dock for the use of shipping in San Francisco harbor. This dock is 437 feet long, 62 feet wide in the clear, and has a lifting capacity of 4,000 tons.

Since the opening of the dock over 800 vessels have been lifted, having a gross tonnage of about 1,000,000 tons, without any accident whatever. This dock was designed by the Manager of the works, and built by the company.

The United States Government have entrusted this company with building, so far, five of the best ships in the new navy. The "Charleston," 19 knot cruiser of 3,750 tons displacement; the "San Francisco," 19 knot cruiser of 4,680 tons displacement; the armored coast defense vessel "MONTEREY," of 5,400 H. P. and 4,000 tons displacement; the "OLYMPIA," whose profile heads this page, and the battle ship "Oregon," of 8,000 H. P. and 10,500 tons displacement.

Besides this national work, passenger and freight steamers have been built for the Pacific Mail S. S. Company's China trade, the Puget Sound passenger trade, and the Pacific Coast S. S. Company's coast trade.

This is the only modern ship-building establishment on the western side of the American continent. A complete model of these works, to a scale of one-fourth inch to the foot, can be seen in Section E, Entresol floor of the Transportation Building.
DEPARTMENT G--TRANSPORTATION EXHIBITS.
(RAILWAYS, VESSELS, VEHICLES.)

The wonderful progress of the nineteenth century is due to improved methods of transportation more than to any other agency. The steamboat, the railway and modern methods of quick conveyance of persons, goods and intelligence—all had their birth in the first half of the century, and have been supplemented and improved to a marvelous degree during the latter half. It has remained for the World's Columbian Exposition to recognize fittingly this distinguishing characteristic of the age by creating a department which is devoted to transportation in all its forms. In order to give the subject a high degree of interest and the greatest educational value it is treated from a historical point of view. There is then also added to what might otherwise seem a mere dry study of machinery, even a flavor of the parison of the primitive in the earliest days come to us graven monuments of ancient epochs.

The vessels of the ancients pictorially. Exemplar are found in the racing chariots which exist, the Etruscan mummy pit, the Etruscan museum and some plaster ruins, showing wheeled vehicles. The name of these vessels, while not particularly elaborate or artistic, are well worth careful study as they are in every case from the most authentic sources.

The first attempts at navigation are well illustrated by canoes and rafts which bear many strange names, and which have been gathered from the islands of the sea; the heart of the dark continent; the rivers and lakes of the frontier regions of the Americas; and the frozen regions of the far North. Some of these, as in the case of the Jangada of Brazil and the Champan of the Magdalena river, are so large that they may be shown only on the lagoons, and the smallest dug-out is hardly larger than a good-sized chopping bowl. More picturesque forms abound in the shape of gondolas, daghsas and the high-prowed boats of Norway. The lagoons also bear upon their bosoms the three vessels forming the Columbus fleet, the famous Viking boat of Norway, and, anchored in front of the Golden Door, a Braggaza of the Adriatic flaunts its richly colored sails. Darting back and forth among these forms of other days and climes, a fleet of electric launches, silent but sure, carry the visitor through a scene of pristine Venetian beauty. Agile and skillful gondoliers dodge hither and yon. More slow and cumbersome is the
brilliant state barge, and the "Phoenix-boat" of the Japanese Commission excites surprise that the ear should have been abandoned in favor of a silent battery with stored energy.

Within the building again is found still other development in water craft. Innumerable models, accurate in every particular, illustrate the oddities of the marine construction of China, India, Ceylon, Siam and the Malay peninsula. The use of the various forms appears in pictures from original photographs made by the Exposition's own representatives in many lands. A superb Turkish caique is one of the many similar objects of interest.

The growth and present perfection and variety of the merchant marine and the navies of the nations of to-day appear graphically in the shape of hundreds of models of the finest workmanship. The great ship-builders of the world, and especially of that country which has so long ruled the sea, have vied with each other in showing the miniatures of their triumphs. The great steamship lines of the world vary this by dioramas, and other devices, for illustrating life at sea. At one point in the building there arises before the visitor the side of a great Trans-Atlantic liner—or, at least, a section of it sixty feet in length. Entering on the lower deck one may pass through the various rooms and ascend staircase after staircase for five stories, the rooms and their fittings and furnishings being identical with those of the real steamers. And then there are superb collections of sail and row boats, yachts and launches of such graceful lines and elegant finish that one lingers longingly over them and wishes his purse were something fatter.

Rising aspiringly in the southern central court is a huge steam hammer—the fac-simile of that of 125 tons, the largest in the world. It calls attention to the fact that not only the "fruits of peace," but the "peace makers" have here a place. Because naval vessels group properly with merchant marine and pleasure craft—they keep them company and bring with themselves naval armament and equipment. Recent improvements in armor plate and naval ordnance are fully shown and will bear careful scientific study. An important and fascinating portion of the marine exhibit is in the gallery floor, which is reached by elevators at frequent intervals.

These elevators are themselves exhibits of vertical transportation, and although a small fee is charged for the privilege, one should not omit an ascent to the dome of the building by means of one of the eight lifts grouped in the center. The view from the dome is superb and even entrancing. It has also a special value as a means of observing the working of the various railway and water systems within and without the grounds—a scene without a parallel. In coming down one may stop at the upper bridge and go out on the terrace surmounting the Golden Door, where in full view of the beautiful wooded island, central lagoon and the surrounding palaces rest and refreshment may be found at a charming out-of-door café.

One can not fail to note the luxurious and useful modern carriages and other wheeled vehicles, which the most celebrated makers in the world are displaying. Here and there is an "old timer" like the "deacon's one-hoss-shay." There are some which belonged to celebrated men of another day. A Lord Mayor's state coach stands out in a startling contrast with a ruder "carreta," made without metal by the untutored hands of Pueblo Indians. There is a gaudy outfit of cart and harness from Palermo, land sledges from Funchal, a calèche from Quebec and a Cuban Volante. The horse, the ox, and the ass appear in various burden bearing capacities, and harness and saddlery abound in most useful and economical forms, as well as in the elegant and even fantastic.

The human pack animal is not forgotten. The cargadores of South America, and the street carriers of the Orient form picturesque groups. Palaquins, traveling hammocks, and sedans from remote corners of the globe, and some from remote times, illustrate how one class of mankind drudges that another may ride in luxury.

Oddly contiguous to these boxes and bags on poles, rise many beautiful pa-
viliions which shelter the pets of the “wheel-men.” The bicycle exhibit is found in the beautifully lighted and readily accessible entresol. Several nations have contributed, but the American makers, both for the number and beauty of their displays, are entitled to unstinted praise.

There are choice and rare marine exhibits on the gallery floor, some beautiful dioramas and many exceedingly important engineering models, drawings and maps. The Associated Engineering Societies of Germany occupy the southern gallery with an exhibit which has cost a large amount of work and money—a very large amount when it is considered that the commercial inducement plays only a very slight part of it and that it is intended almost solely as contribution to the engineering advancement of the world.

It is a “far-cry” from the outfit with which an African explorer has pierced the jungles, to a modern “sixty mile an hour” locomotive, and the sumptuous hotels on wheels which it draws. Possibly there is no better illustration of the importance the Exposition has obtained abroad than the fact that it has drawn across the Atlantic such cumbersome articles as cars and locomotives, which can meet no sale here because they were built for and adapted to different conditions—not to mention the heavy tariff, which also blocks the way. There have been interesting exhibitions of railway machinery before, but never one of an international character. The technical student will here find plenty of material for his earnest investigation—and every one must find much of curious interest and valuable information. The large western portion of the building (called “the annex”) contains over two and one-half miles of railway tracks. Here are gathered the machinery and appliances used in constructing, maintaining and operating all forms of railways. Railway exhibits are also found to some extent on all parts of the ground floor. It should be explained that each foreign country has deemed it necessary to keep its entire transportation exhibit together in one court or place—a fact which rendered it impossible to exact and maintain a careful classification in the arrangement of exhibits.

The visitor will readily find at one place a long unbroken aisle, on one side of which he will see a complete mahogany trans-continental train of the Canadian Pacific railway, and on the other, a superb locomotive and coaches of the pattern favored in the mother country—sent by the London & North-Western Railway. Close at hand is a huge broad-guage (7 feet) locomotive, “the Lord of the Isles”—an imposing relic of a system which has now passed away. It is worth while noting that this identical locomotive formed the principal railway exhibit in the first great World’s Fair in London in 1851.

The heart of the railway exhibit is a vast historical collection, gathered with infinite pains and great expense by the Baltimore & Ohio railroad and denominated “The Railways of the World.” To the completeness of this collection the Department of Transportation Exhibits of the Exposition has contributed to a considerable extent—the idea being to make this the principal historical center. A brief description can not be given. A fairly exhaustive one would require volumes.

Next, to the south, comes the magnificent Pullman exhibit, which affords the opportunity of saying that the three finest complete trains of cars ever built are to be seen on exhibition in this department. There is in the heart of the main building a complete model of the “transportation town” of Pullman. Adjoining it is a model railway ticket office. Then come acres of cars and locomotives and their appliances. A most interesting bit of all this is a contrasting historical exhibit of the Old Colony railroad, which no one should fail to see. The impression formed by the vast collection of locomotives from a “baby elephant” to a veritable “mastodon” is worth experiencing. There are some miniature locomotives also, and some rare reminders of the first whistles which ever shrieked across western prairies.

The Imperial Commissioner for Germany has certainly met with wonderful success in his transportation exhibit. The Postal Museum of Berlin sends its
choicest models; the Prussian State railways send locomotives and cars; there is the largest portion of a great track museum from Osnabrück; an interesting variety of marine models and appliances; and in the gallery the vast and comprehensive engineering exhibit, already alluded to.

The French exhibit is especially strong in the vehicle division, but there are some exceedingly interesting railway exhibits as well, notably the locomotives which are installed in the main building.

As one passes out the southwestern corner of the main building, he comes upon an exhibit of quick-firing machine guns. Just outside the building along the southern line of the Annex is found a great exhibit by the Vanderbilt System of Railways. A beautiful building, the central portion of which is somewhat like a triumphal arch, forms the front of the exhibit looking toward the south, and the passenger department has its interesting display in one of the two rooms of the building. The historical feature is again prominent. The old locomotive "DeWitt Clinton" attached to two of the original passenger cars of the Mohawk and Hudson railroad made familiar by the well-known silhouette pictures, stands in striking contrast with the "Empire State" Fast Express, claimed to be the fastest regular train in the world, and the New York and Chicago limited train of Wagner cars.

Directly across the open court (affording here a broad entrance from the Sixty-fourth street gate) is the elegant model railway station which shelters the elaborate historical and technical exhibit of the Pennsylvania railroad, and forms the entrance to its track exhibit. Here indeed is food for the student. Four tracks are shown of the Pennsylvania standard, with underground and overhead cross-overs for passengers, signal tower, etc., and a suburban "umbrella" station on the further side. The specially constructed car which brought the great Krupp gun from the sea-cast stands here with a "quaker" gun, identical in appearance with the genuine monster.

Further south one comes upon a model railway water station, the street railway exhibition tracks with electric and other motor cars running back and forth; and if the visitor is a railway man he will want to go still further and investigate the switch and signal system of the passenger terminals which here curve into the great station.

The great exhibit of Krupp, of Essen, Germany, which is located in its own building on the lake shore, south-east of the Agricultural Building, belongs to this department also. Together with a large amount of railway material, there is a vast collection of naval and military ordnance and their concomitants. The largest gun in the world (125 tons) is a mighty magnet, drawing every visitor on the grounds to this spot. The successful transportation of this immense weight from Germany to Chicago is something those immediately concerned in may well be proud of.

After a hasty glance at the exhibits of the Transportation Exhibits Department the elegant little steamship building between the Horticultural and the Woman's Buildings may be visited; as also a number of important exhibits located in the open air at the north of the Annex.

The Transportation Exhibits Building is unique in its architecture. Its gorgeous exterior decoration and its superb golden door will identify it at once. Its location on the western bank of the central lagoon, looking upon the wooded island, brings it directly in the highway of greatest travel. Its polychromatic front bears the names of illustrious railway and marine inventors and sculptured groups idealizing the different forms of transportation. The north and south entrance are also elaborate and bear the individual statues of many of the men who brought these things to pass. A peculiar feature of the vast annex is the fact that it was found necessary to carry the Intramural Electric railway over its roof; and the Elevated railway from the city also enters the ground over it. The descent from these aerial stations is at the southwestern corner of the main building.
The main building measures 960 feet front by 250 feet deep. From this extends westward to Stone Island an enormous annex, covering about nine acres. This is one story only in height. In it may be seen the more bulky exhibits. Along the central avenue or nave the visitor may see facing each other scores of locomotive engines, highly polished, and rendering the perspective effect of the nave both exceedingly novel and striking. Add to the effect of the exhibits the architectural impression given by a long vista of richly ornamented colonnades, and it may easily be seen that the interior of the Transportation Building is one of the most impressive of the Exposition. The building is exquisitely refined and simple in architectural treatment, although very rich and elaborate in detail. In style it savor much of the Romanesque.

The main entrance consists of an immense single arch, enriched to an extraordinary degree with carvings, bas-reliefs and mural paintings, the entire feature forming a rich and beautiful, yet quiet, color climax, for it is treated in leaf, and is called the Golden Door. The remainder of the architectural composition falls into a just relation of contrast with the highly wrought entrance, and is duly quiet and modest, though very broad in treatment. It consists of a continuous arcade, with subordinated colonnade and entablature. Numerous minor entrances are from time to time pierced in the walls, and with them are grouped terraces, seats, drinking fountains and statues.

The interior of the building is treated much after the manner of a Roman basilica, with broad nave and aisles. The roof is therefore in three divisions. The middle one rises much higher than the others, and its walls are pierced to form a beautiful arched clearstory. The cupola, placed in the center of the building and rising 165 feet above the ground, is reached by elevators. The total floor space is nearly twenty acres. A seventy-five-foot transfer table traverses the annex along the western line of the main building. Railway tracks are laid in the annex at right angles to the transfer table. The heaviest locomotives and cars can be run direct from the installation track, which runs alongside the southern end of the building, upon the transfer table, which takes them to their proper tracks inside the building. The length of these tracks is such that an entire train can be shown connected as when in actual use. The annex opens into the main building in such a manner as to afford long and striking vistas down the main avenues and aisles.

The superintendent of the vehicle division was appointed September 1, 1892. His duties were the assignment of space to the exhibitors and taking entire charge of the vehicle division, which consists of all styles of wheel vehicles, bicycles, carriage and saddlery hardware. He is under the direction of the chief of the department to whom he is held responsible for the proper management of his division. The assignment of space to exhibitors was made in the month of October, which is substantially the same as the final allotments, with a few changes. This division consists of the entire north end of the Transportation Building and annex, 200 feet deep, and two-thirds of the gallery in the north end of the building. At the request of the Executive Committee of the Carriage Builders' National Association the chief of the department made it a rule that all exhibitors in this division should cover their floor space with wood carpet and protect their space from the passageways by a brass railing. This has all been complied with by the exhibitors and it presents a very elegant and uniform appearance. The chief of the department also adopted a uniform sign for all exhibitors, consisting of bevel plate glass with the background etched in gold or silver with a shaded letter. Where practical these signs are supported on mounted stands that set in the exhibitor's space. His duties during the Exposition period will be superintendent of the exhibitors and the exhibits in this division, through whom all matters connected with this department will be transacted by the exhibitors. If any matters are to be referred to the chief of the department it is expected to be done through the superintendent.

The offices of the Chief of the Department, Mr. Willard A. Smith, and his
corps of assistants, are on the entresol floor, in the front of the building looking out upon a most novel scene. They are easily reached by stairs or elevators, and in connection with them will be found the rooms which are designed as headquarters from the technical press and for railway men and manufacturers.
KEY TO INSTALLATION.

For the purpose of the installation of exhibits the Transportation Exhibits Building and Annex are divided into sections, lettered from A to Z. Section A is the north end of the Annex; Section B is the north end of the main building; Sections C and D form the central court, and E the south end of the main building. The remaining sections are in the Annex, and consist of aisles running the length of the Annex. Along each aisle is a row of posts, numbered, and the sides of the aisles are indicated as "north" and "south." Thus, an exhibit at "O-N bet. 9 and 10," is on the north side of aisle or Section O, between posts numbered 9 and 10. The sections in the main building are divided into blocks, and the two rows of columns extending the length of the building are numbered. An exhibit located at "A-S" is in Section A, Block S. An exhibit located "B-4, opp. 3," is in Section B, Block 4, opposite Column 3. These divisions and blocks appear on the plan. The entresol or gallery floor is divided into seven sections, lettered from A to G. The columns are numbered. Exhibits in the gallery are indicated by the abbreviation "Gal." An exhibit located "Gal. E-42" is in gallery, Section E, opposite or near Column 42.
### CLASSIFICATION.

#### TRANSPORTATION DEPARTMENT (G).

**TRANSPORTATION—RAILWAYS, VESSELS, VEHICLES.**

**GROUP 80.**

**RAILWAYS, RAILWAY PLANT AND EQUIPMENT.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500.</td>
<td>Railway Equipment—Locomotives for passenger and freight service. Locomotive appliances—Head lights, bells, whistles, brake valves and apparatus, etc., plans, drawings and photographs of locomotives and locomotive shops. Passenger cars—Mail, baggage and express coaches, drawing-room, parlor, dining, officers' and private cars, etc. Passenger car furnishings and appliances. Freight cars—Box, caboose, stock, horse, milk, refrigerator, and other varieties. Working cars—sweeping, ditching, wrecking, etc.; snow plows, hand, inspection, push and velocipede cars, baggage barrows and trucks. Freight car appliances of all descriptions. Plans, drawings and photographs of cars and car works.</td>
</tr>
<tr>
<td>502.</td>
<td>Railway Management—Legal department, treasury and accounting departments, passenger department. Advertising. Tickets, ticket cases, punches, baggage checks, etc. Freight department, methods of rate-making, soliciting, handling, billing, etc., plans, arrangements for dealing and housing of freight. Freight-handling machinery, track scales, apparatus for transferring grain from car to car. Traffic Associations, their objects, methods, etc.</td>
</tr>
</tbody>
</table>

**GROUP 82.**

**STREET CAR AND OTHER SHORT LINE SYSTEMS.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>505.</td>
<td>Electric railway cars. Systems of track construction, equipment and supplies for electric roads, methods of operation, appliances and furnishings.</td>
</tr>
<tr>
<td>506.</td>
<td>Cars for street railways or tramways operated by horse-power or other means of propulsion not specified. Construction. Equipment and supplies. Methods of operation.</td>
</tr>
<tr>
<td>507.</td>
<td>Elevated and underground railways. Plans, models, and maps, showing systems of construction. Systems of operation and maintenance.</td>
</tr>
</tbody>
</table>

**GROUP 82.**

**MISCELLANEOUS AND SPECIAL RAILWAYS.**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>508.</td>
<td>Mountain railways, spirals, switchbacks, rack rails and all systems for climbing inclines, ship railways, multiple speed railways (moving platforms and sidewalks), gravity roads, sliding railways, plans, profiles, drawings, photographs and models.</td>
</tr>
</tbody>
</table>
GROUP 83.

VEHICLES AND METHODS OF TRANSPORTATION ON COMMON ROADS.

Class 509.  Hand-barrows, wheel-barrows, trunk and barrel-trucks.
Class 510.  Carts, trucks, drays, farm wagons, garden truck wagons.
Class 511.  Freight wagons and other heavy wagons for special purposes, beer wagons, express
wagons, wagons for moving heavy objects, as timbers, stone, iron, etc.  Sprinkling
carts (for fire engines and ladder trucks see Group 70).
Class 512.  Large wagons for pleasure parties, picnic parties and excursions, "breaks," "barges,"
"wagonettes," etc.
Class 513.  Omnibuses, herdics, cabs, hansoms, etc.
Class 514.  Drags, Concord leather spring coaches; mud wagons for mail, express and passenger
service.
Class 515.  Pleasure carriages, coaches, Victorias, Broughams, dog carts, etc.
Class 516.  Light pleasure carriages, buggies, phaetons, etc.; trotting wagons and sulkies.
Class 517.  Sleighs, sleds, cutters, toboggans, snow shoes, etc.
Class 518.  Steam and electric carriages, and all vehicles for carrying passengers on common
roads operated by other than horse-power.
Class 519.  Ambulances for special purposes—for the sick and injured.  Hearses.
Class 520.  Bicycles, tricycles and the appurtenances.
Class 521.  Rolling chairs for invalids and others, baby carriages, etc.
Class 522.  Wagon and carriage woodwork, hardware and fittings.
Class 523.  Harness, saddlery, robes, whips and accessories of the stable.

GROUP 84.

AERIAL, PNEUMATIC AND OTHER FORMS OF TRANSPORTATION.

Class 524.  Transportation of letters and parcels in pneumatic tubes.
Class 525.  Shop-fittings for the transportation of parcels and money.
Class 526.  Balloon transportation and captive balloons for observation and experiment.
Class 527.  Passenger elevators and lifts

GROUP 85.

VESSELS, BOATS—MARINE, LAKE AND RIVER TRANSPORTATION.

Class 528.  Sailing vessels and boats.  Sailing vessels used in commerce, pilot boats, fishing ves-
sels, sailing yachts, ice boats, ship's boats, pleasure boats, canoes and small boats
of all kinds propelled by sails, oars or paddles.  Models, designs, drawings, des-
criptions, specifications, photographs, paintings, etc.
Class 529.  Steamships and all vessels propelled by steam, electricity or motive power other than
sails, oars or paddles.  Ocean steamships, coasting, lake and river steamers.
Tank steamers, cable steamers, steam pilot vessels, steam fishing vessels, steam
fire, police and patrol boats, steam schooners, tow-boats, steam yachts, steam
launches, naphtha launches; vessels designed for jet propulsion or to be propelled
by any unusual device.  Models, designs, etc.
Class 530.  Vessels, boats and floating structures for special purposes.  Docks and other recep-
tacles for vessels and structures used for docking or hauling out vessels or boats.
Transports for carrying railway trains or cars, barges, canal boats; coal rafts and
coal boxes; water boats, dredges, floating derricks, elevators, etc.  Dry docks and
marine railways.  Models, designs, drawings, etc.
Class 531.  Marine mechanical appliances.  (For nautical instruments, see Group 151.)  (For
marine engines, boilers, pumps, condensers and appurtenances, see Group 69.)
Devices for propulsion, devices for obtaining forced draft, steam capstans, wind-
lases, deck winches, appliances to facilitate loading and discharging cargoes,
steering apparatus; marine electric motors, electric indicators, engine room and
bridge signal systems and apparatus; boat-lowering and detaching apparatus,
speed indicators and speed registers, appliances for laying, picking up and repair-
ing ocean telegraph cables, etc.
Class 532.  Construction, outfit, equipment and repair of vessels.—Methods, articles, fittings or
appurtenances.  Methods and materials used; special designs for hull or fittings;
plates, cellulose, woodite, etc.; water-tight compartments, rudders, masts and spars,
rigging; anchor chains and cables; hawsers, ropes, cordage, wire rope, etc.; sails,
blocks and tackles, oars, etc.
Class 533.  Methods of lighting, heating, ventilation and refrigeration of ships.
Class 534.  Protection of life and property and communication at sea.  Harbors; light-houses;
buoys and similar aids to navigation and all pertaining thereto; life-saving ser-
vice, boats, rafts, belts, etc.; precautions against fire aboard ship and devices for
extinguishing it; storm and coast signals; marine signals.  Models, plans, sam-
pies, etc.
Class 535.  Wrecking apparatus.  Sub-marine armor and divers' appliances, pontoons for raising
vessels, equipment for wrecking-steamers, etc.
Class 536. Miscellaneous. Trophies of yacht and boat clubs, relics of merchant marine and river transportation, relics of arctic and other exploration, seamen's associations, uniforms and designations of rank, flags and ensigns of merchant marine, yacht clubs, etc., designs, maps, charts, boats.

**GROUP 86.**

**NAVAL WARFARE AND COAST DEFENSE.**

Class 537. Armored vessels. Battle-ships, rams, cruisers, coast defense ships. Models, designs, drawings, descriptions, specifications, photographs, paintings, etc.

Class 538. Unarmored vessels. Frigates, sloops and gun vessels, cruisers, dispatch vessels and tenders, torpedo vessels and torpedo boats, sub-marine boats, public vessels, for special service, revenue vessels, surveying vessels, etc. Man-of-war boats, etc. Models, designs, etc.

Class 539. Ships and boats of war of barbarous and semi-civilized nations. Models, drawings, photographs, etc.

Class 540. Models and relics of famous ships of war, relics of naval battles, etc.

Class 541. Training ships, naval schools, naval institutes, naval reserve, etc.

Class 542. Guns and armor, and adjuncts and appliances of naval warfare (see also Group 113). Guns, armor, torpedoes, small arms for naval use, projectiles and ammunition, fuses, sub-marine mines, methods, devices, fittings or appliances designed for use in naval warfare and coast defense.
Western Wheel Works
CHICAGO

MANUFACTURERS

BLACKHAWK.

JUNO.

COMB. JUNIOR.

CINCH.

OFFICE AND WORKS: Wells, Schiller and Sigel Streets, CHICAGO.
Department G.--Transportation--Railways, Vessels, Vehicles.

UNITED STATES.

GROUP 80.

Railways, Railway Plant and Equipment.

2. Adams, Frederick U., Chicago. Model of engine, tender and cars. M-N-10 500
4. Alexander, R. E., Forest City, Pa. a Railroad tie. X-N-10 & 11 499
   b Car replacer. 500
10. American Car, Truck and Supply Co., Chicago. a High speed hand drill. 499
    b Trucks; coupler; bearings; springs. 500
12. American Steel Wheel Co., Garford, N. Y. Steel car wheels. J-bet. 3-4 500
22. Bass Foundry & Machine Works, Fort Wayne, Ind. a Car wheels, car and engine castings. L-S-3 500
    b Electric motor forgings. 505
For exhibit see page —.
25. Bird, F. W., & Son, East Walpole, Waterproof fabrics for roofing railway cars, etc. M-N-7 & 8 500
34. Brown's M. C. B., Emergency Link Car Coupler Company. Coupler on tracks. P-S-3 500
35. Buckeye Automatic Car Coupler Company, Columbus, Ohio. Car coupler. P-S-3 500
36. Bucyrus Steam Shovel & Dredge Co.,
Bucyrus, Ohio. Shovels; buckets, models and photos.
W-N-4 498

37. Burnham & Duggan Railway Appliance
Company, Boston. Switches, chairs, etc.
W-N-3-4 499

K-N-3, 8&4 500

Horse and cattle cars. O-N-13-15 500

Y-S-9-10 499

41. Butler Drawbar Attachment Company,
Cleveland, Ohio. Drawbar attachments.
O-S-10&11 500

For exhibit see page 824.

42. Campbell, Joseph H., Chicago. X-N-9
a Rail joints and chairs. 499
b Side bearings. 500

43. Canda Cattle Car Company, Chicago.
Stock car. O-N-11-12 500

44. Canda Manufacturing Company, Car-
taret, N. J. Chilled wheels.
O-N-10-11 500

Frogs, switches, crossings, switch stands and track appliances. WS. 8&9 499

46. Chapman Jack Company, Cleveland, O. Jack screws. O-S-10 500

For exhibit see page 824.

47. Chicago Car Seal & Manufacturing Co., Chicago. Car seals, locks, dies, tags, etc.
P-S-4 500

M-N-12 500

MN 13-14 500


For exhibit see page 641.

Y-N-4 500

51. Chicago Scale Co., Chicago. Rail-
road track scale, 60 tons. M-N-9 502

52. Clark, A. H., Company, Chicago.
Automatic piston packings. 1-S-5 500

53. Clark, E. Warren, Columbia, Tenn.
a Exhibit car. NN, 6 to 7 500
b Locomotive, The "General," captured by "Andrews" Raiders. 503

54. Clarke, F. H., Springfield, Ohio
Safety spring steel car wheel tender.
O-N-5 500

55. Cleveland Frog & Crossing Co.,
Cleveland, Ohio. Switches, crossings and frogs.
K-N-8 499

56. Coale Muffler & Safety Valve Co.,
Baltimore Locomotive and steam boiler specialties.
N-N-3-4 500

57. Coburn Trolley Track Manufacturing
K-N-11 500

58. Consolidated Car Heating Company,
Albany, N. Y. Car heating and lighting appliances.
U-S-1 500

59. Cooke Locomotive & Machine Co.,
Paterson, N. J. Freight and passenger locomotives.
K-N-15-18 500

Metallic weather shield for cars. P-N-6 500

Air brakes and material.
X-N-4 500

For exhibit see page 486.

63. Crane, Joseph J., Summertown, Tenn.
Model of cross tie and securing plate.
X-N-4 499

64. Cregier, Dewitt C., Jr., Chicago. Electric
signal. N-S-3 500

65. Culp Wahl M'tg Co., Columbus, Ohio.
Semaphore. Y-N 500

66. Cumberland Valley Railroad Company,
Chambersburg, Penn. Relief map of Cumberland Valley.
D-S-16 500

67. Cushion Car Wheel Company, Indian-
apolis, Ind. Car and locomotive wheels and truck.
K-N-3 500

68. Deitz, Geo. A., Olden, Mo. Car door,
seal lock, etc. M-N-18 500


M-N-16-17 499

71. Detroit Steel & Spring Co., Detroit, Mich. Locomotive, driving trucks, tender counterbalance, connection and tender springs. 1-S-12-18 & N-11-18 500

72. Dickson Car Wheel Co., Houston, Tex. Car wheels. HN. 3&4 500

73. Drexel Railway Supply Company, Chicago.
a Drills. O-N-1 499
b Car couplers, journal box covers, car relapers, etc. P-S-1 500

74. Duff Manufacturing Company, Alle-
gany, Pa. Compound lever jacks.
(Outside of Annex) 501

75. Eastman Freight Car Heater Com-
pany, Boston. Refrigerator, heater and ventilator cars.
P-S-12-18 500

76. Eclipse Wind Engine Company, Be-
loit, Wis.
a Railroad water station; track tools.
(Outside north of Annex) 499
b Water feeding frog. 501

77. Elliott Car Company, Gadsden, Ala.
Freight car. O-S-15 500

78. Ensign Manufacturing Company,
Huntington W, Va. O-N-6-10
a Fiat, gondola and cattle cars; car wheels, axles, snow plow, etc. 500
b Car wheel grinding machine and chills. 501

79. Eureka Coupler & Buffer Co., Minne-
apolis, Minn.
a Rail joint. MS. 13 499
b Steel coupler. 500

80. Ewald Iron Company, St. Louis.
Boiler heads; fire-box material. H-N-3-4 500

81. Fairbanks, W. & T., Co., St. John-
eshury, Vt. Railroad track scale.
(Outside north of Annex) 502

For exhibit see page 769.

82. Fisher, Clark, Trenton, N. J. Rail joints and track jacks.
W-N-6 499

83. Fox Solid Pressed Steel Co., Chicago.
Flat car. O-S-4 501

84. Frame, Nathan T., Jamestown, Ohio.
a Railroad rail chairs. X-N-9 499
b Car couplers. 500

85. Frank Brady, Chicago. Railroad tricycle.
X-N-8 500
UNITED STATES.

   a Nut lock and washers. 499
   b Elliptic and spiral springs. 500

87. Prosts Veneer Seating Company, New York. D-8-16
   a Car ceilings and seats. 500
   b Settees, etc., for depots; panels. 501

88. General Electric Company, New York. a Transfer table motors and controllers in service, etc. Dept. G
   b Plans and models of railway structure. Dept. G 499
   c Electric locomotives. Dept. G 500
   d System of stops and signals (in service Intramural Railway). 501
   e System of tickets. (Depot, Intramural Railway.) 502


90. Gold Car Heating Company, N. Y. Car heating apparatus. U-S-7 500


93. Gould, Wm. F., Des Moines, Ia. a Supplies for railway tracks. W-N-8 and 9 499
   b Slide valve for steam engines. 500


   a Railroad station seats. 499
   b Railroad car seats, seat springs, folding beds. 500

98. Harlan & Hollingsworth Co., Wilmington, Del. Railway passenger car equipment. O-S-8 500

99. Harvey Steel Car & Repair Works, Harvey, Ill. Gondola box, freight and cab tank cars. O-S-7 & 500

100. Heinze, Herman, Chicago. Wall map. D-4-16 503


102. Hinson Car Coupler Co., Chicago, Ill. Automatic car coupler. MS. Bet. 18 & 14 500


104. Howlett, James, Irvington, N. J. Car seals and attachments. N-N-4 500


106a. Illinois Central Railroad Co., Chicago. Locomotive (Mississippi) and tender, built in 1863 and strap rails on timbers. M-N-14 503


108. Invincible Car Coupler Company, Des Moines, Ia. Mounted car couplers. P-S-3 500


110. Jackson & Wooden, Berwick, Pa. Freight car trucks. C-1 500

111. Jerome, C. C., Chicago. Packing glands, fittings and supplies. O-S-3 500

112. Jervis Spencer Co., Baltimore, Md. Curtain roller for windows of railway cars. KN & X-S 500

113. Jewett Supply Company, Boston. Car body and truck bolsters; anti-friction device; elevated railway. O-N-3 and Intramural railway 500

114. Johnson R. R. Signal Company, Rail- way, N. J. Grade crossing signal. C-6-8 500


116. Jull Manufacturing Company, Brook- lyn, N. Y. Snow excavator M-S-10 500

   a Steel surface cattle guard. 499
   b Velocipede cars; wheels. 500


122. King Bridge Company, of Cleveland, O. Photographs of metal bridges and structural work. H-N&X-11 499

123. King, Charles B., Detroit, Mich., Iron brake beams. P-S-7 500

124. Krehbiel Palace Car Company, Cleveland, Ohio. Parlor, chair and sleeping coaches. P-N-12 500

125. Lehigh Valley R. R. Co., South Beth- lehem, Pa. Passenger engine, coach, box and coal car; section of track. 499


129. Live Poultry Transportation Company, Chicago. Live poultry car. O-S-16 500

130. Marion Steam Shovel Company, Mar- ion, Ohio. Steam shovel, hoisting machinery and ballast unloader. W-N&X-S 499


133. McAndrews, James, Chicago. Journal barrels, locomotive bells, etc. P-S-3 500
136. McGuire Manufacturing Company, Chicago. L-S-12&15
   a Door for grain freight car. 500
   b Automatic switch stand. 501
137. McKee, Fuller & Co., Catsauga, Pa. Steel tired wheels. I-N-3-4 500
   For exhibit see page 878.
140. Merchants Dispatch Transportation Company, New York. Refrigerator car. P-S-5-6 500
143. Mertshamer, F. Frederick, Cheyenne, Wyo. Car movers. N-S-3 501
152. National Malleable Castings Company, Cleveland, Ohio. Freight car, couplers and castings. O-S-10 500
   For exhibit see page 775.
157. Nevens Flanger Company, Portland, Me. Box car with flange scraper. I-N-10 500
158. New Jersey Steel & Iron Co., Trenton, N. J. Models of railroad bridges; iron and steel construction materials. YN. 5&8 499
160. New York Car Wheel Works, Buffalo, N. Y. H-N-3
   a Car wheels and axles. 500
   b Testing apparatus and machinery for treating chilled articles. I-S-3 501
   a Section of the road-bed and track, with views, N. Y. Cen. Ry. Building, south of annex. 499
   b Motive power and rolling stock. 500
   For exhibit see page 825.
163. Northern Pacific Railroad Company, St. Paul, Minn. Cars for exhibit of natural products. P-N-7 500
164. North-Western Equipment Company, Chicago. Brake cars, door cars and journal box lid. X-N-7 500
166. Norton, A. O., Boston. U-S-3
   a Track jacks. 499
   b Screw jacks. 501
169. O'Hara, J. H., Chicago. Air brakes. Z-3 500
   a Passenger locomotive, coach and coal car. 500
   b Locomotive built in 1858; passenger coach built in 1895. 503
171. Paige Car Wheel Company, Cleveland, Ohio. Car, engine and tender wheels. M-N, N-S, bet. 3&4 500
172. Parker, James N., Elkhart, Ind. Block system of signals. G-N-1 499
173. Parks, C. Wellman, Troy, N. Y. Model of track construction. M-N-4 499
174. Peoria Steel & Iron Co., Peoria, Ill. Nuts, bolts, etc. C-2-8 499
   a Refrigerator, stock, freight and passenger cars. N-S-12 500
   b Suburban station with foot-bridge, etc. Penn. Ry. Bldg. 501
180. Pope, J. L., Cleveland, Ohio. Rail joints, steel ties, tackle-blocks and elevated railway material. YN. 5&8 499
182. Pratt & Letchworth, Buffalo, N. Y. Car couplers, brake adjusters and railway castings. Y-S-1 500
183. Pratt-Rawlins Railway Appliances Company, Philadelphia. Metallic ties; rail joints; arcade system; tie fastenings. W-S-5-7 499
185. Pullman Palace Car Company, Chicago a Complete vestibule train.  W-N-8 500
   b Passenger coaches, locomotives, etc.  Q-N 500
   c Model of town of Pullman, Ill. D-8-503
186. Ramapo Wheel & Foundry Co., Ramapo, N. Y. Boltless steel tired wheels.  KN. 15-18; C-1. Q-N-8-450
187. Rand McNally & Co., Chicago. Ticket cases, tickets, punches, baggage checks, maps, etc.  D-8-14 502
188. Reese, Henry, Baltimore. Metallic cross-tie.  W-N-8 499
189. Re-enforced Rail Joint Company, Boston. Rail-joints.  W-N-8 499
190. Rhode Island Locomotive Works, Providence, R. I. Locomotives and tenders.  H-N-4-10 500
194. Rogers Locomotive Company, Paterson, N. J. Passenger and freight locomotive engines. H-N-12-1 500
195. Romney, Mrs. Caroline W., Chicago. cartoon stove for cars. C-N-9 500
196. Rowell-Potter Safety Stop Company, Boston. Safety stop and block signal system. Intramural Ry. 501
197. Russell Wheel & Foundry Co., Detroit, Mich. Logging cars. L-S-10 500
199. Safford Automatic Draw Bar Co., Chicago. Automatic link and pin draw bars and models. MS. 18x14 500
201. Saunders, E., Austin, Texas. Metallic railroad tie. W-N-6 499
203. Schenectady Locomotive Works, Schenectady, N. Y. Locomotives and model. H-S-12-18 500
   a Railroad ties.  499
   b Pressed steel articles for cars.  500
208. Shrague, J. W., Cincinnati, Ohio. Diagram and plan of state-room sleeping car, portable live stock stall. M-N-8 500
213. Standard Steel Works, Philadelphia. Steel tires; wrought-iron wheel centers. Dept. E 500
214. Stannard & White, Appleton, Wis. Locomotive engineers' cab seats. O-S-3 500
216. Sternbergh, J. H., & Son, Reading, Pa. Track bolts, rivets, etc. X-N-11 499
218. Stimson, A. C., Kendall Creek, Pa. Roller bearings, shaftings, etc. H-N; I-S-2 500
221. Tilden, B. E., Company, Chicago. Wrecking frogs and bridge guards. X-N-9 499
222. Trojan Car Coupler Company, Troy, N. Y. Car couplers. O-N-3 500
224. Union Bridge Company, New York. Photographs of bridges and model of bridge; eye-bar tests. D-4-16 499
225. United States Car Company, Anniston, Ala. H-N-3-4
   a Samples of fractured and bent iron; car axles.  500
   b Interlocked shunting. H-N-3 501

236. Waddell, J. A. L., Kansas City, Mo. Drawing of lift-truck. D-8 499


238. Wakefield Rattan Company, Chicago. Railroad car seats. D-7-18 500


240. Weeks, George, Oakland, Cal. Models railway rail joints and rail couplings. Z-3 499

241. Wellman Iron & Steel Co., Thurlow, Pa. A. Bridge plates. 499
   b Steel plates for locomotive boilers. 501

242. Western Wheel Scrapper Company, Aurora, Ill. Scrapers, road machines, etc. Y-N-X-Z-1 499


244. Wheeler, Harris A., Chicago. Car seats and chairs. D-8-17 500

245. Wheeler, Phillip, Branchport, N. Y. Rail-road tie and chair. W-N-8 499


248. Wuerpel Switch & Signal Co., St. Terminal Railroad. A. Wrecking car. 500
   b Interlocking device and signals. 501

249. Yale & Towne Mfg Co., Stamford, Conn. Locomotive crane. X-S-10 500

250. Young Reversible Lock Nut Company, N. Y. Rail joint with locks. W-N-7 499

GROUP 51.

Street Car and Other Short Line Systems.

251. Anderson, Albert, & J. M., Boston. Electric railway; switches; fixtures. L-N-4 505


For exhibit see pages 360 and 361.

254. Bemis Car Box Company, Springfield, Mass. Truck. 505


256. Brownell Car Company, St. Louis. Street car and appliances. L-S-9 505

For exhibit see page 777.


257. Burrows Car Shade Company, Portland, Me. Shades and curtains for electric cars. K-N-bet. 3&4 505


260. Columbian Intramural Railway, World's Fair elevated electric railway. World's Fair grounds. 507


263. Duplex Street Railway Track Company, New York. Ex. track and track material. K-N-3-4 506

264. Elevated Suspension Electric Railway Company, Chicago. Model of electric suspension railway. A-146-aisle 506

265. Frost's Veneer Seating Company, New York. Street car seats and backs. D-8-10 506

   b Intramural elevated electric railway (in service on the grounds). 507


   a Seats for cable cars. 504
   b Seats for electric cars. 505
   c Seats for horse cars. 506
   d Seats for elevated and suburban cars. 507

270. Hallidie, A. S., San Francisco. Dummy used on first cable road and section of road-bed; grip and pulleys and model of rope way. L-N-17 504


274. Jones, J. M., Sons, West Troy, N. Y. Street railway cars. L-S-2 505

275. Lamolin Car Works, Philadelphia. Cars; folding car gates, etc. L-N-9-10 506

276. Ludlow, Geo. M., Elgin, Ill. Model of electric car and track. O-N-17 505

277. McAndrews, James, Chicago, Street car castings and gongs. P-5-3 506


279. Murray, Jasper, Cleveland, O. Street car brake. L-S-bet-10-11 506


281. Norton, A. O., Boston. Jacks for street and electric cars. L-S-3 505


283. Peckham Motor Truck & Wheel Co., Kingston, N. Y. Motor truck and wheels, etc. L-S-16 505
284. Porter Tramway Switch Company. Cleveland, O. Railway switch, tracks and motor. L-S-12 505


286. Pullman's Palace Car Company, Chicago. Street cars. 2-9 506

287. Reliable Manufacturing Company, Boston. Street railway supplies, heater, etc. L-N-15 505


290. Standard Railway Supply Company, Chicago. Street car stoves and specialties. L-N-6 506

291. Stephenson, John, New York. L-S-4-6
   a Cable car. 504
   b Electric car, tracks and apparatus. Ex. tracks. 506
   c Picture of first street car, built in 1831. 506

292. St. Louis Car Wheel Company, St. Louis. Street car wheels. I-S-3 506

293. Suspension Transportation Company, Boston. Elevated electric system of transportation. In service, Dept G 506

294. Taylor Electric Truck Company, Troy, N. Y. Motor trucks for electric cable railways. L-S-18 504 & 505


296. Trenton Iron Company, Trenton, N. J.
   a Wire ropes and cables Y-Z 4-5 504
   b Underground haulage appliances. 507

297. Valley, John N., Jersey City, N. J. Model of elevated railway track. W-S-12 507


299. Whitney, A., & Sons Car Wheel Works, Philadelphia. Boxes and pedestals for street cars. 506

300. Wharton, Wm., Jr., & Co., Philadelphia. Track material. L-S-3 506

GROUP 82.

Miscellaneous and Special Railways.


GROUP 83.

Vehicles and Methods of Transportation on Common Roads.


308. American Cycle Co., The, Chicago. Bicycles, etc. P gal. 14 520


310. Anchor Buggy Co., Cincinnati. Light pleasure vehicles. B-1 516


313. Atwood, A. H., Chicago. Carriage lamps, harness mountings. B gal. 522


   a Dump cart and wagon. 510
   b Road grader, roller, street sweeper and wagon loader. 511

   a Farm wagon. 510
   b Village cart. 516


   a Buggy and phaeton. 516
   b Harness and saddlery goods. B gal. 523


326. Black, Alexander, Toledo, Ohio. Air catcher. P-5 510


328. Bowman & Allen, Dayton, O. Tobacco wagon. A-10 511


   b Light pleasure vehicles. 516


336. Buckeye Buggy Co., Columbus, Ohio. Light pleasure vehicles. 516


338. Buffalo Spring & Gear Co., Buffalo, N. Y. Vehicles in the white. A-12 516
TRANSPORTATION.


340. Bradley Chainless Bicycle Co., Albany, N. Y. Bicycles, etc. A gal. 520


For exhibit see page 687.


346a. Chicago Trace Holder Co., Trace holders. A gal. 4 522


348. Clark, A. H., Company, Chicago. Bicycles. A gal. 1 520

349. Clarkson, J. T., & Co., Amesbury, Mass. Pleasure carriages B-7 515

350. Cleveland Hardware Co., Cleveland, Ohio. Wagon and carriage hardware. B gal. 522

351. Coburn Whip Co., Windsor, N. Y. Whips. B gal. 7 523


354. Columbia Cab Co., Decatur, Ill. Baby carriages, stoles. B gal. 9 521

355. Columbus Buggy Co., Columbus, Ohio. Light pleasure vehicles. B-5 516


358. Cork Faced Collar Co., Lincoln, Ill. Horse collars. B gal. 6 520


361. Cunningham, Jas., Son & Co., Rochester, N. Y. B-5 516

a Pleasure carriages. 515
b Hearses. 519


364. Curley, John, Brooklyn, N. Y. B-4 516
a Pleasure carriages. 515
b Buggy. 516


367. Dark, Thos. & Sons, Buffalo, N. Y. Garbage wagon. A-7 511


371. Derby Cycle Co., Chicago. Bicycles and parts. F gal. 2 520


373. Doughie, J. T., Chicago. Wagon and truck. A-3 510


a Carriage and wagon hardware. 522
b Saddlery hardware. 523

378. Eibel & Co., Canton, Ohio. Saddlery hardware. A gal. 523


b Milk wagon. 511
c Wagonette. 512
d Light pleasure vehicles. 516
e Harness. 523

For exhibit see page 821


381. Empire Cross Spring Co., Janesville, Wis. Large pleasure wagons. A-4 512


386. Ferguson, James O., Greenwich. Thill coupling. B gal. 522


a Lumber gear. 510
b Heavy wagons. 511


a Pleasure carriages. 515
b Wagon. 516


393. Freeand & Bradley, Wellsville, N. Y. Carriage poles. A-14 522


397. Gallup, S. C., & Frazier, Pueblo, Col. Saddles; cow boys' leather overalls. A gal. 523

398. Ganard, Henry H., Cleveland, Ohio. Pneumatic tire trotting sulky. B-9 516

399. Gellhaus, Nielsen & Pamp, Philadelphia. Snow and ice velocipede A gal. 520
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<tr>
<td>451.</td>
<td>Kent, S. W., Meriden, Conn. Horse-ice calls.</td>
<td></td>
<td>523</td>
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<td>452.</td>
<td>B gal. 5</td>
<td></td>
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<tr>
<td>453.</td>
<td>Kilbourne &amp; Jacobs Manufacturing Co., Columbus, O.</td>
<td></td>
<td>509</td>
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<tr>
<td>454.</td>
<td>a Trucks.</td>
<td></td>
<td>509</td>
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<tr>
<td>455.</td>
<td>Wheelbarrows.</td>
<td></td>
<td></td>
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<tr>
<td>457.</td>
<td>a Pleasure carriages.</td>
<td></td>
<td>516</td>
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<tr>
<td>458.</td>
<td>b Light pleasure vehicles.</td>
<td></td>
<td>516</td>
</tr>
<tr>
<td>459.</td>
<td>a Wagon, trucks.</td>
<td></td>
<td>510</td>
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<tr>
<td>460.</td>
<td>b Buggy.</td>
<td></td>
<td>516</td>
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<td>462.</td>
<td>A-7</td>
<td></td>
<td></td>
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<tr>
<td>463.</td>
<td>Miller, John A., St. Louis. Wrenches, ratchet drills.</td>
<td></td>
<td>522</td>
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<tr>
<td>464.</td>
<td>A-8</td>
<td></td>
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<tr>
<td>466.</td>
<td>a Pleasure carriages.</td>
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<tr>
<td>467.</td>
<td>b Light pleasure vehicles.</td>
<td></td>
<td></td>
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<tr>
<td>468.</td>
<td>a Wagons, trucks.</td>
<td></td>
<td>510</td>
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<tr>
<td>469.</td>
<td>b Buggy.</td>
<td></td>
<td>516</td>
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<tr>
<td>470.</td>
<td>Miller-Knoblock Wagon Co., South Bend, Ind. Heavy trucks.</td>
<td></td>
<td>510</td>
</tr>
<tr>
<td>471.</td>
<td>a Street sprinkling wagons, beer wagons.</td>
<td></td>
<td>511</td>
</tr>
</tbody>
</table>
460a. Mitchell & Lewis Co., Racine, Wis.  
   a Farm wagons.  A-6  510  
   b Express wagons.  514  
   c Light pleasure vehicles.  516  

   Steel springs.  A gal.  522  

   a Farm wagons.  510  
   b Express wagons.  514  
   c Spring wagons.  516  

   Bicycles.  F gal. 21  520  

464. Moore, L. Murray, Rochester, N.Y.  
   Trucks, truck baskets, etc.  A-12  509  

   Traps. B-7  516  

466. Motts, Geo., Washington, D.C.  
   Harness. A gal.  553  

   Light pleasure vehicles B-7  516  

468. Neder & Cleland, Salt Lake City, Utah. Unpainted phaeton. B-9  516  

   Pleasure carriages.  515  

   Dog sled, harness and outfit complete for journey. Lower Yukon River. Sea coast sled, outfit complete, Morton Sound. Collected for the Expidition. 517  


   Farm wagons. A-10  510  


475. O'Hara, John H., Chicago.  
   Hollow couplings. B gal.  592  

476. Ohio Spiral Spring Buggy Co., Cincinnati.  
   Light pleasure vehicles. A-1  516  

477. Ohi, Geo. D., Milwaukee, Wis.  
   Horse collar. A gal.  523  

478. Ortmyer, A., & Son, Chicago.  
   Saddlebreds. A gal.  593  

479. Overman Carriage Co., Cincinnati.  
   Buckboard. A-2  516  

   Bicycles. F gal. 10  520  

   Brougham. B gal.  515  

   Break and wagons. B-7  516  

483. Peters Dash Company, Columbus, O.  
   Vehicle dashes, fenders, etc. B gal.  522  

   Bicycles and parts. F gal. 23  520  

485. Pratt & Letchworth, Buffalo, N.Y.  
   Hames, saddlery, etc. O-S-1&2  523  

486. Racine Wagon & Carriage Co., Racine, Wis.  
   a Wagons. 511  
   b Light pleasure vehicles. 516  

   Light pleasure vehicles. B-1  516  

488. Read, Wm., & Sons, Boston.  
   Bicycles. F gal. 3  520  

489. Remington Arms Co., Clinton, N.Y.  
   Bicycles and parts. F gal. 2  520  

   Saddlery. A gal.  523  


492. Rochester Wheel Co., Rochester, N.Y.  
   Vehicle wheels and parts. A-11  522  
   For exhibit see page 826.  

   Hearses and cars. A-4  519  

   Bicycles and parts. F gal. 15  520  

   Bicycles and parts. F gal. 16  520  
   For exhibit see page 1000  

496. Rowell, Saml., & Son, Amesbury, Mass.  
   Traps. B-7  516  

497. Rowland, Wm., & Harvey, Philadelphia.  
   Vehicle springs. B gal.  522  

   Bicycles and Cycle parts. F gal. 7  520  

   Carriage steps. B gal.  522  

500. Safety Halter Company, Chicago.  
   Safety halter, rope and street tie rope. B gal. 4  523  

   Road carts. A-3  516  

   Wheels, rolling chairs. A gal.  521  

503. Sayers & Scovill, Cincinnati.  
   a Buggies. 516  
   b Hearses and cars. 519  

504. Schaefer & Schlegel, Rochester, N.Y.  
   Carriage and hearse trimming. B gal.  522  


506. Schuttler & Hotz, Chicago.  
   a Wagon and cart. 510  
   b Special purpose wagons. 511  

   Light pleasure vehicles. B-2  516  
   For exhibit see page 816.  

   Light pleasure vehicles. A-2  516  

509. Seeman, Henry & Son, Durham, N.C.  
   Vehicle with wooden springs. B-4  516  

   Carriage axles. B gal.  522  

   Bicycles and parts. F gal. 5  520  

512. Shepard, H. G., & Sons, New Haven, Conn.  
   Carriage wood work. A-14  522  

   Phaeton. B-7  516  

   Rolled-forged steel specialties. A gal. 1  522  
   For exhibit see page 812.  


   Vehicle hardware. A gal.  522  

   Bicycles and accessories. F gal. 12-13  520  

   Car couplings, etc. N-N-3  500  

   Light pleasure vehicles. A-2  516  

   Bicycles. F gal.  520  

   Harness. A gal.  523  

   Dumping wagon. A-3  511
UNITED STATES.

For exhibit see page 822.


a. Wagons. A-8 510
b. Bob sleigh. 517

b. Special purpose wagons. 511
c. Log sled. 517


a. Wagons and carts. B-6 510
b. Pleasure carriages. A-8 515
c. Light pleasure vehicles. 516


530a. Taylor & Lawton, Denver, Col. Carriage and wagon wheels. B gal. 522


532. Toledo Display Horse Co., Toledo, Ohio. Display horses, etc. A gal. 523


b. Hearse. 519


537. Wakefield Rattan Co., Chicago. Children's carriages. B gal. 8 521


For exhibit see page 693.

541. Waton, D. S., Canastota, N. Y. Dumping wagon. A-7 511


b. Mountain wagon. 512
c. Bob sleigh. 517

544. Western Wheel Works, Chicago. a. Bicycles. A gal. 2 520
b. Wheel chairs; children's carriages. For exhibit see page 790. 521

545. Western Wheeled Scrapper Company, Aurora, Ill. Wheelbarrows. Y-N-Z-12 509


547. Wilcox & Howe Co., Birmingham, Conn. Vehicle hardware. B gal. 522

548. Williamson, A. McIntosh, Philadelphia. Rubber cushioned wheel. B gal. 522

549. Wilson, Myers & Co., New York. Bicycles and parts. F gal. 8 520


553. Whitman Agricultural Co., St. Louis. Trucks, wagons and cars. X-N & Y. S. Post 12 509


556. Woodhull, Morris, Dayton, O. Jump seat surrey. B-8 516


GROUP 84.

Aerial, Pneumatic and Other Forms of Transportation.


a. Pneumatic tubes. 524
b. Carriers, money changer. 525

b. Store service carriers. 525

561. Burdett & Rowntree, Chicago. Mechanism for operating elevator doors. D-4-16 527


564. Cregier, Dewitt C., Chicago. Electric elevator. E-5-26 527


566. McEachran, Andrew, Fitchburg, Mass. Elevator. F gal. 7 527

567. Miles Pneumatic Tube Company, Boston. D-12-24 a. Pneumatic parcel, cash and mail tubes. 524
b. Pneumatic elevators. 527

568. Morse, Williams, & Co., Philadelphia, Passenger elevator. D-14-17 527
For exhibit see page 815.

For exhibit see page 238.

570. Smith Pneumatic Transfer and Storage Co., Chicago. Pneumatic machinery for conveying grain, etc. Y-N-11 502


572. Standard Store Service Co., Freeport, Ill. Cash and package carriers. F gal. 7 525


574. Sweezy, Moses Clarke, New Haven, Conn. Cash carriers. F-14 525

GROUP 85.

Vessels, Boats—Marine, Lake and River Transportation.

756b. American Ship Windlass Co., Providence, R. I. Windlasses, capstans models, etc. D-12-23 531

For exhibit see page 526.

   a Barges. 528
   b Models of steamers. 529
   c Photographs. 530
   d Anchor. 532

758. Anderson, James A., Summit, Ohio. Full rigged ship and half models of brig and schooner. Gal. 47 528


759a. Bannister, Ed., U. S. Consul, St. Paul de Loando, Africa. Bimba or log canoe; Donga or dug-out, with equipment used by fishermen of Loanda. Collected for the Exposition. E gal. 528

759b. Batcheller, G. W., New Holstein, Wis. White birch canoe. 528

759c. Bath Iron Works, Bath, Me. Windlasses, capstans, appliances. D-12-24 531


762. Blanchard Bros., Yarmouth Me. Model of ship “Admiral.” Gal. 35 528


763. Boston & Lockport Block Co., Boston. Blocks, pumps, hoists. E gal. 29 532


764. Brooks, John B., Waysata, Minn. Sailboat model. E gal. 25 528


768. Carpenter, Geo. B., & Co. Sails and sailmaking. E gal. 42 532


769b. Chase Elevator & Manton Windlass Co., Warren, R. I. Vessel equipment models. D-12-22 532

769c. Chesapeake & Ohio Steamship Co., Cincinnati. Models of iron steamships. E gal. 33 529


600. Clark, Edward S., Boston. Steam launches; engines; boilers; propeller wheels and power-plants, on launches in lagoons. 529

601. Coleman’s Walter, Sons, Providence, R. I. Vessel and tackle. E gal. 42 528


   b Bunting flags. 536

604. Detroit Boat Works, Detroit, Mich. a Models of boats. D-1-22 528
   b Steam and electric launches. 529
   c Marine hardware. 532
   d Life boat and raft. 534

605. Drein, Thos., & Son, Wilmington, Del. Life boats and raft. D-1-24 534

606. Dunning James, Bangor, Me. Model of bark “Gold Hunter.” E gal. 35 528


608. Essex Institute & Peabody Academy of Science, Salem, Mass. New electric launches (50). In service on lagoons. 529

609. Eimes, Chas. F., Chicago. Engines. Steam launch Chicago 529


611. Essex Institute & Peabody Academy of Science, Salem, Mass. a Drawings of ships. 528
   b Photos of exhibits, nautical instruments. 536

612. Farrin, G. H., Richmond, Me. Model of ship “Ocean Wave.” E gal. 35 528

613. Foster, Hickman E., Decatur, Ill. A boat, arching apparatus. E gal. 46 529


615. General Electric Company, New York. a Electric motors, controllers, etc.; dynamos for marine work; electrical system for ships. (In service and in Electric Building.) 501
   b System of signaling. 534

616. Gerrish, E. H., Bangor, Maine. Canvas canoes and boat. E gal. 41 528

617. Glass, Wm., & Sons, Philadelphia. Single scull shell. E gal. 32-33 528

618. Globe Iron Works Co., Cleveland, Ohio. a Steamship model. 529
   b Steam windlass and engine. 531

619. Harcourt’s, J. F., & Son, Cincinnati. Tackle blocks. E gal. 42 532

620. Harlan & Hollingsworth Co., Wilmington, Del. Vessel models and pictures. D-12-24 529


622. Hoboken Ferry Co., Hoboken, N. J. Model of a ferry-boat, and boat containing the original engine and boilers of the first twin screw steamboat ever built. E gal. 29 529
UNITED STATES.

624. Hunt & Stowe, Old Town, Maine. Birch and canvas canoes. E. gal. 43 528
625. Hussey, Geo. B., Providence, R. I. Life rafts. E. gal. 42 534
627. Johnston, P. D., Chicago. Model of ocean steam yacht. Y's, 4 & 5 529
   a Yachts, boats and canoes. 528
   b Steam and electro-vapor launches. 529
   c Boat fittings. 529
631. Laughlin, Thomas, Company, Portland, Me. E. gal. 42
   a Steamers, wheels; windlasses. 531
   b Tackle blocks, marine hardware and anchors. 532
632. Levy Robert, Constantinople, Turkey. Caïque used on the Bosphorus and Golden Horn. Collected for the Exposition. D-6-21 528
633. Link Belt Engineering Co., Philadelphia. Automatic discharge barrel ele-
   vator, continuous bucket elevator and continuous coal conveyor. F-7 527
634. Loring, Giles, Yarmouth, Me. Model of bark “Onaway.” Gal. 35 528
636. McAdams, John, & Sons, Brooklyn, N. Y. Working models of marine brake. E. gal. 43 531
637. McBean, Edge & Co., Buffalo, N. Y. Vessel signal and anchor lights. E. gal. 42 534
638. McDonald, John, Bath, Me. Model of ship “Henry B. Hyde.” E. gal. 35 528
639. Meeker, Ellis, R., Chicago. Steam launches. Lagoons and lake 529
640. Merrill’s, R., Sons, New York. Compasses and binnacle. E. gal. 42 531
641. Metcalf, Damariscotta, Me. Models of ships “Ocean Herald,” “Flying Scot” and “American Union.” E. gal. 35 528
642. Minott, C. V., Phipsburg, Me. Model of ship “St. Mary.” E. gal. 35 528
643. Morse & Co., Bath, Me. Model of steamer “B. W. Morse” and barge “Independent.” E. gal. 35 528
644. Meaney, John, Boston. Race boat equipments. E. gal. 46 529
645. Morris, B. N., Vezzie, Maine. Boats and canoes. E. gal. 45 528
   a Boat and boating. 529
646. Neumann, Rudolph, Unalaska, Alaska. Hatch bidarka (skin canoe) complete—Alutean Islands. Bydarka and outfit of hunting sled, paddles, etc. Morton Sound. Birch bark canoe (outfit complete), double birch bark canoe (outfit complete) and toboggan sled—Upper Yukon River. Collected for the Exposition. E. gal. 28 528
647. New England Company, Bath, Me. Models of steamer “Sappho” and steam yacht “Sagamore.” E. gal. 35 529
648. New York State, Albany. E. gal. 30-39 529
   a Photos. of steamer and tow on Erie Canal and Hudson River. 529
   b Relief map of canal system of State, model of length of lock on Erie canal, model of original lock built at Little Falls, N. Y., in 1795, wall map showing water route from Duluth to New York, photos of aqueducts, etc. 530
   a Model of steamers. 528
   b Model of shipbuilding plant. 530
652. Nye, Rockland, Me. Model of ship “Young Mechanic.” E. gal. 35 528
653. Old Colony Steamboat Co., Boston. Steamer models. D-6-21 529
656. Peabody, Henry G., Boston. Photographs of U. S. naval squadron and yachts. E. gal. 35-34 528
657. Porter Joseph, Freeport, Me. Model of schooner “Dash” (privateer). E. gal. 35 528
658. Poulsen, N. C., Chicago. Paintings of vessels, etc. E. gal. 36 528
659. Pratt & Letchworth, Buffalo, N. Y. Propeller wheels and marine castings. O. S-I 531
661. Rice & Whitacre M’l’g Co., Chicago. Engine. Launch Atlantic 529
662. Richards, David, Chicago. Sailing model of seagoing racing yacht. E. gal. 26 528
663. Richardson, Chas. N., Gloucester, Mass. Steerers. E. gal. 43 531
664. Rogers, William, Bath, Me. Model of ship “Gov. Robie.” E. gal. 36 528
665. Rook, George, Emporia, Kansas. Working steam models of boats without bows. E. gal. 46 529
666. Rushton, J. H., Canton, N. Y. E. gal. 31-32
   a Row and sail boats; canoes. 528
   b Fittings for small boats. 532
For exhibit see page 578.
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<th>Item</th>
<th>Description</th>
<th>Location</th>
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<tr>
<td>670. Siamese Commission</td>
<td></td>
<td>Models of vessels and boats.</td>
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<tr>
<td>672. Skoldfield Bros., Brunswick, Me.</td>
<td></td>
<td>Model of ship “Sam'l Skoldfield.”</td>
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<tr>
<td>673. Smith &amp; Stanton, New York.</td>
<td></td>
<td>Drawings of steam vessels.</td>
</tr>
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<td>674. Soule, Horace, Freeport, Me.</td>
<td></td>
<td>Models of ships “Sulite” and “Tam O’Shanter.”</td>
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<tr>
<td>676. State Historical Society of Wisconsin, Madison, Wis.</td>
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<td>Old fur trade bateau.</td>
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<tr>
<td>677. Stewart &amp; Binney, Boston.</td>
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<td>Sail boat models.</td>
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<tr>
<td>682. Tisdale, W. B., Peru, S. A. Balsa from Lake Titicaca, Peru.</td>
<td></td>
<td>Collected for the Exposition.</td>
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<tr>
<td>685. Union Hardware Company, Torrington, Conn.</td>
<td></td>
<td>Tackle blocks, marine hardware, etc.</td>
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</tbody>
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For exhibit see page 778.

**DEPARTMENT G.—TRANSPORTATION.**

**GROUP 86. Naval Warfare and Coast Defense.**

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<tr>
<th>Item</th>
<th>Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>687. Venetian Gondola Co., Chicago.</td>
<td></td>
<td>Gondolas and barges.</td>
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<tr>
<td>688. Wallace, George H., Consul-General, Melbourne, Australia.</td>
<td></td>
<td>Bark canoe from Lake Tyers, Australia. Collected for the Exposition.</td>
</tr>
<tr>
<td>691. White, H. W., Yanktown, S. Dak.</td>
<td></td>
<td>Propeller for water craft.</td>
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<tr>
<td>692. Wilcox, Crittenden &amp; Co., Middle-town, Conn.</td>
<td></td>
<td>Marine hardware.</td>
</tr>
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<td>696. Woolfolk, Alex. M., Chicago.</td>
<td></td>
<td>Canal excavator.</td>
</tr>
<tr>
<td>697. World’s Columbian Exposition.</td>
<td></td>
<td>Series of twelve pastels illustrating ships of the American merchant marine from 1792 to the present time.</td>
</tr>
</tbody>
</table>

**Ames & Frost Co., Chicago, Ill. Bicycles.**

For exhibit see page 819.
### AUSTRIA.

**GROUP 80.**
1. Ringhofer, E., Smichow, near Prag. Photos of passenger and freight cars. 500

**GROUP 83.**
2. Armbruster, S., Vienna. Pleasure carriages. 515
3. Brozik, John W., Pilsen (Bohemia). Pleasure carriages. 515
4. Leckel, Hans, Vienna. Patented saddle. 523
5. Lohner, Jacob, & Co., Vienna. Pleasure carriages. 515
6. Pavlovic, Luigi, Triest. Whips. 523

**GROUP 85.**
7. Skoda, E., Pilsen (Bohemia). Propeller. 529

### BELGIUM.

**GROUP 80.**
1. Legrand, Achille, Mons. 499
   - a Rails.
   - b Rolling stock.
4. Société anonyme de Baume & Margent; Haine-Saint-Pierre. Wheels and axles. 500
5. Wasterlain, Jules, Malines. Car coupler. 500

**GROUP 83.**
6. Baudewyns, Alph., Ixelles. Samples of carriage painting. 522

**GROUP 85.**
7. Lindebriefs-Cuyx, H., Louvain. Ropes and cordage. 532
8. Vermeire-Hellebaud, F., Hamme. Ship's rigging; cordage. 532
9. Vermeire, Marcel, Hamme. Ship's rigging; cordage. 532

### CANADA.

**GROUP 80.**
1. Andrews, Jno. S., Milltown, N.B. Car coupler. 500
   - a Photos and maps.
   - b Locomotive and train of cars.
3. Central Bridge Co., Peterboro, Ont. Cattleguards. 500
4. Gray, Andrew G., St. John, N. B. Door for box car. 500
5. Hammond, O. S. & W. R., Parkdale, Ont. Car coupler. 500
6. Heard, Thomas, St. Thomas, Ont. Car couple. 500
7. Harris, J., & Co., St. John, N. B. Car axles, bolsters, etc. 500
8. Jones, F. Newhall, St. John, N. B. Car coupler. 500
10. Piper, Noah L., & Son, Toronto. 499
    - a Semaphores, gates, lamps, etc.
    - b Headlight.
11. Public Railroad Bureau. Maps, tables and photos of railroad lines, bridges, tunnels, etc. 499
12. Reid, Edwin B., Barrie, Ont. Car coupler. 500
13. Starkey, Wm. & Jas., Moncton, N. B. Car coupler. 500
14. St. Thomas Car Wheel Co., St. Thomas, Ont. Car wheels and axles. 500
15. Vessot, & Co., Joliette, Que. Lubricator. 500

**GROUP 81.**
17. Rochester, E., Ottawa. Electric car fender. 505

**GROUP 82.**
19. Western Counties Ry. Yarmouth, N. S. Photos of scenery. 508
GROUP 83.
23. Berry, A., Warden, Quebec. Sleigh. 517
24. Bonnar, Wm., Albion, Ont. Bugy. 516
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b Sleigh. 517
27. Chatham Mfg. Co., Chatham, Ont. Wagens. 510
29. Godd Bicycle Co., Brantford, Ont. Bicycles. 520
30. Hutchesons & Riley, Calgary, N. W. T. Cowboy outfit. 523
31. McCraney Coal Co., Toronto. Heavy carts. 510
32. McKinnon Dash and Hardware Co., St. Catharines, Ont. Carriage hardware. 522
a Carriage. 515  
b Phaeton. 516
34. Masseoro, Louis, Montreal. Phaeton. 516
35. Rancour, Alexis, Quebec. Gig. 516
36. Robinson, G. W., Kingston, Ont.  
a Carts. 510  
b Sleighs. 517
38. Verret & Co., Quebec.  
a Carriage. 515  
b Sleighs. 517

GROUP 85.
40. Baker, L. E., Yarmouth, N. S. Models of ships. 528
41. Buckley, Wm. H., Guysboro, N. S. Model of toy steamboat. 529
42. Canadian Pacific Ry., Montreal. Models of steamships. 529
43. Chanteloup, E., Montreal. Lighthouse. 534
44. Dept. Public Works, Ottawa. Models of locks and canals. 530
45. Douglas, C. H., Lakefield, Ont. Model of folding boat. 528
46. English, Wm., Canoe Co., Peterboro, Ont. Canoes. 528
47. Harlow, Stephen, Lockport, N. S. Models of fishing schooners. 528
48. Harris, J., & Co., St. John, N. B. Ships’ iron knees. 532
49. Herald Bros., Gore’s Landing, Ont. Canoes. 528
50. Moffat, Geo. B., North Sidney, C. B. Model of vessel. 528
52. Moseley, Eben, Dartmouth, N. S. Models of ships, yachts and barges. 528
53. Moseley, Henry, Dartmouth, N. S. Boats and models. 528
54. Strickland & Co., Lakefield, Ont. Canoes and boats. 528

CEYLON.

GROUP 83.
1. Ceylon Commission. Bullock carts and models. 510

GROUP 86.

DENMARK.

GROUP 80.
1. Beck, J. A. O., Randers, Jutland. Switches for railway track. 499

GROUP 83.

GROUP 85.
GERMANY.

**GROUP 80.**
2. Daimler-Motorengesellschaft, Cannstatt. Motor brake. 500
3. General Direktion der Gororsherzogl Badischen Haatsusenbahnen Harlsruhe. The drawings of the “Hoellen Hal” railroad, tooth racks, locomotives and cars. 500
4. Heyn, J., Stettin. Drawing; automatic safety valve, etc. 500
5. Henschel & Sohn, Cassel. Locomotive. 500
6. Krupp, Friedrich, Essen. Car wheels, etc. 500
8. Lueders, Heinrich, Brunswick. Automatic contrivance for railroad signals and switches. 501
    b Model of train. 469
12. Redaktion des Archive fuer Eisenbahnwesen, Berlin. Railway literature. 503
    a Models, photographs of railroad plants, etc. 499
    b Operating system. 501
15. Schichau, F., Elbing. Locomotive and tender. 500
17. Union Aktiengesellschaft fuer Bergbau, Eisen und Stahlindustrie, Dortmund. Constructions of iron and steel. 499
18. Wepfer, Gustav, Wasseraufingen. Railway viaduct. 499
20. Zypen von der & Charlier, Cologne-Deutz. Passenger railway coach; iron coal car; flat car. 500

**GROUP 81.**
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23. Pohlig, J., Cologne. Cable railroad and photos. 504

**GROUP 82.**
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27. Rettig Bros., Munich. Drawings and pamphlets of an inclined railway. 508

**GROUP 83.**
28. Aichinger, Gottlieb, Bayreuth. Landau. 515
29. Daimler Motorengesellschaft, Cannstatt. Wagonettes. 515
30. Dick & Kirschten, Offenbach-on-the-Main. a Carriages. 515
    b Apparitances. 522
31. Eisenwerke Gaggenau, Gaggenau. Bicycles with appurtenances. 520
32. Frankburger & Attenstein, Nuremberg. a Bicycles. 520
    b Invalids’ rolling chairs. 521
33. Kleyer, Heinrich, Frankfurt-on-the-Main. Bicycles and appurtenances. 520
34. Knoch, H., Egeln. Carriages. 515
36. Opel, Adam, Russelheim. Bicycles. 520

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**GROUP 85.**
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DEPARTMENT B--HORTICULTURE.

THE Horticultural Building occupies an advantageous position on the west side, midway between the north and south boundaries of the park. It presents a magnificent front of 1,000 feet, facing the lagoon and island, and has an extreme width of 287 feet. It is the largest and grandest building ever erected for a horticultural exhibition, and contains about 89,000 square feet more of exhibiting space than the combined floor areas of the buildings used for a similar purpose at the Centennial, New Orleans and Paris expositions.

The varied classification of the horticultural department necessarily requires a building adapted to diverse uses. Its general plan is tral, glazed dome, the inside and 187 with a gallery ex-well or open cen-lelogram-shaped called curtains, connect the dome ion, forming two feet wide by 270 end pavilion is two an area of 117 by floor. The style is sance, the order frieze decorated garlands. A high-vestibule, with side, representing and sleep of flower- or grand entrance. entrance and side along the la-rows of mammoth flowers and trail-cession of steps broad landing, for-dolas and other water craft. The dome is sufficiently large to admit of the construction of a miniature tropical mountain and an extensive cave underneath. Several cascades are formed upon the sides of the mountain, and the sparkling waters leap from rock to rock under the foliage of the largest palms, tree ferns and other tropical plants that have ever been collected in a conservatory. Australia, many Central and South American countries, Africa and every nation in Europe, the West Indies, China, and the largest conservatories in the United States have contributed to the collection of plants which are exhibited in the dome and east curtains. Japan, among many rare plants, furnishes some dwarf trees more than 100 years old and only a few feet in height. The entire cave is constructed of stalagmites, stalacties and quartz crystals from a South Dakota cave, and the numerous electric lights placed within it produces a most dazzling and pleasing effect.

The dome gallery contains exhibits of herbariums, florists' supplies, fruit and flower plates, etc., and is used as a promenade from which to look down on the plant displays.

The west curtains, in which the pomological exhibit is installed, aggregate 692 feet in length and are 46 feet wide. The 35,000 plates and jars of fruits are
from every part of the world, and are represented either in fresh specimens, wax models, or varieties preserved in fluids.

Every country in which the grape is grown extensively, is making a display of wines on the first and second floors of the south pavilion. France, Spain, Portugal, Italy, Germany and other foreign countries are in the contest for honors in the greatest viticultural exhibition that has ever taken place.

Each floor of the north pavilion is devoted to seeds, horticultural appliances, canned and dried fruits, jellies, marmalades, etc. The largest seed firms of Europe and America are well represented; improved horticultural machinery is extensively exhibited; the canned fruit displays are elaborate and tastefully arranged, and there is in this pavilion a miscellaneous list of exhibits interesting to all classes of visitors.

A bearing orchard of oranges, lemons and other citrus fruits fills the entire north court; while the opposite court on the south contains a typical wine cellar from the Rhine, in Germany, and several basins of artificially heated water in which are grown the Victoria Regia with its enormous leaves, and other water plants.

Artistically arranged flower beds occupy the space in front of the Horticultural Building, while on the area back, there is a varied exhibit of greenhouses, constructed by leading firms, and filled with rare collections of plants.

The central feature in the landscape architecture of the entire grounds is the island; from it the best view can be obtained of all the department buildings. The flower beds and walks have been designed with special reference to exhibiting to good advantage semi-hardy rhododendrons, azaleas, kalmias, conifers, roses, etc. Foreign countries have been the most liberal contributors and the exhibition of large and rare specimens is unequalled.

Five acres at the western entrance of the Midway Plaisance is assigned for a nursery exhibit. France is making a very interesting display in fruit trees trained into various forms and grafted in different ways, as well as a great variety of evergreen and deciduous shrubs. The State of Wisconsin illustrates with bearing plants, improved methods of growing and flooding cranberry marshes. An acre in bearing orange trees and many exhibits of deciduous and evergreen trees and shrubs make very attractive displays.

Cold Storage.—Cold storage rooms are conveniently located for preserving fruits and cut flowers, and many dealers in refrigerating machinery make competitive tests in the class provided for that purpose.

Water.—Very liberal provision has been made for water, with stand-pipes at frequent intervals, to which hose can be attached for sprinkling.

Heat.—The dome and front curtain are heated sufficiently to provide a proper temperature for the most tender tropical plants. More than ten miles of 1 1/4-inch steam pipe is needed for this purpose.

Auxiliary Greenhouses.—Near the Horticultural Building greenhouses aggregating 25,000 square feet have been constructed, and are used for recuperating plants injured from any cause, and for the purpose of developing them to the highest degree of perfection before placing them on exhibition.

Propagating Houses and Frames.—Eight large propagating houses, covering a space of 20,000 square feet, have been provided. Limited room in these houses has been assigned to exhibitors who will propagate plants of unusual merit, which can not be transported from their distant homes, and the balance is devoted by the department to growing a reserve collection of plants with which to replace specimens that have ceased to be attractive and for storing those whose season of beauty has passed. A large number of cold frames occupy adjacent grounds, to be used for cultivating pansies, various annuals and bulbs and for the storage of half-hardy plants. The classification provides for complete exhibits of green and hot houses and conservatories, with best methods of heating and ventilating them.

Out-Door Space.—The space assigned to the department for exhibits of
trees, shrubs and plants which will be hardy in the open ground during the time of the Exposition, embraces about twenty-five acres, and includes the greater part of a beautiful island, centrally located, artistically laid out in beautiful walks, and the choicest part of the grounds. Through this entire area has been placed a complete network of pipes to supply all the water necessary to insure a vigorous and healthy growth of all trees, shrubs and plants. Displays of deciduous shrubs, roses, paeonies, and such herbaceous plants as delphiniums, pyrethrums, etc., have been, in many instances, already permanently placed.

**FLORICULTURE.**

About a week before the opening of the Exposition the management paid Mr. John Thorpe a decided compliment. Mr. Thorpe's title was Superintendent of Floriculture. The management raised the Bureau of Floriculture to a department and made Mr. Thorpe chief. Horticulture will remain as before under the charge of Chief Samuels, but the two departments will be distinct. The show of flowers was the center of attraction on the grounds before the opening of the Exposition and its proportions have surpassed the wildest expectations of the officers themselves. There is no one to whom more credit is due than Mr. Thorpe. He has worked with the energy of six men, toiled night and day, and knows every detail of the exhibit.

The plan for the exhibits of flowers from the opening until the closing of the Exposition is as follows:

**MAY.**

Indoors—Roses in pots, calceolarias, azaleas, ericas, rhododendrons, begonias, cyclads, crotons, dracenas, aroids, marantas, palms, ferns, cacti, pelargoniums, miscellaneous stoe and greenhouse plants in foliage, miscellaneous stoe and greenhouse plants in flower.

Cut Flowers—Orchids, roses, carnations, lilies, pansies, miscellaneous hardy bulbs and other varieties, miscellaneous tender varieties.

Out of Doors—Pansies, tulips, hyacinths, narcissus, miscellaneous bulbous flowers, miscellaneous herbaceous flowers, miscellaneous flowering shrubs.

**JUNE.**

Indoors—Orchids, carnivorous plants, begonias, fuchsias, petunias, cannas, nepenthes, palms, ferns, cacti, miscellaneous stoe and greenhouse plants in foliage, miscellaneous stoe and greenhouse plants in flower.

Cut Flowers—Roses, carnations, lilies, peonies. Miscellaneous cut flowers, tender; miscellaneous cut flowers, hardy.

Outdoors—Campanulas, aquilegias, miscellaneous hardy herbaceous flowers, miscellaneous hardy shrubbery flowers.

**JULY.**

Indoors—Orchids, tuberous begonias, ornamental-leaved begonias, shrubby begonias in flower, gloxinias, achimenes, gesneraceous plants, coladiums, palms, ferns, cacti.

Cut Flowers—Orchids, cannas, lilies, tuberous begonias, sweet peas, hollyhocks, tea roses, various annuals, miscellaneous hardy herbaceous, miscellaneous hardy shrubby.

Outdoors—Lilies, sweet peas, tea roses, clematis, various annuals, miscellaneous herbaceous plants.

**AUGUST.**

Indoors—Palm, ferns, cacti, orchids.

Cut Flowers—Orchids, roses, carnations, dianthus, gladiolus, asters, sweet peas, phlox herbaceous, phlox annuals, zinnias tall, zinnias dwarf, miscellaneous annuals, miscellaneous herbaceous.

Outdoors—Carnations, dianthus, dahlias, gladiolus, cannas, asters, sweet peas, verbenas, clematis, hollyhocks, hydrangeas, tuberous begonias, palms, ferns, cacti, aquatics hardy, aquatics tender, phlox hardy, phlox annual ornamental grasses.

**SEPTEMBER.**

Indoors—Palm, ferns, cacti, orchids, tuberous begonias, asters in pots, miscellaneous store and greenhouse plants in foliage, miscellaneous store and greenhouse plants in flower.

Cut Flowers—Carnations, tea roses, dahlias, gladiolus, cannas, petunias, asters, zinnias, phlox hardy, phlox annual, miscellaneous annuals, miscellaneous hardy herbaceous flowers, cut flowers in designs.

Outdoors—Roses, carnations, dahlias, gladiolus, cannas, tuberous begonias, petunias, asters, zinnias, verbenas, phlox hardy, phlox annual, miscellaneous annuals, miscellaneous herbaceous flowers.

**OCTOBER.**

Indoors—Palm, ferns, cacti, orchids, chrysanthemums, pelargoniums, tuberous begonias, cosmos.
Cutflowers—Chrysanthemums, dahlias, cannas, roses, carnations, tuberous begonias, pansies. Miscellaneous—tender, hardy.

Outdoors—Chrysanthemums, dahlias. Miscellaneous, hadry.

Cut-flower exhibits will be made on Tuesday of each week during the whole Exposition, commencing at noon. There will also be exhibits of designs for house decoration on these and other days, especially during September and October. On account of the condition of temperature and situation such cut flowers as embrace roses, giadiolis, asters, zinnias and some other flowering plants, are to be displayed from the latter part of May to July 11th from the South, and from four to six weeks later from the Northern States.
As shown by the plans of the Horticultural Building, the entire ground floor proper is laid off into sections extending from east to west, and indicated by a number marked on each gallery post. The floor spaces are crossed from north to south, and lettered from A to Z in regular order, each space being in the form of a square. In the center of the first floor is the dome, where various exhibits of tropical plants are made. On each side of the building is a large room, known as the north and south curtains, and adjoining these are open courts for open air exhibits. The numbers on the second or gallery floor are the same as on the first floor. The location of an exhibit will be readily found by referring to the letter and figure following it in the entry, or after the name of a country, or State, and by referring to these in the floor plans.
CLASSIFICATION.

HORTICULTURAL DEPARTMENT (B.)

HORTICULTURE, VITICULTURE, POMOLOGY, FLORICULTURE, ETC.

GROUP 20.

VITICULTURE, MANUFACTURED PRODUCTS, METHODS AND APPLIANCES.

Class 119. The vine and its varieties—shown by living examples, by cuttings, by engravings, photographs, etc.
Class 120. Methods of planting, staking, and training the vine.
Class 121. Vineyards and their management.
Class 122. Grapes for the table.
Class 123. Grapes for wine-making.
Class 124. Grapes for drying—raisin grape culture.
Class 125. Methods of and appliances for cultivating, harvesting, curing, packing and shipping grapes.
Class 126. White wines.
Class 127. Red wines, clarets, Zinfandel, Burgundies.
Class 128. Sherries, Madeira, Port.
Class 129. Sparkling wines.
Class 130. Methods of expressing the juice of the grape; of fermenting, storing, racking, bottling and packing. Wine cooperage.
Class 131. Brandy of all kinds; methods and apparatus for the production of brandy.
Class 132. Literature, history, and statistics of viticulture.

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POMOLOGY, MANUFACTURED PRODUCTS, METHODS AND APPLIANCES.

Class 133. Pomaceous and stone fruits—pears, apples, plums, peaches, nectarines, apricots, cherries, etc.
Class 134. Citrus fruits—oranges, lemons, limes, shaddocks, etc.
Class 135. Tropical and subtropical fruits—bananas, pineapple, guavas, mangoes, sapodillas, tamarinds, figs, olives, etc.
Class 136. Small fruits—strawberries, raspberries, blackberries, gooseberries, currants, etc.
Class 137. Nuts—almonds, pecans, chestnuts, filberts, walnuts, etc.
Class 138. Casts and models of fruits; imitations in wax, etc.
Class 139. Dried and evaporated apples, peaches, pears and other fruits. Prunes, figs, dates, etc., in glass or boxes.
Class 140. Fruits in glass or cans, preserved in syrup or alcohol.
Class 141. Jellies, jams, marmalades.
Class 142. Fruits glacé.
Class 143. Cider, perry, vinegar and expressed juices of berries.
Class 144. Methods for crushing and expressing the juices of fruits and berries. Apparatus and methods of dessicating; apparatus for making vinegar, etc. Cider mills and presses.
Class 145. Methods for preserving all fruits by cold storage or chemical appliances; their keeping, packing and shipping.
Class 146. Literature, history and statistics.

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Class 147. Roses.
Class 148. Carnations.
Class 149. Orchids.
Class 150. Rhododendrons, azaleas, etc.
Class 151. Chrysanthemums.
Class 152. Dahlias, gladiolus, etc.
Class 153. Ornamental bulbous flowering plants. Hyacinths, narcissus, etc.
Class 154. Pelargoniums, zonal and show.
Class 155. Bedding plants and flowering annual plants.
Class 156. Climbing plants.
Class 157. Perennials and flowering shrubs not otherwise specified.
Class 158. Miscellaneous annuals, phlox, asters, etc.
Class 159. Palms.
Class 160. Ferns.
Class 161. Ornamental leaf plants.
Class 162. Cactaceae.
Class 163. Aquatic plants.
Class 164. Native wild plants and flowers.
Class 165. Ornamental grasses and reeds.
Class 166. Rare exotic plants.
Class 168. Plants grown for commercial purposes.
Class 169. Receptacles for plants, flower pots, plant boxes, fern cases, tubs, jardinières, plant and flower-stands, ornate designs in flower stands.
Class 170. Literature, history and statistics.
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Class 180. General display of flower and vegetable seeds by seed houses or growers.
Class 181. Methods of growing, harvesting, and preparing flower, vegetable, tree, and shrub seeds.
Class 182. Seed warehouse, methods of burnishing and packing for the retail trade. Work of packing, etc., in operation.
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Class 189. Heating apparatus for hot houses and conservatories.
Class 190. Seats, chairs and adjuncts for the garden and conservatory.
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Class 192. Garden and nursery administration and management. Floriculture and arboriculture as arts of design and decoration. Laying out gardens, designs for the laying out of gardens and the improvement of private residences. Designs for commercial gardens, nurseries, graperies; designs for the parterre; treatment of water for ornamental purposes; cascades, fountains, reservoirs, lakes; formation and after treatment of lawns. Garden construction, building, etc. Rockwork grottoes; rustic construction and adornment for private gardens and public grounds. Planting, fertilizing, cultivating and appliances.
Department B. Horticulture.

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4. Bradshaw, Mrs. D. C., Russell.  
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5. Brown, Mrs. C. C., Wilmington.  
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7. Cowles, H. C., Statesville.  
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   Preserved citron.  

   a Preserved fruits.  
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10. Gibson, Mrs. Robert, Concord.  
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    a Preserved fruits.  
    b Fruit jellies.  

12. Hall, Miss J. B., Red Springs.  
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    a Preserved fruits.  
    b Fruit jellies.  

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    Fruit jellies.  

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CHICAGO, U. S. A.
DEPARTMENT K.—FINE ARTS.

It is the aim of this department to show a collection of the fine arts of the various nations, giving each country adequate space in which fairly to represent its highest and most characteristic achievements in painting, sculpture, architecture and decoration. In sculpture and architecture figures and monumental decorations, bas-reliefs in marble or bronze, figures or groups in bronze, gems, cameos and intaglios are shown. Paintings in oil, paintings in water color, paintings on ivory, on enamel, on metal, on porcelain and other wares, and fresco painting on walls, are included within the groupings, and in addition there are engravings and etchings, prints, chalk, charcoal, pastel and other drawings. All the works admitted to the department were first examined by juries duly constituted.

The building is Grecian-Ionic in style, and is a pure type of the most refined classic architecture. Perhaps no building in the world, and certainly no one in the United States, surpasses it in beauty. Connoisseurs have pronounced it perfect in every detail, and have been lavish in the praise of the chief designer, Mr. C. B. Atwood. It is difficult to determine which the exterior or structure is oblong, feet, intersected and west by a nave hundred feet wide high, at the inter-a dome sixty feet building is 125 feet dome, which is colossal statue of figures of Winged transept has a clear center of sixty entirely from

On either side twenty feet wide feet above the tions of the sculpt-on the main floor transept, and on the ground floor are ample areas paintings and sculptured panels in relief. The corners made by the crossing of the nave and transept are filled with small picture galleries.

Around the entire building are galleries forty feet wide, forming a continuous promenade around the structure. Between the promenade and the naves are the smaller rooms devoted to private collections of paintings and the collections of the various art schools. On either side of the main building, and connected with it by handsome corridors, are very large annexes, which are also utilized by various art exhibits.

The main building is entered by four great portals, richly ornamented with architectural sculpture, and approached by broad flights of steps. The walls of the loggia of the colonnades are highly decorated with mural paintings, illustrating the history and progress of the arts. The frieze of the exterior walls and the pediments of the principal entrances are ornamented with sculptures and portraits in bas-relief of the masters of ancient art. The general tone or color is
light gray stone. The construction is necessarily fire-proof. The main walls are of solid brick, covered with “staff,” architecturally ornamented, while the roof, floors and galleries are of iron. All light is supplied through glass skylights in iron frames. The building is located in the northern portion of the park, with the south front facing the lagoon. It is separated from the lagoon by beautiful terraces, ornamented with balustrades, with an immense flight of steps leading down from the main portal to the lagoon, where there is a landing for boats. The north front faces the wide lawn and the group of State buildings. The immediate neighborhood of the building is ornamented with groups of statues, replica ornaments of classic art, such as the Choriagic monument, the “Cave of the Winds,” and other beautiful examples of Grecian art. The ornamentation also includes statues of heroic and life-size proportions.

There is an eastern and western annex to the main building each of which is 120x200 feet.

A better representation from a greater number of different nations is seen than has ever been brought together at any previous Exposition. The responses from foreign governments and the enthusiasm of foreign artists when the art exhibit was thrown open to them has far exceeded the most sanguine predictions of two years ago. Visitors will, therefore, see not only an epochal exhibit of American art, but the choicest productions of the world’s great masters from across the sea. Space is assigned to France, Germany, Austria, Holland, Great Britain, Belgium, Sweden, Norway, Denmark, Russia, Italy, Spain, Japan, Canada and Mexico. There is also a gallery devoted to modern European master-pieces owned in private collections in America. This space is situated between the United States and French sections. Lovers of the finesse in the French school will see masterpieces by acknowledged leaders. The famous Dutch school, the Russian, the less known but powerful Scandinavian, the impressionist, and many others are represented by a selection of the choicest productions from the leaders of each school. When it comes to a critical study of American art, the patriotic American will discover therein not only certain characteristics of each of the foreign schools, but a distinct individuality, just as the American character is composite and a reflex of its varied sources.

The international fine arts expositions of the past may be said to have begun with Paris in 1867. Then followed Vienna in 1873, Philadelphia in 1876, Paris in 1878, and special exhibitions of fine arts in Berlin and Munich some years later. Then came the Melbourne Exposition, preceding the last great international exposition in Paris in 1889. An idea of the scope of the present fine arts exposition may be gathered from the fact that the fine arts exhibit contains between 1,500 and 2,000 pieces in the American section alone. In round figures France contributes 800 pieces, Germany 900, Dutch artists 300, England 600, Austria 300, Denmark 250, Sweden 200, Italy 600, Norway 180 and Belgium 400. The largest space is given to the United States artists. Next comes France with 19,201 square feet, next Germany, Great Britain, Italy, Belgium and Austria in order, and so on ranging down to Mexico, which has 1,500 square feet. In securing a good representation of American art, advisory committees were appointed in the leading art centers of the United States and in European centers where American art colonies flourished. By an interchange of service these advisory committees became juries of selection. The work of these juries and of the national jury for the west and south that recently performed its labors in Chicago, is familiar to the reading public. For a special exhibition of retrospective American art, a special committee was appointed to solicit from private American owners and societies a loan collection that would best exhibit historical art in America. This committee has selected about a hundred pieces that are hung together in one of the galleries. The collection shows the work of native artists from the earliest known specimens down to 1876. There is a loan collection of foreign masterpieces, owned in America, which are hung in three adjoining galleries in the west end of the east pavilion. These are all the prop-
property of American collectors. They include all the illustrious names among artists, beginning with the dawn of this century and up to the present time. From Boston and San Francisco, from New York, Chicago, Philadelphia and other centers, these pictures come. Millet, Rosa Bonheur, Carolus-Doran, John Constable, Milais, Meissonier, Alma Tadema and a score of other famous names are represented. There are about 150 pieces in the loan collection. The lenders include the best known art patrons in America. From Chicago galleries there are paintings loaned by Potter Palmer, Charles T. Yerkes, Mrs. Henry Field, R. Hall McCormick, Martin Ryerson, C. L. Hutchinson, A. A. Munger and S. M. Nickerson.

The east and west pavilions connect with the central pavilion by means of corridors, which are also used as galleries. The east pavilion contains the French government exhibit and also the French masterpieces owned by Americans. The west pavilion contains the Italian exhibit and the exhibits of several other foreign countries whose space is limited. The central pavilion has two floors for the exhibit of paintings. The northeast section, or one-fourth of the space for paintings, is devoted to the works of United States artists. The southeast section is given up to Great Britain and Canada. The southwest section contains the works of art sent by Holland, Spain, Russia and Japan. The northwest section contains all the German paintings. In general terms the oil paintings are all hung on the ground floor in the central pavilion, while water colors are on the second floor. There is a overflow exhibit of oil paintings upstairs in the American section.

Between these four quadrangles are four courts and the central rotunda. The north and south courts contain the groupings of statuary. The east and west courts contain the architectural exhibit. Here are seen structures and casts illustrating ancient, medieval and modern architecture. Cases of antique and modern carvings, and architectural drawings are hung on the walls. In the north and south courts is the installation of statuary. There are figures and groups in marble, casts from original works by modern artists, models, monumental decorations, figures and groups in bronze and bas-reliefs in marble and bronze.

The central rotunda contains a heroic figure of Washington by Thomas Ball. On the sides of the rotunda are twelve spaces for figure groupings furnished by different foreign countries. There are also rotundas in each of the smaller pavilions, where statuary and architectural specimens are grouped. There are eighty galleries in all including the east and west pavilions. These range from 30 feet square to 36 by 120 feet for the exhibition of paintings. There are also 108 alcoves, fronting on the court of the central pavilion. Twenty-eight of these are on the first floor and eighty on the second floor, and much additional wall space is gained by their use. Engravings, etchings and black-and-whites are mainly upstairs with the water colors, and pastels are downstairs with the oils.

The lighting arrangements are as faultless as can be devised. All the pavilions, including rotundas, courts and galleries, are lighted from above. The modulation of natural light in the daytime is simple and effective. The system of artificial lighting at night is in itself a work of art. Myriads of incandescent lamps shed a mellow radiance over courts and galleries. The electric lamps are arranged in clusters above each court, and also in continuous rows around the galleries. The attractiveness of the art galleries at night is one of the features of the Exposition.
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CALL AT EXHIBIT, TRANSPORTATION BUILDING GALLERY, SEC. E, COLS. 31-32.

OR WRITE FOR ILLUSTRATED CATALOGUE.
This building, which is expressly devoted to the exhibit of fine arts, painting, sculpture and statuary, is divided into four great courts known as the north, south, east and west courts. These lead into a space known as the central dome. Each space for exhibits is indicated by a number in connection with the court in which it is located. In connection with the main building are pavilions located at each corner, where exhibits are also shown, an exterior colonnade extending from each pavilion to the north and south courts. The paintings, sculpture and groups of statuary are each indicated in regular numerical order. The location of the exhibit will be found by referring to the name of the exhibitor and then glancing at the diagram, where the court, or gallery, containing the exhibit is shown, together with the number of the painting, etc. The exhibits in the loggias, and also on the second floor, are indicated in like manner.
PLAN OF UPPER GALLERY.
CENTRAL PAVILION.

ASSIGNMENT OF SPACE.

UNITED STATES—Galleries: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18.

CANADA: 10, 11.

RUSSIA: 19, 20.

SPAIN: 21, 22, 23.

JAPAN: 24.

HOLLAND: 25, 26, 27.

GERMANY: 28, 29, 30, 31, 32, 33, 34.

AUSTRIA: 35, 36, 37, 38, 39, 40, 41, 42.

SOCIETY OF POLISH ARTISTS: 62.

BELGIUM: 63, 64, 65, 66, 67.

SWEDEN: 68, 69, 70.

NORWAY: 71, 72.

DENMARK: 73, 74, 75.

ITALY: 76, 77, 78, 79, 80.

MEXICO: Space in Gallery, South Court: 134, 135, 136.

Architecture and Sculpture are shown in the Rotunda, North, South, East and West Courts of the Central Pavilion, and in the Rotundas of the East and West Pavilions.

Water-colors, Engravings, etc., are shown mostly in the Upper Galleries of the Central Pavilion, 109 to 188.

PLAN OF UPPER GALLERIES
CENTRAL PAVILION

PALACE OF FINE ARTS.
WORLD'S COLUMBIAN EXPOSITION.

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World's Columbian Exposition
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W. B. Conkey Company,
Chicago.
CLASSIFICATION.

ART DEPARTMENT (K).

FINE ARTS; PAINTING, SCULPTURE, ARCHITECTURE AND DECORATION.

GROUP 139.

SCULPTURE.

Class 820. Figures and groups in marble; casts from original works by modern artists; models and monumental decorations.
Class 821. Bas-reliefs in marble or bronze.
Class 822. Figures and groups in bronze.
Class 823. Bronzes from cire-perdue.

GROUP 140.

PAINTINGS IN OIL.

GROUP 141.

PAINTINGS IN WATER COLORES.

GROUP 142.

PAINTINGS ON IVORY,
ON ENAMEL,
ON METAL,
ON PORCELAIN
OR OTHER WARES;
FRESCO PAINTING ON WALLS.

GROUP 143.

ENGRAVINGS AND ETCHINGS; PRINTS.

GROUP 144.

CHALK,
CHARCOAL,
PASTEL
AND OTHER DRAWINGS.

GROUP 145.

ANTIQUE AND MODERN CARVINGS;
ENGRAVINGS IN MEDALLIONS OR IN GEMS;
CAMEOS, INTAGLIOS.

GROUP 146.

EXHIBITS OF PRIVATE COLLECTIONS.
DEPARTMENT OF FINE ARTS. (K)

UNITED STATES SECTION.

JURIES OF ACCEPTANCE.

GROUP 139.—SCULPTURE.

NEW YORK.

Augustus St. Gaudens.
J. Q. A. Ward.
Daniel C. French.

Olin L. Warner.
John J. Boyle.

PHILADELPHIA.

John J. Boyle.
Olin L. Warner.
Daniel C. French.

BOSTON.

Daniel C. French.
John J. Boyle.

ROME.

Harriet Hosmer.
Franklin Simmons.

FLORENCE.

William Couper.
Waldo Story.
Larkin G. Mead.

NATIONAL JURY AT CHICAGO.

Daniel C. French, Boston.
Robert Bringhurst, St. Louis.

ALTERNATES.

John J. Boyle, Philadelphia.
J. Gelert, Chicago.

GROUP 140.—PAINTINGS IN OIL.

NEW YORK.

William M. Chase.
R. Swain Gifford.
F. D. Millet. (G. W. Maynard, Alternate.)
I. M. Gaugengigl.
E. C. Tarbell.

Eastman Johnson.
H. Bolton Jones.
John W. Beatty.
Charles E. Dana.

PHILADELPHIA.

Clifford P. Grayson.
Joseph R. Woodwell.
Eastman Johnson.

BOSTON.

Thomas Allen.
J. J. Enneking.
I. M. Gaugengigl.

E. C. Tarbell.
F. P. Vinton.
William M. Chase.

PARIS.

R. Swain Gifford.

Walter McEwen.
Gari J. Melchers.
Charles Sprague Pearce.
J. L. Stewart.

F. A. Bridgman.
W. T. Dannat.
Walter Gay.
Alexander Harrison.

E. L. Weeks.
MUNICH.
Walter Beck.
J. Frank Currier.
Toby Rosenthal.

CARL MARR.
ORRIN PECK.

ROME.
C. C. Coleman.
Elihu Vedder.

WILLIAM STANLEY HASELTINE.

NATIONAL JURY AT CHICAGO.
G. W. Maynard, New York.
J. Francis Murphy, New York.
Thomas Hovenden, Philadelphia.
Thomas Allen, Boston.
H. F. Farny, Cincinnati.

C. C. Coleman, Rome, Italy.

GROUP 141.—PAINTINGS IN WATER COLORS.
NEW YORK.
Frederick Dielman.
Charles Harry Eaton.
Louis C. Tiffany.

J. C. Nicoll.
Walter Shirlaw.

In other cities the Jury for Paintings in Oil also acted for Water Colors.

GROUPS 139, 142 and 145.—ARCHITECTURE.
NEW YORK.
Richard M. Hunt.
William B. Tuthill.
C. Howard Walker.

Stanford White.
Frank Miles Day.

PHILADELPHIA.
Frank Miles Day.
Henry Pettit.

John Stewardson.
W. B. Tuthill.

Edmund M. Wheelwright.

BOSTON.
Edward C. Cabot.
C. Howard Walker.

Edmund M. Wheelwright.
John Stewardson.

W. B. Tuthill.

NATIONAL JURY AT CHICAGO.
C. B. Atwood, New York.
Cass Gilbert, St. Paul.

W. S. Eames, St. Louis.
S. S. Beman, Chicago.

D. Adler, Chicago.

GROUP 142.—Same Juries as for Paintings in Oil, and for Architecture.

GROUP 143.—ENGRAVINGS AND ETCHINGS; PRINTS.
FOR ETCHINGS.
NEW YORK.
Carleton T. Chapman.
Samuel Colman.
James D. Smillie.

C. F. W. Mielatz.
C. A. Platt.

PHILADELPHIA.
Hermann Faber.
Bernhard Uhle.

Max Rosenthal.

BOSTON.
W. B. Closson.
Charles A. Walker.

S. R. Koehler.

FOR WOOD ENGRAVING.
NEW YORK.
Horace Baker.
Frank French.

John P. Davis

PHILADELPHIA.
A. M. Lindsay.

C. H. Reed.

BOSTON.
W. B. Closson.
Charles A. Walker.
S. R. Koehler.
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NEW YORK.

BOSTON.
J. Templeman Coolidge. Frederick P. Vinton.
J. Harvey Young.

PHILADELPHIA.
J. Granville Leach.
# Department K.--Fine Arts.

## UNITED STATES.

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<td><strong>Adams, Herbert, New York.</strong></td>
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<td>3. Colored Bust of St. Agnes. (Plaster.)</td>
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<td><strong>Bachman, Max, Boston.</strong></td>
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<td>4. Bust of Miss O. (Plaster.)</td>
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<td>6. The Son of Man. (Plaster.)</td>
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<td>10. The Ghost Dance (study of the nude). (Plaster.)</td>
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<td>11. Bust of Mrs. B. (Marble.)</td>
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<td>14. Panel of Joseph Jefferson as Rip Van Winkle, Bob Acres, and Dr. Pangloss. (Bronze.)</td>
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<td><strong>Bissell, George E., New York.</strong></td>
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<td>18. Tired Out. (Bronze.) (From Cire perdue.)</td>
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<td><strong>Bradley, Amy A., Boston.</strong></td>
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<td>19. Daughter of the Pharaohs. (Plaster.)</td>
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<td>20. Bust of a Boy. (Plaster.)</td>
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<td><strong>Brighurst, Robert P., St. Louis.</strong></td>
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<td>21. Awakening of Spring. (Terra Cotta.)</td>
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<td>22. Faun—Fragment of a Fountain. (Plaster.)</td>
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<td><strong>Brooks, Caroline S., New York.</strong></td>
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<td>23. Iolanthe. (Marble.)</td>
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<td>25. Lady Godiva Returning. (Marble.)</td>
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<td>27. Enid. (Bust of a Child.) (Plaster.)</td>
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<td><strong>Bush-Brown, H. K., New York.</strong></td>
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<td>28. The Buffalo Hunt. (Plaster.)</td>
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<td>30. The Cider Press. (Bronze.)</td>
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<td>32. Relief Portrait of Harriet Monroe. (Bronze.)</td>
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<td>34. Cox, Charles B., Philadelphia.</td>
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<td>41. Fjelde, Jakob, Minneapolis.</td>
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<td>43. French, Daniel C., New York.</td>
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<td>44. Gusab, Goddess of the Severn. (Bronze.)</td>
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<td>45. Geler, J., Chicago.</td>
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<td>47. Graffy, Charles, Philadelphia.</td>
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<td>49. Griffith, J. Milo, Chicago.</td>
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<td>50. H. R. H. the Princess of Wales. (Bronze.)</td>
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<td>51. Hamond, Jane N., Boston.</td>
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<td>55. Griffith, J. Milo, Chicago.</td>
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<td>56. Medallion, Study of a Female Head. (Marble.)</td>
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<td>57. Medallion, Dawn. (Marble.)</td>
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<td>58. Medallion, Dawn. (Marble.)</td>
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<td>59. Medallion, Dawn. (Marble.)</td>
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<td>62. John Gilbert as Sir Peter Teazle. (Bronze.)</td>
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64. Kemeys, Edward, Chicago.
65. Old Ephraim. (Bronze.)
66. After the Feast. (Bronze.)
67. American Panther and Her Cubs. (Bronze.)
68. Grappling His Game. (Bronze.)
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71. The Still Hunt. (Bronze.)
72. Battle of the Bulls. (Bronze.)
73. American Black Bear. (Bronze.)
74. Jaguar and Boa-constrictor. (Bronze.)
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77. Portrait Bust. (Marble.)
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80. Bust of John Ericsson. (Plaster.)
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84. The Return of Proserpine from the Realms of Pluto. (Plaster.) On pediment of Agricultural Building.
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86. Portrait Medallion. (Plaster.)
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88. Portrait of a Child. (Bronze.)
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94. Bust of Thomas Eakins. (Bronze.)
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107. Tiger at Bay. (Plaster.)
108. Potter, Bessie O., Chicago.
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116. Going for the Cows. (Bronze.)
117. Taking the Oath. (Bronze.)
118. Uncle Ned’s School. (Bronze.)
119. Going to the Parson. (Bronze.)
120. One More Shot. (Bronze.)
121. Rip Van Winkle in the Mountains. (Bronze.)
122. Council of War. (Bronze.)
123. Abraham Lincoln. (Plaster.)
124. Rohl-Smith, Carl, Chicago.
125. Mato Wanartaka (Kicking Bear). Chief of the Sioux. (Plaster.)
126. Bust of Henry Watterson. (Bronze.)
127. Ruggles, Tho’o Alice, Boston.
128. A New England Fisherman. (Plaster.)
129. Portrait bust (Italian child). (Bronze.)
130. Young Orpheus. (Plaster.)
131. On the Banks of the Oise. (Bronze.)
133. Young Acrobat. (Bronze.)
134. Baseball Player. (Plaster.)
135. Tried Boxer. (Plaster.)
136. Indian Bear Hunt. (Bronze.)
137. Triebel, Frederick E., Florence.
138. Medallion of Savonarola. (Plaster.)
139. Medallion of Donatello. (Plaster.)
140. Mysterious Music. (Bronze.)
141. Love Knows no Caste. (Marble.)
142. Bust of Gen. John A. Logan. (Marble.)
143. The First Fish. (Marble.)
144. Bust of Rev. Edwin B. Russell. (Marble.)
146. A Dream. (Marble.)
147. Fisherman’s Daughter. (Marble.)
148. The Herald of Peace. (Bronze.)
149. Rhoda. (Marble.)
150. Varney, Luella, Rome.
151. Mark Twain. (Bronze.)
152. Portrait of a Lady. (Marble.)
154. Bust of Colonel Hascal, U. S. A. (Marble.)
155. Bust of a Child. (Marble.)
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158. Medallion of Joseph, Chief of the Nez Perce Indians. (Bronze.)
159. Medallion of Columbia River Indians. (Bronze.)
160. Portrait of J. Alden Weir. (Bronze.)
161. Portrait of a Baby. (Bronze.)
162. Bust of Mozart. (Plaster.)
163. Model for a Caryatid. (Plaster.)
164. Wesselheft, F. G., Boston.
165. Titania and Bottom. (Plaster.)
166. African Head. (Plaster.)
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169. Whitney, Anna, Boston.
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171. Wuertz, Emil H., Chicago.
173. Bas-relief of Abraham Lincoln. (Bronze.)

GROUP 140.

Paintings in Oil.

149. Albright, A. E., Chicago.
150. Morning-glories.
152. Chinese Interior.
153. Allen, Thomas, Boston.
154. Moonsrize.
155. Thoroughbreds. (Owned by Mrs. Thomas Allen, Pittsfield, Mass.)
156. Under the Willows.
157. Coming Through the Wood.
159. Evening at the Lake.
161. Spanish Meadows.
162. Anderson, David J., Woodridge, N. J.
163. Landscape.
UNITED STATES.

Armstrong, Maitland, New York.

158. "White House," Pont Aven, Brittany.

159. Day Dream.

160. Waiting Their Turn.

Baker, Ellen Kendall, Puteaux, France.

161. Sans Souci.

Baker, Mary K., Boston.

162. Chrysanthemums.

Baker, William Bliss (deceased).

163. Silence.

Lent by Thomas B. Clarke, New York.

Barnard, E. H., Boston.

164. Midday.

165. Portrait of E. H. B.


166. Spring. (Owned by Mrs. A. C. C. Bere, London.)

Beaux, Cecilia, Philadelphia.

167. Last Days of Infancy.

168. Portrait of a Boy.

Beck, Carol H., Philadelphia.

169. Portrait of Governor Pattison. (Owned by Hon. R. E. Pattison, Harrisburg, Pa.)

170. Portrait.

Beckwith, Carroll, New York.

171. Mr. Issacson.


Bell, E. A., New York.


Benedict, Enella, Lake Forest, Ill.


Benson, Frank W., Salem, Mass.

175. Figure in White.

176. Portrait in White.

177. Girl with a Red Shawl. (Owned by Mrs. David Kimball, Boston.)


178. An Old Apple Orchard.

179. Along the River Oise.

Bigelow, D. F., Chicago.

180. Lake Champlain and the Adirondacks.


182. Afternoon in the Meadow.

183. Lapping Waves on Quiet Shore.

Blackman, Walter, London.

184. A Capri Belle.

Blakelock, R. A.

185. Moonlight.

Lent by W. M. Laffan, New York.

186. Cloverdale.

Lent by Thomas B. Clarke, New York.


187. The Angel with the Flaming Sword.

188. Christmas Bells.

189. Portrait.

Blennor, Carie J., New York.

190. Contentment.

191. Portrait of El Señor Don Roderigo de Saavedra. (Owned by Roderigo de Saavedra, Jr., Royal Spanish Legation, Washington.)

Bogert, George H., New York.

192. Morning.

193. Moonlight.


194. Fishing Boats Going Out, Isigny; France. (Owned by James H. Dole, Chicago.)

195. Brooklyn Bridge.

196. Portrait of Thomas H., Brooklyn.


197. An English Spring Day.

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199. The Pines of Mauve.

Bregler, Charles, Philadelphia.

200. Portrait of a Woman. (Owned by Mrs. Wm. Bregler, Philadelphia.)


201. Passage of the Red Sea.


203. In a Village at El Biar, Algiers.

204. Day Dreams.

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205. Mount Chocorua, N. H.

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206. The Primrose Way.

Brouwer, T. A., Jr., East Hampton, L. I.

207. Musk Melons.


208. Springtime.


210. The Stump Speech.

211. Training the Dog.

212. Pull for The Shore.

Lent by Isidore Strauss, New York.

213. Homeward Bound.

Lent by W. T. Evans, New York.

214. At the Old Cottage.

Lent by Gilbert Gaul, New York.

215. When we Were Girls.

Lent by E. Asiel, New York.

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216. An Unwilling Model.

Brown, Walter Francis, Venice.

217. Roscona, Sunrise.

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218. Old Poplar Trees.


Back from the Beach, Cape Ann.

221. On the Oise, France.

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222. Mother and Child.

Lent by J. M. Sears, Boston.

223. The Indian and the Lily.

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224. The Head Dress.

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225. The Sculptor and the King.

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226. Noon.

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227. Study of Snowballs. (Owned by Mrs. F. D. Cross, Providence.)

228. Wheat Stacks, Afternoon Sunshine.

229. Goosefield.
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230. Fragment of Mural Decoration for Music Room.  
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231. Girl with Tambourine.  
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234. Church of Guadaloupe, Agua Calientes, Mex.  
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237. Peasant Woman of Alsace.  
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249. An Anchor of Scheveningen. (Owned by Mrs. Harry Chase, St. Louis.)  
250. The Battery Park. (Owned by Mrs. Harry Chase, St. Louis.)  
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255. Portrait of Mrs. E.  
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256. Lilliputian Boats in the Park.  
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<td>Gifford, R. Swain, New York</td>
<td>The Cove Road (Owned by the Detroit Club)</td>
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<tr>
<td>472</td>
<td>Moorlands</td>
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<td>473</td>
<td>The Seaweed Gatherers</td>
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<td>474</td>
<td>Over the Summer Sea</td>
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<td>475</td>
<td>Telegraph Station at Sandy Hook</td>
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<td>476</td>
<td>Salt Works Padan Aram</td>
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<td>477</td>
<td>The Rock of Gibraltar</td>
<td>Lent by Mrs. H. E. Lawrence, New York</td>
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<td>478</td>
<td>Landscape</td>
<td>Lent by J. B. Wheeler, New York</td>
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<td>479</td>
<td>Autumn,        ) Lent by Thomas B.</td>
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<td>480</td>
<td>Nashawena      ) Clarke, New York</td>
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<td>481</td>
<td>Sand Dunes</td>
<td>Lent by Mrs. Robt. Carter, New York</td>
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<td>482</td>
<td>Gill, Marquita</td>
<td>Paris</td>
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<td>483</td>
<td>A Grey Day—Giverny</td>
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<td>484</td>
<td>A Midsummer Morning—Giverny</td>
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<td>Gill, Rosalie Lorraine, New York</td>
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<td>Twilight on St. Ives Bay</td>
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<td>487</td>
<td>Portrait of Miss Inglis</td>
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<td>Gilman, B. F., Philadelphia</td>
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<td>489</td>
<td>Portrait</td>
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<td>490</td>
<td>Goldman, Martha, Pittsburg</td>
<td>Study, Head</td>
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<td>491</td>
<td>Gottwald, F. C., Cleveland</td>
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<td>492</td>
<td>Sunday on the Docks</td>
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<td>493</td>
<td>Along the Docks</td>
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<td>494</td>
<td>Graves, Abbott, Boston</td>
<td>Poppies</td>
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<td>Grayson, Clifford P., Philadelphia</td>
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<td>496</td>
<td>A Rainy Day at Pont Aven</td>
<td>(Owned by the Art Club, Philadelphia.)</td>
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<td>497</td>
<td>November,        (Owned by the Art Club,</td>
<td>Philadelphia.</td>
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<td>498</td>
<td>Idle Hours</td>
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<td>Green, C. A. Brooklyn</td>
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<td>500</td>
<td>Frances</td>
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<td>501</td>
<td>Green, Frank Russell</td>
<td>My Sweetheart</td>
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<td>502</td>
<td>My Sweetheart</td>
<td>Lent by Thomas B. Clarke, New York</td>
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<td>503</td>
<td>Greene, Lillian, Boston</td>
<td>A Brittany Landscape</td>
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<td>Greenwood, Joseph H., Worcester</td>
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<td>505</td>
<td>Grenet, Edward, Levallois-Perret</td>
<td>Autumn Oakes</td>
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<td>506</td>
<td>Evening Harmony</td>
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<td>Grandmother's Return</td>
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<td>508</td>
<td>Forgotten</td>
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<td>509</td>
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<td>510</td>
<td>Portrait Study</td>
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<td>511</td>
<td>Gross, P. A., Paris</td>
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<td>Essegney near Charmes, Vosges</td>
<td>Light of the Incarnation</td>
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<td>513</td>
<td>A Rainy Day</td>
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<td>514</td>
<td>Grover, Oliver Dennett, Chicago</td>
<td>Thy Will be Done</td>
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<td>515</td>
<td>The Charge</td>
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<td>Homer, Carl, St. Paul</td>
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<td>Arcesini ab Angelis</td>
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<td>Temptation of St. Anthony</td>
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<td>Hale, Ellen Day, Boston</td>
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<td>520</td>
<td>Under the Vine</td>
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<td>521</td>
<td>Bessy</td>
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<td>Hale, Philip, Paris</td>
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<td>523</td>
<td>Old Woman Reading</td>
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<td>Hallowell, Maria, West Medford, Mass</td>
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<td>525</td>
<td>Portrait</td>
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<td>526</td>
<td>Portrait, (Owned by Miss A. N. Hallowell)</td>
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<td>527</td>
<td>Portrait of the Artist's Wife</td>
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<td>Harper, W. St. John, Easthampton, L. I.</td>
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<td>529</td>
<td>Autumn, Easthampton</td>
<td>Lent by W. T. Evans, New York</td>
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<td>530</td>
<td>Harris, Charles X., New York</td>
<td>The Mowers, (Owned by Frederick James, New York)</td>
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<td>531</td>
<td>Harrison, Alexander, Paris</td>
<td>In Arcadia</td>
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<td>532</td>
<td>The Bathers</td>
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<td>533</td>
<td>The Surprise (in the Forest of Compiegne)</td>
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<td>534</td>
<td>The Return of the Mayflower</td>
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<td>Hartwich, Herman, Munich</td>
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<td>536</td>
<td>Bleachery in Lombardy</td>
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<td>537</td>
<td>Harwood, J. T., New York</td>
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<td>538</td>
<td>Preparing Dinner</td>
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<td>539</td>
<td>Hasbrook, D. F., New York</td>
<td>A Winter Morning in the Catskills.</td>
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<td>540</td>
<td>(Owned by E. W. Gillett, Chicago.)</td>
<td>(Owned by E. W. Gillett, Chicago.)</td>
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<td>541</td>
<td>Haskell, Ida C., New York</td>
<td>Mother Love</td>
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<td>542</td>
<td>Hassam, Childe, New York</td>
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<td>543</td>
<td>Autumn Landscape</td>
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<td>544</td>
<td>On the Way to the Grand Prix</td>
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<td>545</td>
<td>Midsummer Morning</td>
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<td>546</td>
<td>Hats Station, Rue Bonaparte, Paris</td>
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<tr>
<td>547</td>
<td>Snowy Day on Fifth Avenue</td>
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</tbody>
</table>
578. Sunlight on the Coast.
    Lent by John G. Johnson, Philadelphia.

579. Horsfall, Bruce, Clinton, Iowa.

580. The Musical Hour.

581. Breaking Home Ties. (Owned by George Harrison, Devon, Pa.)

582. Bringing Home the Bride.

583. When Hope was Darkest.


585. Return of the Herd.


587. Morning, Karton Hof Meadows, Holland.

588. In the Orchard.


590. Fourth of July Parade. (Owned by W. H. Fuller, New York.)


592. The Goldsmith's Daughter.

593. Ellamay, New York.


595. Portrait of Elliott F. Shepard, Jr.

596. Inness, George, Montclair, N. J.

597. Summer Evening.

598. In the Orchard.

599. Septemher Afternoon.

600. Twilight.


602. Near Marshfield.

603. Sunburst.

604. Millpond.

605. Delaware Valley.

The above fourteen paintings were lent by Thomas B. Clarke, New York.

606. A Day in June.

607. Ipsen, Ernest, Boston.


610. Sweet Sixteen.

611. Portrait of Herbert Herkomer.


613. Portrait of a Lady.

614. James, Frederick, New York.

615. Portrait of Brittany Fishermen.

616. James, Frederick, New York.

617. An Impromptu Affair in the Days of "The Codex."

618. Jamison, Henrietta L., Columbus.

619. The Lanterns.


621. Still Life.


623. Apple Trees in Sunlight. (Owned by Mrs. H. C. Johns, Decatur.)


625. Portrait of Dr. McCosh.

626. Lent by Alex. Maitland, New York.

627. The Nantucket School of Philosophy.

WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

621. The Cranberry Harvest, Nantucket Island.
   Lent by Auguste Richard, New York.
622. Portrait of a Girl.
   Lent by D. L. Einstein, New York.
623. Two Men.
626. Study in a Granada Garden.
627. Moorish Fountain in the Church of Santa Maria del Alhambra.
628. Exchanging Confidences.
   Lent by Thomas B. Clarke, New York.
629. On the White Sand Dunes.
   Lent by John Gellatly, New York.
630. The Favorite Grandchild.
   Jones, H. Bolton, New York.
631. Spring.
632. The Flax Breaker.
   Lent by R. J. Menefee, Louisville.
   Kappes, Alfred.
   Lent by Thomas B. Clarke, New York.
634. Tattered and Torn.
   Lent by Boston Art Club.
   Kavanagh, John, Cleveland.
635. Washer-women.
   Keith, Mrs. Dora Wheeler, New York.
636. Portrait of Lawrence Hutton. (Owned by Lawrence Hutton, New York.)
   Keith, William, San Francisco.
637. Autumn Sunset.
   Keller, Charles F., Munich.
638. Canal at Schleisheim, near Munich.
   Kellogg, Alice D., Chicago.
639. Intermesso.
640. The Mother.
   Kendall, Wm. Sargeant, New York.
641. The Glory of Fair Promise.
642. Saint Yves, Pray for Us.
   Ketcham, Susan M., New York.
   King, James S., Upper Montclair, N. J.
644. Evening Glow.
   Knight, Arthur, Milwaukee.
645. Moonrise in Brittany.
   Knight, D. Ridgway, Paris.
646. Hailing the Ferry. ( Owned by the Academy of Fine Arts, Philadelphia.)
   Koehler, Robert, New York.
647. The Strike.
648. The Carpenter's Family.
   Kohler, Robert, New York.
649. At the Cafe.
   Koopman, August B., New York.
650. Asking a Blessing.
651. The Orphans.
652. Dreaming of One Afar.
   Kronberg, Louis, Boston.
653. Behind the Footlights.
   LaFarge, John, New York.
654. Venetian Guitar Player.
655. Visit of Nicodemus to Christ.
656. Study of a Boy’s Head.
   Lent by Edward W. Hooper, Cambridge, Mass.
657. Half of the Wise Men From the East.
   Lent by the Museum of Fine Arts, Boston.
   Lamb, Ella Condie, New York.
658. The Advent Angel.
   Lamb, F. M., Houghton, Mass.
659. End of the Trail.
   Lambert, John, Jr., Philadelphia.
660. Portrait. (Owned by Mrs. Lambert, Philadelphia.)
661. A Commissioner.
662. Landscape, Midday.
   Lamphert, Emma E., Rochester.
663. Behind the Dunes.
664. A Hillside in Picardy.
   Lathrop, Clara W., Northampton.
665. At the Flower Market.
   Lee, Laura, Boston.
666. Retrospection.
   Leigh, William R., Munich.
667. End of the Play.
667 1/2. A New Acquaintance.
   Loomis, Chester, Englewood, N. J.
668. Memoria.
669. Hester.
   Lorenz, Richard, Milwaukee.
670. Alone.
   Loring, Francis W., Florence.
671. Great Bridge at Chioggia.
672. A Portrait.
   Lent by W. T. Evans, New York.
673. Love Disarmed.
   Lent by Gardiner G. Hubbard, Washington, D. C.
674. A Woodland Glade.
675. In An Old Garden.
   Lent by Dr. C. B. Kelsey, New York.
   Lownes, Anna, Philadelphia.
676. The Raven.
   Lutz, Lewis C., Cincinnati.
678. Portrait of J. H. Gest. ( Owned by Mrs. J. H. Gest.)
   Lyman, Joseph, New York.
680. Early Snow in the Adirondacks.
681. Love Awakening Memory. ( Owned by Elizabeth Howell, Boston.)
682. The Annunciation. ( Owned by D. P. Kimball, Boston.)
   MacDowell, Elizabeth, Philadelphia.
683. Day Dreams. ( Owned by Walter MacDowell, Philadelphia.)
   MacMonnies, Mary Fairchild, Paris.
684. June Morning.
   Lent by St. Louis Museum of Fine Arts.
   Tea al Fresco.
   Major, Ernest L., Boston.
686. Youth.
   St. Genevieve.
687. Portrait. ( Owned by Mrs. S. Clark, Williamstown.)
THE OFFICIAL DIRECTORY

DEPARTMENT K.—FINE ARTS.

| Marr, Carl, Munich.                                                                 |
| Summer Afternoon. ( Owned by Mrs. Hearst, Washington.)                            |
| 689. The Flagellants.                                                            |
| Martin, Homer D., New York.                                                     |
| Behind the Dunes, Lake Ontario.                                                  |
| 691. Mussel Gatherers at Villerville, Normandy. ( Owned by F. L. Gunther, New York.) |
| 692. Old Manor at Criquebeufe. ( Owned by Dr. D. L. Simpson, New York.)        |
| 693. Head Waters of the Hudson. ( Lent by Thomas B. Clarke, New York. )          |
| Mathews, Arthur F., San Francisco.                                              |
| Judith.                                                                        |
| Maynard, George Willoughby, New York.                                           |
| Civilization. ( Owned by the National Academy of Design, New York. )           |
| 696. Portrait of F. D. Millet. ( Owned by F. D. Millet, New York. )              |
| 697. Flora.                                                                     |
| 698. Pomon.                                                                     |
| Maynard, Guy F., Chicago.                                                       |
| 700. Looking Out. ( Owned by P. C. Maynard, Chicago. )                          |
| 701. Dutch Interior. ( Owned by P. C. Maynard, Chicago. )                        |
| Summer Time.                                                                   |
| Afternoon, Old San Luis Rey Mission, Cal.                                       |
| 704. Morning at Giverny, France.                                                 |
| 705. Judgment of Paris. ( Owned by Albert A. Munger, Chicago. )                 |
| 706. The Witches.                                                               |
| 707. The Absent One. ( All Soul's Day. )                                        |
| 708. Telling Ghost Stories.                                                     |
| Mcllhenney, C. Morgan, Shrub Oak, N. Y.                                         |
| 709. On the Beach.                                                              |
| Meeks, Eugene, Florence.                                                        |
| 710. Macaroni Hot.                                                              |
| 711. Ready for the Chase.                                                       |
| Melchers, Gari, Paris.                                                           |
| 712. Communion.                                                                 |
| 713. The Sermon. ( Owned by Potter Palmer, Chicago. )                           |
| 714. The Pilots.                                                                |
| 715. The Nativity.                                                              |
| 716. Skaters.                                                                   |
| Portrait of Mrs. H.                                                             |
| 717. Married.                                                                   |
| Merritt, Mrs. Anna Lea, Andover, Hampshire, England.                            |
| 718. Love Locked Out.                                                           |
| Tunisian Market.                                                                |
| Lent by H. R. Astor Carey.                                                      |
| 721. Road to the Village, Normandy. Summer Twilight.                            |
| Meteyard, T. B., Paris.                                                         |
| 722. Road to Giverny.                                                           |
| Miller, Charles H., New York.                                                   |
| 723. The East River, New York.                                                   |
| Millet, F. D., New York.                                                        |
| 725. Antony Van Corlaer, the Trumpeter.                                         |
| 726. Old Harmonies.                                                             |
| 727. Sweet Melodies. ( Owned by C. L. Freer, Detroit. )                         |
| 728. Rook and Pigeon.                                                           |
| At the Inn.                                                                    |
| 730. Lent by Mrs. C. M. Raymond, New York.                                      |
| 731. A Difficult Duet.                                                          |
| 732. The Window Seat.                                                           |
| 733. Lent by Charles Fairchild, Boston.                                        |
| Minor, Robert C., New York.                                                     |
| Autumn.                                                                       |
| 734. Evening.                                                                   |
| 735. The Close of Day.                                                          |
| 736. Lent by W. T. Evans, New York.                                             |
| Moeller, Louis.                                                                |
| 737. Stubborn.                                                                 |
| 738. Searching.                                                                |
| 739. Lent by Thomas B. Clarke, New York.                                        |
| Moran, P. See 1153%                                                            |
| 741. The White Squadron's Farewell Salute to Commodore John Ericsson.          |
| 743. Life Saving Patrol, New Jersey Coast.                                     |
| 744. Back from the Postoffice.                                                  |
| Morris, Jennie H., Mooresdown, N. J.                                           |
| 745. A Corner in a Turkish Bazaar.                                              |
| 746. Still Life.                                                                |
| 748. Rose Harvest.                                                              |
| 750. Arcadia.                                                                  |
| 751. Lent by W. T. Evans, New York.                                             |
| 752. Scheherazade. (Arabian Knights.) ( Lent by Thomas B. Clarke, New York. )   |
| 753. The Evening Breeze.                                                        |
| Muhrman, Henry, London.                                                         |
| 754. The Two Trees.                                                             |
| 756. The Rising Moon.                                                           |
| 757. Munsell, Albert H., Boston.                                                |
| 758. The Sea.                                                                   |
| 759. Danger Ahead.                                                              |
| 760. Beacon Hill in Winter.                                                     |
| 761. Murphy, J. Francis, New York.                                              |
| 762. November Grays.                                                            |
| 763. The Hazy Morn.                                                             |
| Near Factory Hollow, Turner's Falls, Massachusetts.                            |
| 765. Mott Haven, Canal, New York City.                                          |
United States.

Paxton, Wm. M., Boston.

Paulus, Francis P., Munich.

Pierce, Charles Sprague, Auvers Sur Oise, France.

Mother and Child. (Owned by Hon. Lewis Emery, Bradford, Pa.)

The Annunciation.

The Shepherdess.

A Village Funeral (Brittany).

Portrait of Mrs. P.

Portrait of Mrs. P.

Peck, Orrin, Arcis Strasse, Munich.

Love's Token. (Owned by Mrs. P. A. Hearst, Washington.)

Peixotto, George D. Maduro, Paris

Portrait of a Child. (Owned by Senator J. P. Jones, California.)

Penfold, Frank C., Buffalo.

Herring Season, Pas de Calais.

Peralta, S. B. de, Boston.

In the Fields.

Perry, Lila C., Boston.

Portait of a Child. (Owned by Roger Wolcott, Boston.)

Portrait of Alice.

Child in a Window.

Child with Violoncello.

Little Angèle.

Reflection.

An Open Air Concert.

Perry, Roland Hinton, Paris.

Portait of Mrs. Perry.

Peters, Clinton, Paris.

Portrait of Dr. George J. Bull, (Owned by Dr. George J. Bull, Paris.)

Portrait of Mlle. N. C.

Peyraud, F. C., Chicago.

Evening.

Autumn Morning.

Phelps, Helen Watson, New York.

Abandon.


Sunday Morning.

Early Morning.

The Road to Concarneau.

The Edge of Winter.


Pierce, Charles F., Boston.

A New England Pasture.


Winter Landscape.

Early Spring.

Poore, H. R., Philadelphia.

The Bridge.

Nativity.

Pritchard, J. Ambrose, Boston.

Prayer.

Putnam, Sarah G.

Portraitt. (Owned by Elizabeth R. Hooper, Boston.)


Twilight at Grèz. (Owned by T. J. Ramsdell, Manistee, Mich.)

Portrait of Mrs. Reynolds. (Owned by T. J. Ramsdell.)

Raught, John Willard, New York.

The Highway, Brittany.

Gorse Cutters, Brittany.
Where Waves and Sunshine Meet.

Reid, Robert, New York.
Vision of Sta. Angela d'Angant.
Red Flower.
Portrait of Little Miss S. ( Owned by Mrs. L. H. Stevens, New York.)
Her First Born.

Awaiting the Absent.
Washed Ashore.
Portrait.
Portrait.
Landscape, Evening Clouds.
Richards, Samuel, Denver.
Blissful Hours. ( Owned by David Gebhart, Dayton, Ohio.)
The Hour of Prayer. ( Lent by Mrs. L. Richards, Denver.
Richards, William T., Newport.
February. ( Owned by Edward H. Coates, Philadelphia.)
Old Ocean's Gray and Melancholy Wave. ( Owned by Edward H.
Coates, Philadelphia.)
Richardson, F. H., Boston.
Breton Widow at Prayer.
My Portrait.
My Mother's Portrait.
Before the Looking Glass.
Decorative Panel.
Robinson, Theodore, Giverny, France.

The Layette.
Roman Fountain.
Rolshoven, Julius, Paris.
A Spanish Dancer.
Hall in a Doge's Palace, Venice.
Two Types, Sotto Marina, near Venice.
Moonrise (Normandy).
Rose, Guy, New York.
The End of the Day.
Potato Gatherers.
Food for the Laborers.
Rosenthal, Toby, Munich.
A Dancing Lesson of Our Grandmothers.
Rudell, P. E., Greenwich, Conn.
A November Day.
Autumn.
Rutter, Henry Orme, Auburndale, Mass.
Old Breton Farmhouse. ( Evening).
Sargent, John S., London.
Mother and Child. ( Owned by Edward Davis.)
Portrait of Ellen Terry as Lady Macbeth, ( Owned by Henry Irving, London.)
Portrait.
Study of an Egyptian Girl.
Portrait of Mrs. Inches.
Portrait. ( Owned by F. S. Pratt, Worcester, Mass.)

Portraits.
Lent by Augustus St. Gaudens, New York.
Lent by Mr. Dunham, New York.
Lent by E. F. Shepard, New York.
Sartain, Emily, Philadelphia.
Marie.
Sartain, Wm., New York.
Sand Dunes of Annisquam.
Nubian Sheikh.
Schilling, Alexander, New York.
A Day in Spring. ( Owned by Alexis Ludwig, Leonia, N. J.)
Landscapes. ( Owned by A. Ludwig, Leonia, N. J.)
Schwill, William, Munich.
Nearer, My God, to Thee.
Scott, Frank Edwin, Paris.
Parisian Street Scene.
Scott, Jeannette, Paris.
Hollyhocks.
Senat, Prosper L., Philadelphia.
On the Nile near Beni Hassan.
In the Gulf of Aijaccio.

Sewell, Mrs. Amanda Brewster, New York.

Pleasures of the Past.
Sappho.
Portrait of Mrs. Boudinot Keith. ( Owned by Mrs. J. M. Wheeler, New York.)
Washing Place in the Gatinais.
Portrait of Mother and Son.
A Sylvan Festival.
By the River.
Sewell, Robert, V. V., New York.
Diana Hunting.
Boys Bathing.
Winter.
In Shanty Town.
Sea Urchins.
Sharp, J. H., Cincinnati.
Going to the Race.
Shepley, Annie B., New York.
The Wonderful Story.
Sheppard, Warren, Brooklyn.
The Restless Sea. ( Owned by T. S.
Fassett, Tonawanda, N. Y.)
Shields, Thomas W., Brooklyn.
Cavalier, Time of Louis XIII.
Shirlaw, Walter, New York.
Tuning the Bell.
Sheep Shearing in the Bavarian High-

lands.
Rufina. ( Owned by Century Associa-
tion, New York.)
Shurtleff, R. M., New York.
Looking East at Sunset.
In Autumn Woods.
Simmons, Edward E., New York.
Early Moonlight Upon Bay St. Ives.
Darby and Joan.
The Carpenter's Son.
Spring Study.
Slade, Emily, New York.
Portraits of Miss C. C. C.
### UNITED STATES.

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Artist</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>921</td>
<td>Mill Pond at Ridgefield, Conn.</td>
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<tr>
<td>922</td>
<td>A Lush Place. (Owned by Washington Wilson, New York.)</td>
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<td>923</td>
<td>From West Mountain, Conn.</td>
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<td>924</td>
<td>Sioux Lovers. (Owned by E. Reuel Smith, New York.)</td>
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<td>925</td>
<td>Driven Back.</td>
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<td>926</td>
<td>Smith, E. Boyd, Aüvers Sur Oise, France.</td>
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<td>927</td>
<td>Return From the Fields.</td>
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<td>928</td>
<td>Landscape at Waterford, Conn.</td>
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<td>929</td>
<td>Old Oaks at Waterford.</td>
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<td>930</td>
<td>Young Girl of Feuille.</td>
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<td>931</td>
<td>Sonntag, Wm. L., New York.</td>
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<td>932</td>
<td>On the Muscatatuck.</td>
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<td>933</td>
<td>Stephens, Alice Barber, Philadelphia.</td>
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<td>934</td>
<td>Rainy Day Effect in Philadelphia.</td>
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<td>935</td>
<td>Harvesting on the Meadow.</td>
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<td>937</td>
<td>Baptism.</td>
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<td>939</td>
<td>Portrait of the Viscountess de Gouy d'Arcy. (Owned by the Viscountess de Gouy d'Arcy, Paris.)</td>
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<td>940</td>
<td>Portrait of the Baroness Benoist Mechin. (Owned by the Baron Benoist Mechin, Paris.)</td>
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<td>941</td>
<td>The Hunt Ball. (Owned by Essex Club, Newark.)</td>
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<td>942</td>
<td>Stokes, F. W., Philadelphia.</td>
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<td>943</td>
<td>The Orphans.</td>
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<td>944</td>
<td>Story, Julian, Paris.</td>
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<td>945</td>
<td>Mlle. de Sombreuil (Episode of the Revolution).</td>
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<td>946</td>
<td>Portrait of My Father.</td>
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<td>947</td>
<td>Portrait of Mine. Eames Story.</td>
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<td>948</td>
<td>Strickler, John R., Brooklyn.</td>
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<td>949</td>
<td>Interrupted.</td>
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<td>950</td>
<td>Stone, J. M., Boston.</td>
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<td>951</td>
<td>Leukopis.</td>
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<td>952</td>
<td>A Summer Dream.</td>
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<td>953</td>
<td>Sword, J. B., Philadelphia.</td>
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<td>954</td>
<td>Off the Scent.</td>
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<td>955</td>
<td>Tarbell, Edmund C., Boston.</td>
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<td>956</td>
<td>The Portrait.</td>
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<td>957</td>
<td>Thayer, Abbott H., Scarboro, N. Y.</td>
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<td>958</td>
<td>Virgin Enthroned.</td>
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<td>959</td>
<td>Portrait of a Lady.</td>
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<td>960</td>
<td>Brother and Sister.</td>
<td>By A. A. Carey, Boston.</td>
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<td>962</td>
<td>Young Girl Spinning (Biskra).</td>
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<td>963</td>
<td>An Arab Goat Herd.</td>
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<td>Banks of the Afn Mili.</td>
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<td>Waiting for Supper.</td>
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<td>Path in the Oasis of Biskra.</td>
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<td>967</td>
<td>Thomas S. Seymour, Paris.</td>
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<td>968</td>
<td>An Innocent Victim.</td>
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<td>969</td>
<td>Thompson, Wordsworth, New York.</td>
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<td>970</td>
<td>The Deserted Inn.</td>
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<td>971</td>
<td>In the Sweet Summer Time.</td>
<td>By George H. Babcock, Plainfield, N. J.</td>
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<td>972</td>
<td>Tiffany, Henry, Philadelphia.</td>
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<td>973</td>
<td>A Precious Bit.</td>
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<td>974</td>
<td>Up Hill. (Owned by Miss Moss, Philadelphia.)</td>
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<td>975</td>
<td>Resting. (Owned by Mrs. E. A. Thouron, New York.)</td>
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<td>976</td>
<td>Etruria.</td>
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<td>977</td>
<td>A Rainy Prospect.</td>
<td>By Howard Hancock, Philadelphia.</td>
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<td>978</td>
<td>Patchen-Soup. (Owned by Caleb Cresson, Philadelphia.)</td>
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<td>Throop, Frances Hunt, New York.</td>
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<td>Spring Carnations.</td>
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<td>982</td>
<td>Tiffany, Louis C., New York.</td>
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<td>Market at Nuremberg.</td>
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<td>986</td>
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<td>Tolman, Stacy, Boston.</td>
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<td>Tompkins, Clementina M. G., New York.</td>
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<td>A Beginner in Art.</td>
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<td>Tompkins, F. H., Boston.</td>
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<td>992</td>
<td>Mother and Child. (Owned by Boston Art Club.)</td>
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<td>993</td>
<td>Good Friday.</td>
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<td>Towner, Flora L., Albany.</td>
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<td>995</td>
<td>Portrait.</td>
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<td>996</td>
<td>Tracy, John M., Hempstead, L. I.</td>
<td>By C. L. Freer, New York.</td>
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<td>997</td>
<td>Southern Field Trails, 1891.</td>
<td>By C. L. Freer, New York.</td>
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<td>1000</td>
<td>Trotter, Mary K., New York.</td>
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<td>Lamplight.</td>
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<td>1003</td>
<td>Tryon, D. W., New York.</td>
<td>By C. L. Freer, Detroit.</td>
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<td>1004</td>
<td>Sunset at Sea. (Owned by C. L. Freer, Detroit.)</td>
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<td>1005</td>
<td>Rising Moon, Autumn.</td>
<td>By C. L. Freer, Detroit.</td>
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<td>1006</td>
<td>Springtime.</td>
<td>By C. L. Freer, Detroit.</td>
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<td>1007</td>
<td>Morning. (Owned by John Newell, Chicago.)</td>
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<td>1008</td>
<td>Tryon, D. W., New York.</td>
<td>By C. L. Freer, Detroit.</td>
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1029. Weary. ( Owned by C. L. Hutchison, Chicago.)
Van der Weyden, Harry, Paris.
1030. Katwijk Herring Boats.
Van Elten, Kruseman, New York.
1031. Late Autumn.
Van Gorder, L. E., New York.
1032. The Mall Terrace, Central Park.
1033. Head of a Young Girl.
1034. Indian Head.
Vedder, Elihu, Rome.

1035. Delilah.
1036. Samson.
1037. Morning.
1038. A Venetian Model.
Lent by Davis Johnson, New York.
1039. The Cup of Love.
Lent by Mrs. A. F. Rondebusch, New York.
1040. The Young Marsyas.
Lent by Mrs. A. F. Rondebusch, New York.
1041. A Soul in Bondage.
Lent by Mrs. A. F. Rondebusch, New York.
1042. In the Lair of the Sea Serpent.
Lent by the Museum of Fine Arts, Boston.
1043. The Roe's Egg.
Lent by Martin Brimmer, Boston.
1044. The Fisherman and the Genie.
Lent by Martin Brimmer, Boston.
Vezin, Fred, Munich.

1045. Dogs.
1046. Boys in a Boat.
1048. Fields in October.
Vinton, Frederick P., Boston.
1049. Portrait of a Lady.
1050. Portrait of Augustus Flagg. ( Owned by Augustus Flagg, Boston.)
1051. Portrait of Theodore Chase. ( Owned by Theodore Chase, Boston.)
1052. Portrait of C. C. Langell.
Volk, Douglas, Minneapolis.
1053. Portrait of Madam X.
1054. Puritan Girl.
Lent by Thomas B. Clarke, New York.
Vonnah, Robert W., Philadelphia.

1056. Early Morning.
1057. November.
1058. Viola.
1059. Moist Weather.
1060. Portrait of Dr. J. M. DaCosta. ( Owned by Jefferson College, Philadelphia.)
1061. Blanche.
1062. Duxbury Bay.
1063. Riva degli Schiavoni.
1064. A Dull Day.
1065. "Now, Behave Pretty."
WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

1066. Studio Comrade. (Owned by Pennsyl-
vania Academy of the Fine Arts.) Wade, Caroline D., Chicago.


1068. Over all the Trees is Rest. Whiteman, Boston.


1075. The Potter. (Own. by W. A. Shaw, Sharpsburg, Pa.) Wall, A. Bryan, Pittsburg.


1078. Hagar and Ishmael. (Own. by Pennsylvania Academy of the Fine Arts.) Webster, C. T., Cincinnati.


1100. The Princess of the Land of Por-

1101. The Fur Jacket. (Own. by Alex-

1102. Nocturne, Valparaíso. (Own. by Hon. Sir John Charles Day, Lon-


1104. Portrait. Lent by A. J. Cassatt, Phila-


1109. Portrait of Oliver Wendell Holmes. (Own. by College of Physicians, Philadelphia.) Whittaker, J. J., Minneapolis.


1115. The Old Willow Tree. Wickenden, Robert J., New York.

1116. Clouds and Sunshine. (Own. by Chas. E. Dingee, Brooklyn.) Wicks, S., New York.


1118. The Old Willow Tree. Wight, T., New York.


1122. Sunlight in the Studio. (Own. by Charles D. Miller, Jersey City.) Wiegand, J. C., Mt. Vernon, N. Y.

1123. Portrait. Wiegand, J. C., Mt. Vernon, N. Y.

1124. Sunshine and Flowers. Wiegand, J. C., Mt. Vernon, N. Y.


1132. Study Head of a Young Lady. Woodwell, Joseph P., Pittsburgh.


1138. Washwomen, Nemours, France.
### GROUP 141.

#### Paintings in Water Colors.

- **Abby, E. A.**
  - Measure for Measure. (Owned by Wm. Congdon, New York.)
- **Allen, Thomas, Boston.**
  - Portrait of Ruined Mission, San Jose, Texas.
- **Baker, J. Elder, New York.**
  - Chrysanthemums.
- **Bellows, A. F. (deceased).**
  - Sunday Afternoon in New England.
- **Birney, William Verplanck, New York.**
  - Backyard Pets.
- **Blaney, Dwight, Boston.**
  - The Temple of Neptune, Paestum, Italy.
- **Bisfield, Edwin H., New York.**
  - The Duo. (Lent by Mrs. John H. Sherwood, Brooklyn.)
  - Santa Maria Salute, Venice.
- **Bradley, Horace, New York.**
  - A Glimpse of Chase’s Studio.

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#### Carved and Painted Furniture.

- **Bradley, Susan H., Philadelphia.**
  - Mount Monadnock, New Hampshire. (Owned by Miss Sears, Boston.)
- **Bredin, Christine A., Cincinnati.**
- **Brooks, A. F., Chicago.**
  - William Blashfield, Canaan, Conn.
  - Dutch Boats at Rotterdam.
  - Gate of Justice, Cairo.
  - Toilers of the Sea.
  - Pandora. (Lent by W. T. Evans, New York.)
- **Clusmann, William, Chicago.**
- **Curran, C. C., New York.**
  - Cupid Asleep.
- **Daingerfield, Elliott, New York.**
- **Dana, James E., Philadelphia.**
- **Gruyere.**
  - The Arm of Amont, Etretat, Normandy.
  - Street in Morat, Switzerland.
  - A Doorway in Arles, South of France.
- **Dawson, Arthur, Chicago.**
  - When Evening Twilight Gathers Round.
- **Dixey, Ellen Sturgis, Boston.**
- **Dresden in January.**
- **Drake, W. H., New York.**
- **Eaton, C. Harry, New York.**
- **Eaton, Charles Warren, New York.**
  - The Witching Hour.
- **Edward, George Wharton, New York.**
  - An Interesting Subject.
UNITED STATES.

1249. Melody.
   Ihlefeld, Henry, New York.

1250. My Puppy.
   Jones, Annie W., Chicago.

1251. Easter Lilies.
   Jones, Francis C., New York.

1252. Waiting.
   Jones, H. Bolton, New York.

1253. Winter.
   Lent by J. C. Nicoll, New York.

1254. Early Snow.

1255. Winter.
   Lent by J. C. Nicoll, New York.

1256. Midnight.
   Kappes, Alfred, Van Cortlandt, N. Y.

1257. Apple Pie.


1259. Water Lilies.
   Lent by J. M. Sears, Boston.

1260. Just Flowers.
   Lent by J. M. Sears, Boston.

1261. A Breadwinner.
   Lampert, Emma E., Rochester.

1262. Through the Meadows in Holland.
   Lent by C. Louise Imlach New York.

1263. First Day of School.

1264. Lane of Willows.
   Lungren, F. H., Cincinnati.

1265. A Snowy Evening.
   Manley, Thomas R., New York.

   Maynard, George Willoughby, New York.

1267. Sirens. (Owned by F. G. Bourne, New York.)

1268. A Sea Witch.
   McCchesney, Clara T., New York.

1269. Still Life.
   Lent by the Old Cobbler.

1270. McLhenney, C. Morgan, Shrub Oak, N. Y.

1271. Moonrise.


1273. Old Friends.
   Lent by T. B. Clarke, New York.

1274. The Shepherd and His Flock.
   Lent by Charles, New York.

1275. Evening Pastoral.

1276. Willows and Sheep.
   Millet, F. D., New York.

1277. Roman Maiden.
   Lent by Henry G. Marquand, New York.

1278. Moonlight.
   Minor, Robert C., New York.

1279. November Evening.
   Needham, Charles Austin, New York.

1280. A Dream of Autumn.
   Nicholls, Rhoda Holmes, New York.

1281. The Scarlet Letter.

1282. Chrysanthemums.

1283. Washing Day.
   Lent by Luis J. Francke, New York.

1284. Evening After a Gale.

1285. During a Storm.

1287. Twilight, Late Autumn.
1288. Frost.
    Parrish, Clara Weaver.
1289. A Study of a Southern Negro.
    Pattison, James William, Jacksonville, Ill.
1290. East Gloucester Ferry Landing.
    Perrie, Bertha E., New York.
1291. Meadow in Spring.
    Pitkin, Caroline W., New York.
1292. Bound for the Banks.
    Pomey, Grace V.
1293. Home of the Bullfrog.
    Powers, Ellen, Florence.
1294. Convolvulus.
    Rascovich, Robert, Chicago.
1295. Canal in Venice.
1296. Market Day in Thun, Switzerland.
1297. The Reef.
    Rice, H. M.
1298. Interior.
    Richards, William T., Newport, R.I.
1299. An Atlantic Beach.
    Rix, Julian, New York.
1300. Buttonball Trees.
    October Day.
    Robinson, Will S., Philadelphia.
1301. Arrival of the Boats, Coast of Holland.
1302. In the Harbor (sunlight effect).
    Rotch, Arthur, Boston.
1303. Limburg Cathedral.
    Satterlee, Walter, New York.
1304. Adirondack Trout.
    Garden Weeds.
    Sawyer, Wallace.
1305. Bourboule Washerwoman.
    Schilling, Alexander, New York.
1306. Autumn Evening.
    Scott, Mrs. E. M., New York.
1307. Field of Early Spring.
    Roses.
1308. Still Life.
    Rose.
1309. White Rose.
1310. Summer Roses.
    Senat, Prosper L., Philadelphia.
1311. Capri from Sorrento.
    A Corner in San Remo.
1312. The River Bend at Ventimille.
    Head of the Creek, Kenebunkport, Me.
1314. September.
    Lent by Boston Art Club.
    In the Orchard.
1315. Sunlight in the Orchard.
    Sillsbee, M., Boston.
1316. Monadnock.
    Smedley, W. T.
1317. "There could be no doubt, thought
    Miss Latymer, that it was to be
    the Intense Elderly."
    Lent by Charles Scribner's Sons, New York.
1318. "Up Among the Great Iron Arches."
    Lent by Charles Scribner's Sons, New York.
1319. A Lazy Companion.
1320. Jackson Park—part of the Exhibition
    Grounds.
    Lent by Charles Scribner's Sons, New York.
1321. Entrance to the Hall of Mines, in
    process of construction.
    Lent by Charles Scribner's Sons, New York.
1322. Near the Hall of Mines.
    Lent by Charles Scribner's Sons, New York.
1323. The Administration Building.
    Lent by Charles Scribner's Sons, New York.
1324. Site for the Statue of the Republic.
    Lent by Charles Scribner's Sons, New York.
    Pink and White.
    Lent by Helene de Cordova, New York.
    Venetian Fishing Boats.
    Lent by Charles Scribner's Sons, New York.
1327. The Rialto.
    Lent by Charles Scribner's Sons, New York.
1328. After the Catch.
    In the Fishing Quarter.
    Smith, Joseph Lindon, Boston.
    Bartholomew Coleono.
    Crossing the Bar.
    Stackpole, Alice, Boston.
1330. Late Afternoon in Beverly, Mass.
    Tewksbury, Fanny W., Boston.
    Thulstrup, T., de, New York.
1332. Swedish Interior.
    Mouflik.
    Cobbiers at Bouicrik, Algeria.
1334. Street in Algiers.
    Cathedral at Morlaix.
    Street in Algiers.
1335. Feeding the Flamingoes.
    Summer.
    Flood Tide.
1337. Oleanders and Lilies.
    Old Japan (a).
1338. Old Japan (a).
    Twachtman, J. H., New York.
1339. Pier near Newport.
    Winter.
1340. Tyler, James G., New York.
    Dark Days at Sea.
    Vanderveer, Mary A., Amsterdam, N. Y.
1341. Study of Peonies.
    Walton, William, New York.
    A Great Enchantment.
    Wells, Newton A., Syracuse.
1342. Rest.
1343. Early Worshippers, St. Ives, Cornwall.
    The Fairy Story.
    The Coast of Cornwall.
1344. Misty Twilight.
    In Old Edinburgh.
    Woodwell, Johanna K., Pittsburgh.
1345. Portrait of Miss L.
WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

Young, Charles M., Gettysburg, Pa.
1364. The Forest.

GROUP 142.
Van Trump, Miss R. N., Philadelphia.
1365. A portrait—miniature on ivory.

GROUP 143.
Engravings and Etchings. Prints, Etchings and Dry Points.
Bloodgood, Thomas, New York.
1366. Who's Afraid?
1367. Hard Times.
Calahan, James J., New York.
1368. Mandolin Player.
Canby, Louise Prescott, Philadelphia.
1369. Sunset.
1370. Oswego Harbor.
1371. Shipping Ice on the Kennebec.
Chapman, Carlton T., New York.
1372. Street in Mont St. Michel.
1373. Evening in a Harbor
1375. English Fishing Boats.
1376. Twilight by the Sea.
1377. Calm Morning.
1378. Fishing Boats at Anchor.
1379. Driven Ashore.
1380. Rue de la Victoire, St. Malo.
1381. Bridge Over Old Moat, Chartres.
1382. Moonrise.
1383. Gloucester Harbor.
1384. Abandoning the Ship.
1385. Street in St. Malo.
1386. Old House, Chester.
1387. Street in Chartres.
Colman, Samuel, Newport, R. I.
1388. Olive Grove and Mill, Bordighera, Italy.
1391. A Gray Day at Dieppe.
1393. Japanese Inro with Netzkies. (No. 2.)
1394. The Terraces at Naples.
Dielman, Frederick, New York.
1395. Head. (Dry Point.)
1396. The River Loire and the Chateau of Vernon. Three etchings.
Faber, Erwin F., Philadelphia.
1397. Thrown.
Lent by C. Klackner, New York.
1398. St. Philip's, Charleston.
Lent by H. L. Smith, Philadelphia.
1399. The Repentance of Eve.
Faber, Herman, Philadelphia.
1400. Faust—A Mastiff.
1401. Study of a Lion's Head.
1402. The Challenge.
Ferris, Stephen J., Philadelphia.
1403. Six Etchings.
Gifford, R. Swain, Philadelphia.
1404. Salt Vats of Padan Aram.
1405. Near the Sea (Evening).
1406. An October Day.
1408. The Branch of the River.
1409. The Cove Road.
Johnson, Thomas, New York.
1410. Walt Whitman. (After photograph.)
1411. Abraham Lincoln. (After photograph.)
1412. Columbus.
King, James S., Upper Montclair, N. J.
Lent by C. Klackner, New York.
1414. August Afternoon.
Lent by C. Klackner, New York.
1415. The Golden Hour (Harvest).
Lauber, Joseph, Leonia, N. J.
1416. Low Lands Near the Ocean.
1417. The Pond.
1418. Shingle Maker.
1419. A Study in Dry Point.
1420. Morning at the Farm.
1421. The Shower.
Lovelwell, Romainer, Chelsea, Mass.
1422. Green's Dock, East Boston.
Manley, Thomas R., New York.
1423. Newark Bay (Evening).
1424. The Cottage.
1425. Weehawken Ferry.
1427. After the Shower.
1428. The Lane.
1429. Near King's Bridge, New York.
Mercier, Gustave, New York.
1430. Automedon. (After Henri Regnault.)
1431. The Day's Work Done. (After Jules Breton.)
1432. Vive le Fidelite! (After Franz Hals.)
1433. Education of the Virgin. (After Rubens.)
Mielatz, Charles F. W., New York.
1434. The Battery, New York.
1435. Madison Square at Night.
1436. Elevated Station at Night.
1439. In the Bowery, New York.
1440. Entrance to Brooklyn Bridge, New York.
1441. Spar Yard, South Street, New York.
1442. Mott Haven Canal, New York.
1443. Grand Central Station at Night.
1446. Newport Wharves.
1447. A Bit of Baxter Street, New York.
1448. The Road to the Sea.
1449. The Falls of the Pawtucket. (Dry Point.)
1450. Trout Pond, Moorsfield, R. I.
1451. Strangers in Wallabout. (Dry Point.)
1452. Mill at Block Island, R. I. (Dry Point.)
1453. The Tombs, New York. (Dry Point.)
1454. Two Bridges on the Harlem. (Dry Point.)
Monks, J. A. S., Boston.
1455. Evening After the Storm.
Moran, Emily K., Philadelphia.
1456. On the Road to the Farm.
Moran, M. Nimmo, New York.
1457. Point Isabel, Florida.
1458. Florida Forest.
1459. Summer, Easthampton.
1460. Edge of Georgia Pond.
1461. The Old Homestead.
1462. Between the Gloaming and the Mirk.
1463. Twilight, Easthampton.
1464. Bridge Over the Delaware.
1465. Hunt of the Muskrat.
1466. Conway Castle, Wales.
1467. Bushkill Bridge.
1468. Evening, Easthampton.
1469. Return of the Herd.
1470. A Summer Afternoon.
1471. Under the Willows.
1475. Restaurant in Stadts Park, Carlsbad.
1476. Pragergasse, Carlsbad.
1477. Market Place, Carlsbad.
1478. A Breeze, Carlsbad.
1479. Along the Quay, Carlsbad.
1480. Market Strasse (Market Street), Carlsbad.
1481. Slushy Morning, from Window.
1482. Twilight from My Window.
1483. (To Barbara, Cal.
1485. Cruising by Moonlight.
1486. In the Harbor.
1487. The Smugglers’ Landing Place.
1488. An East Wind.
1490. A Gale at Fecamp.
1491. Swamp Land.
1492. Winter Evening, Windsor, N. S.
1493. Gloucester Harbor.
1495. Market Place, Yvetot.
1496. Northern Moorland.
1497. Riverdale.
1498. On the Point, Chester.
1499. On the Thames.
1500. Near Dinan, Brittany.
1503. Winter at Windsor, N. S.
1504. Bass River, Cape Cod.
1505. Near Quebec.
1507. Canal, Venice.
1508. Port of Nice.
1509. On Cape Ann.
1510. On the Rance, Brittany.
1512. A Passing Shower.
1513. Port of Cannes.
1514. Paulus, Francis P., Munich.
1515. Scene near Munich.
1516. Spring Morning on the Isar.
1517. Summer Landscape.
1519. Arnhem.
1520. The Meuse.
1521. Brittany Landscape.
1522. Brittany Farm.
1523. Willows on the Coast.
1524. Dieppe.
1525. Dordrecht.
1526. Naples.
1527. Honfleur.
1528. Passenger Boats on the Seine.
1529. Pier at Larmor.
1531. Inland Port.
1532. A Spring Flood.
1533. Brooklyn Bridge.
1534. Pont St. Michel.
1535. Ritchie, Henrietta, Philadelphia.
1536. The Connoisseur.
1537. Race Street Wharf, Philadelphia.
1538. Crossing the Brook.
1539. Portrait of George W. Childs.
1540. Sartain, Emily, Philadelphia.
1541. In the Twilight.
1543. Near Ridderkerk, Holland.
1544. Toll Gate and Bridge.
1545. Edge of the Forest.
1546. Spring.
1547. The Juniata, near Lewistown.
1548. German Landscape.
1549. Oostendam, Holland.
1550. Dordrecht from Pappendrecht.
1551. On Weehawken Heights.
1552. Cloisters, Sand of the Forest.
1553. Lowery Autumn Day.
1554. Holland Landscape. (Dry point.)
1555. An Interior.
1556. Windmill on the Maas.
1557. Church Street, Detroit. (Winter.)
1558. Hauling Wood.
1559. The Brick Barge.
1560. The Brick Barge.
1561. A Breezy Day on the Hackensack.
1562. The Maas at Schiedam.
1563. The Maas near Dort, low tide.
1564. The Dyke.
1565. Heerjahusdam, Holland.
1566. Old Shed and Willows, Rijsvoord.
1567. Landscape, Spring.
1568. Living. (Dry point.)
1569. Bridge, with Burr removed.
1570. At Sunset.
1573. Portrait of Judge Devens. (After E. P. Vinton.)
1574. The Prelude. (After C. S. Pearce.)
1575. Portrait of Mrs Fowler. (After Frank Fowler.)
1577. Europa. (After antique terra cotta.)
1578. Silver Coffee Pot made by Tiffany & Co.
1579. Portrait.
1580. Eight etchings of jades from the collection of Heber R. Bishop, as follows:
1581. Light and Dark Green Jade, Teakwood Stand.
1582. Jade Plaque, Green Jade Stand.
1583. Jade, with Teakwood Stand.
1584. Jade Vase, Teakwood Stand.
1585. Jade Bowl, Teakwood Stand.
1586. Green Jade Jar, Teakwood Stand.
1587. Opaque Gray Jade, Teakwood Stand.
1588. Green Jade Plaque, Teakwood Stand.
<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Artist</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1634</td>
<td>Black Lion Wharf.</td>
<td>Lent by George W. Bramhall</td>
<td>Orange, N. J.</td>
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<tr>
<td>1635</td>
<td>Longshoremens.</td>
<td>Lent by Howard Mansfield</td>
<td>New York</td>
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<tr>
<td>1636</td>
<td>The Lime Burner.</td>
<td>Lent by Edward G. Kennedy</td>
<td>New York</td>
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<tr>
<td>1637</td>
<td>Arthur Seymour.</td>
<td>Lent by Charles L. Freer</td>
<td>Detroit</td>
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<tr>
<td>1638</td>
<td>Becquet.</td>
<td>Lent by Howard Mansfield</td>
<td>New York</td>
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<tr>
<td>1639</td>
<td>Whistler.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1640</td>
<td>Drouet.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1641</td>
<td>Annie Haden.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<td>1642</td>
<td>Mr. Mann.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<td>1643</td>
<td>Rotherhithe.</td>
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<td>New York</td>
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<td>1644</td>
<td>Axenfeld.</td>
<td>(Dry point)</td>
<td>No. 190</td>
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<td>1645</td>
<td>The Engraver—Riault.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<td>1646</td>
<td>The Forge.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<td>1647</td>
<td>Joe.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1648</td>
<td>The Storm.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1649</td>
<td>Weary.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1650</td>
<td>Fanny Leyland.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1651</td>
<td>Battersea, Dawn.</td>
<td>Lent by Howard Mansfield</td>
<td>New York</td>
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<tr>
<td>1652</td>
<td>Steamboat Fleet.</td>
<td>(Dry point)</td>
<td>Werei, New York</td>
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<tr>
<td>1653</td>
<td>Battersea Bridge.</td>
<td>Lent by Edward G. Kennedy</td>
<td>New York</td>
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<tr>
<td>1654</td>
<td>The Large Pool.</td>
<td>Lent by Howard Mansfield</td>
<td>New York</td>
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<td>1655</td>
<td>Putney Bridge.</td>
<td>Lent by Howard Mansfield</td>
<td>New York</td>
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<td>1656</td>
<td>The Little Putney, No. 3.</td>
<td>Lent by Howard Mansfield</td>
<td>New York</td>
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<tr>
<td>1657</td>
<td>Little Venice.</td>
<td>Lent by John Caldwell</td>
<td>Pittsburg</td>
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</tbody>
</table>

**UNITED STATES.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
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<th>Location</th>
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<tbody>
<tr>
<td>1583</td>
<td>Sunset on the Marne.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<tr>
<td>1584</td>
<td>Morning.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1585</td>
<td>Solitude.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<tr>
<td>1586</td>
<td>Dordrecht.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<tr>
<td>1587</td>
<td>East River.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<tr>
<td>1588</td>
<td>The First Snow.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1589</td>
<td>The Passing Storm.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1590</td>
<td>Sand Dunes of Virginia.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1591</td>
<td>A New York Shanty.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1592</td>
<td>A Kansas Windmill.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1593</td>
<td>Morning Light.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1594</td>
<td>Castle William.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1595</td>
<td>The Fish Hawk's Nest.</td>
<td>Vanderhoof, Charles A.</td>
<td>New York</td>
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<td>1602</td>
<td>Repairing the Bridge.</td>
<td>Walker, Charles A., Boston</td>
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<td>1607</td>
<td>By the Evening Lamp.</td>
<td>Walker, Charles A., Boston</td>
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<td>1609</td>
<td>The Little Fountain.</td>
<td>Walker, Charles A., Boston</td>
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<td>1611</td>
<td>The Lamp.</td>
<td>Walker, Charles A., Boston</td>
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<td>1613</td>
<td>Head.</td>
<td>Walker, Charles A., Boston</td>
<td>New York</td>
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<td>1614</td>
<td>Figure with Sleeping Dog.</td>
<td>Walker, Charles A., Boston</td>
<td>New York</td>
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<td>1616</td>
<td>Three Etchings.</td>
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<tr>
<td>1617</td>
<td>One Dry Point and One Etching.</td>
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<td>1619</td>
<td>Head.</td>
<td>Walker, Charles A., Boston</td>
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<td>1620</td>
<td>Four Heads.</td>
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<td>Two Etchings on Zinc.</td>
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<td>Two Etchings and One Dry Point</td>
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<td>1626</td>
<td>Two Dry Points.</td>
<td>Walker, Charles A., Boston</td>
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<td>1628</td>
<td>One Etching and One Dry Point.</td>
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<td>1629</td>
<td>Early Portrait of Whistler.</td>
<td>Whistler, James McNell, London</td>
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<td>1630</td>
<td>The Unsafe Tenement.</td>
<td>Whistler, James McNell, London</td>
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<tr>
<td>1631</td>
<td>The Old Rag Woman.</td>
<td>Whistler, James McNell, London</td>
<td>London</td>
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</tbody>
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**WORLD'S COLUMBIAN EXPOSITION.**

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DEPARTMENT K.—FINE ARTS.

1658. Nocturne, Riva.
   Lent by Howard Mansfield, New York.

1659. The Palaces.
   Lent by Bryan Lathrop, Chicago.

1660. The Doorway.
   Lent by Howard Mansfield, New York.

1661. The Traghetto.
   Lent by John Caldwell, Pittsburgh.

1662. The Two Doorways.
   Lent by Howard Mansfield, New York.

1663. The Beggars.
   Lent by George W. Bramhall, Orange, N. J.

1664. San Giorgio.
   Lent by Howard Mansfield, New York.

1665. Nocturne, Palaces.
   Lent by Howard Mansfield, New York.

1666. The Riva, No. 2.
   Lent by John Caldwell, Pittsburgh.

1667. The Garden.
   Lent by Howard Mansfield, New York.

1668. The Balcony.
   Lent by Edward G. Kennedy, New York.

1669. The Dyer.
   Lent by Howard Mansfield, New York.

1670. The Smithy.
   Lent by Howard Mansfield, New York.

1671. The Little Sweet Shop.
   Lent by Walter S. Carter, Brooklyn.

1672. Windsor. (Dry Point).
   Lent by Charles L. Freer, Detroit.

1673. The Barber’s Shop, Chelsea.
   Lent by Howard Mansfield, New York.

1674. Cloth Exchange, No. 2.
   Lent by Howard Mansfield, New York.

1675. Court Yard, Brussels.
   Lent by Edward G. Kennedy, New York.

1676. Palace, Brussels.
   Lent by Bryan Lathrop, Chicago.

1677. Hotel Lallemant, Bourges.
   Lent by Charles L. Freer, Detroit.

1678. Mayoralty Building, Loche.
   Lent by Charles L. Freer, Detroit.

1679. Chancellor’s Office, Loche.
   Lent by Charles L. Freer, Detroit.

1680. City Hall, Loche.
   Lent by Charles L. Freer, Detroit.

1681. Zaandam.
   Lent by Walter S. Carter, Brooklyn.

1682. Pierrot.
   Lent by Walter S. Carter, Brooklyn.

1683. The Balcony, Amsterdam.
   Lent by Walter S. Carter, Brooklyn.

1684. The Steps.
   Lent by Walter S. Carter, Brooklyn.

1685. The Embroidered Curtain.
   Lent by Walter S. Carter, Brooklyn.

1686. The Long House.
   Lent by Charles L. Freer, Detroit.

1687. The Mill.
   Lent by Walter S. Carter, Brooklyn.

Whittemore, Charles E., New York.

1688. Twilight on Bedloe’s Island, New York Harbor.

1689. Old O’Dea Comfort, Virginia.


1691. Mont St. Michel.

1692. Head of the Harbor.

Yewell, George H., New York.

1693. Cloister of the Monastery of St. Elena, near Venice.

1694. House of the Bell Ringer of Rouen Cathedral, France.

Prints from Engravings on Wood.

Aikman, Walter M., Brooklyn.

1695. Under the Willows. (After Alfred Parsons.)

1696. Wordsworth. (After Alfred Parsons.)

1697. A Modern Comanche. (After F. Remington.)

1698. Grand Canal, Venice.

1699. Rowing Down to Inley.

1700. Bringing Home the Christmas Tree.

1701. Sunset, La Hul-e, Belgium.

1702. The Sheep Pasture.

1703. The Penitent Jewell Weed.

Aitken, Peter, New York.

1704. On the Otomi Pass, Japan. (After A. Castaigne.)

1705. A Scene in Kent. (After J. A. Fraser.)

1706. The Conspirators.


1707. Castles in The Air.

1708. Malay Pirate.

1709. Scene in Tasmania.

Bernstrom, Victor, Grandview-on-Hudson, N. Y.

1710. A Little Music. (After Theodore Wores.)

1711. Limbering Up.

1712. Philip II.

1713. The Mujik. (After T. de Thulstrup.)

1714. Drawing Water for the Camp. (After F. D. Millet.)

1715. Snow tropit.

1716. Trapped at Last.

1717. The Shepherdess. (After Charles Sprague Pearce.)

1718. The Mystery of Life. (After Carl Marr.)

1719. Pirates’ Haven, Shark River, N. J.

1720. The Dead Matador.

Brown, W. Lamont, Boston.

1721. Portrait of Corot.
1722. Swift River, Conway, N. H.
1724. Chocorna Mountain and Lake
1727. Silver Lake.
1728. Saxon.
1729. The Mirror. (After Bunker.)
1730. Springtime. (After E. Major.)
1731. The Young Squire. (After Couture.)
1732. Night Moths.
1733. Winifred Dysart. (After George Fuller.)
1734. The Immacrate Conception. (After Gilbert.)
1735. Mother and Child. (After A. H. Thayer.)
1736. Ideal Head. (After A. H. Thayer.)
1737. The Quadroon Girl. (After George Fuller.)
1738. The Listeners. (After W. M. Hunt.)
1739. The Mockingbird. (After Simmons.)
1740. Flowers.
1741. The Irrigating Ditch.
1742. Sheep Shearers. (After Millet.)
1744. Delphian Sibyl. (After Michael Angelo.)
1745. Knight of Malta. (After Giorgione.)
1746. The Concert. (After Giorgione.)
1747. The Tribute Money. (After Masaccio.)
1748. Venice Enthroned. (After Paolo Veronese.)
1749. Battle of St. Ephesius. (After Spinello.)
1750. Madonna and Child. (After Bellini.)
1751. Group of Angels. (After Gozzoli.)
1752. Mary Magdalen. (After Bartholomew.)
1753. Æneas. (After Raphael.)
1754. Madonna of the Goldfinch. (After Raphael.)
1755. Mona Lisa. (After Leonardo da Vinci.)
1756. Three Ages of Man. (After Lotto.)
1757. Unknown Man. (After Francia.)
1758. Verocchio. (After Lorenzo di Credi.)
1759. Madonna and Child with cherubs. (After Bellini.)
1760. Detail of "The Last Judgment." (After Fra Angelico.)
1761. Two Angels. (After Andrea del Sarto.)
1762. Man with a Violin.
1763. Madonna and Child. (After Botticelli.)
1764. St. Agnes. (After Andrea del Sarto.)
1765. St. Jerome. (After Ghirlandaio.)
1766. St. Liberalis. (After Giorgione.)
1767. The Entombment.
1768. Florence, on the Arno.
1769. An Archway in Siena.
1770. Henry VII Chapel.
1771. Landing Stairs at Leghorn. (After J. Pennell.)
1772. Tropical Moth.
1773. Moths.
1774. Moths.
1775. A Moth.
1776. Cherry Blossoms and Moths.
1777. Rendezvous by Moonlight.
1779. White Birches. (After Miller.)
1780. Garrison Marching out with the Honors of War, Lille, 1708.
1781. Springtime of Love. (After Thumann.)
1782. Twilight. (After J. Appleton Brown.)
1783. The Mill at Cleeve. (After J. Appleton Brown.)
1784. Pine Woods in Canada. (After F. Hopkinson Smith.)
1785. Sunset. (After Corot.)
1786. Davidson, Harry, New York.
1787. Balaam and His Master. (After Howard Helmick.)
1788. Canterbury Cathedral.
1789. Afternoon at a Ranche.
1790. Israel.
1791. The Bowery at Night.
1792. An Old Mill. (After A. Castaigne.)
1793. Hard Winter.
1795. Woman and Bull. (After Roth.)
1796. Among the Old Poets. (After Walter Shirlaw.)
1797. The Cobbler's. (After E. M. Ward.)
1798. The Spring Song. (After Arthur B. Davis.)
1799. The Bohemian. (After Paul W. Bartlett.)
1800. The Autumn Hillside.
1802. Davis, Samuel P., Brooklyn.
1803. An After Dinner Nap. (After Dolph.)
1804. Cat and Kittens at Play. (After Mme. Ronner.)
1805. French Hunting. (After Rosa Bonheur.)
1807. Esquimaux Life. (After W. L. Taylor.)
1808. Birthplace of Beethoven.
1809. Canoeing in Florida. (After V. Perard.)
1810. Garden Scene in Venice. (After Rico.)
1811. Landing of the Dutch Fleet. (After C. Delort.)
1812. Cumnor Church.
1813. An Iceberg. (After W. L. Taylor.)
1814. Evans, John W., Brooklyn.
1815. With Fate Against Them.
1816. Indian Horse Race. (After F. Remington.)
1817. Moving the Fourth Cavalry. (After F. Remington.)
1818. Fallow Deer. (After B. Hook.)
1819. Fillebrown, F. E., Boston.
1820. The Pleiades. (After Elinor Vedder.)
1821. French, Frank, East Orange, N. J.
<table>
<thead>
<tr>
<th>Year</th>
<th>Title</th>
<th>Artist/Description</th>
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<tr>
<td>1816</td>
<td>Under the Mistletoe.</td>
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<td>1817</td>
<td>Christmas Chimes.</td>
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<td>1818</td>
<td>Clara</td>
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<td>1819</td>
<td>Valentine.</td>
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<td>1820</td>
<td>Old Residenter</td>
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<td>1821</td>
<td>Country Store.</td>
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<td>1822</td>
<td>Daisies.</td>
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<td>1823</td>
<td>Vale of Tears.</td>
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<td>1824</td>
<td>African Woman.</td>
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<td>1825</td>
<td>Three wood engravings: Showery Days in the Meadows, Canterbury Meeting House, Morning in the Meadow.</td>
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<td>1826</td>
<td>Abundance. (After Martiny.)</td>
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<td>1827</td>
<td>Heneyah. (After Bridgman.)</td>
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<td>1828</td>
<td>The Tiger Hunt. (After Barye.)</td>
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<td>1829</td>
<td>Rose Leaves. (After Humphrey Moore)</td>
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<td>1830</td>
<td>Isaac Walton. (After Boughton.)</td>
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<td>1831</td>
<td>The Rare Vase. (After Fortuny.)</td>
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<td>1832</td>
<td>Portrait of a Lady. (After F. Dielman.)</td>
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<td>1833</td>
<td>In the Enemy’s Country. (After Gilbert Gaul)</td>
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<td>1834</td>
<td>Lacing the Sandal. (After F. D. Millet)</td>
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<td>1835</td>
<td>Bust of Mark Twain.</td>
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<td>1836</td>
<td>Grosch, Oskar, Cincinnati.</td>
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<td>1837</td>
<td>Women Knitting. Lent by G. Meinshausen, Cincinnati.</td>
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<td>1838</td>
<td>Johnson, Thomas, New York.</td>
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<td>1839</td>
<td>Head of a Man. (After Rembrandt)</td>
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<td>1840</td>
<td>Browning.</td>
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<td>1841</td>
<td>Dr. J. Weir Mitchell. (After Holland)</td>
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<td>1842</td>
<td>Bishop Potter. (After Huntington)</td>
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<td>1843</td>
<td>Mrs. Bradley Martin. (After Carolus-Duran)</td>
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<td>Paderewski.</td>
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<td>1845</td>
<td>Tennynson.</td>
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<td>1846</td>
<td>Portrait of A. Lang. (After Richmond.)</td>
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<td>1847</td>
<td>Portrait of a Girl.</td>
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<td>1848</td>
<td>Daubigny.</td>
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<td>1849</td>
<td>Liszt. (After Munkaczky)</td>
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<td>1850</td>
<td>Portrait of a Child. (After J. W. Alexander.)</td>
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<td>1851</td>
<td>Jungling, J. F., Jersey City.</td>
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<td>1852</td>
<td>The Queen Old Lady.</td>
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<td>1853</td>
<td>King, Francis S., Roseville, N. J.</td>
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<td>1854</td>
<td>Knowledge is Power. (After F. S. Church.)</td>
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<td>1855</td>
<td>Battle of the Sirens. (After F. S. Church.)</td>
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<td>1856</td>
<td>The Siorceress. (After F. S. Church.)</td>
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<td>1857</td>
<td>Fog. (After F. S. Church.)</td>
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<td>1858</td>
<td>Pandora’s Box. (After F. S. Church.)</td>
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<td>1859</td>
<td>Girl and Tigers. (After F. S. Church.)</td>
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<td>1860</td>
<td>Charge of Cuirassiers. (After Aime Morot.)</td>
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<td>1861</td>
<td>Ivan the Terrible.</td>
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<td>1863</td>
<td>The Sibyl. (After F. S. Church.)</td>
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<td>1864</td>
<td>Christmas Fantasy.</td>
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<td>1865</td>
<td>F. S. Church in His Studio.</td>
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<td>1866</td>
<td>A Difference. (After E. H. Blashfield.)</td>
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<td>1868</td>
<td>The White Mountain.</td>
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<td>1869</td>
<td>New England Elms.</td>
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<td>1870</td>
<td>Old Homestead. (After J. F. Murphy.)</td>
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<td>1871</td>
<td>Late Summer. (After R. Collin)</td>
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<td>1872</td>
<td>Connecticut Valley.</td>
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<td>1873</td>
<td>Journey Northward.</td>
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<td>1874</td>
<td>The Flying Dutchman. (After A. P. Ryder.)</td>
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<td>1875</td>
<td>A Morning.</td>
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<td>1876</td>
<td>The Old Well. (After J. F. Murphy.)</td>
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<td>1877</td>
<td>Lent by C. Klackner, New York.</td>
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<td>1878</td>
<td>Silence. (After W. Bliss Baker.)</td>
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<td>1879</td>
<td>Lent by C. Klackner, New York.</td>
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<td>1880</td>
<td>Midsummer. (After Daubigny.)</td>
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<td>1881</td>
<td>Lent by C. Klackner, New York.</td>
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<td>1882</td>
<td>Winter Morning. (After D. W. Tryon.)</td>
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<td>1883</td>
<td>Lent by N. E. Montross, New York.</td>
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<td>1884</td>
<td>Autumn Evening. (After D. W. Tryon.)</td>
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<td>1885</td>
<td>Lent by N. E. Montross, New York.</td>
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<td>1886</td>
<td>Kruell, Gustav, East Orange, N. J.</td>
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<td>1887</td>
<td>Portrait of William Lloyd Garrison.</td>
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<td>1888</td>
<td>Abraham Lincoln.</td>
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<td>1889</td>
<td>U. S. Grant.</td>
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<td>1890</td>
<td>Daniel Webster.</td>
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<td>1891</td>
<td>Harriet Beecher Stowe.</td>
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<td>1892</td>
<td>General Sherman.</td>
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<td>1893</td>
<td>William M. Hunt.</td>
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<td>1894</td>
<td>Ana Gray.</td>
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<td>1895</td>
<td>James Russell Lowell.</td>
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<td>1896</td>
<td>Charles Darwin, 1854.</td>
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<td>1897</td>
<td>Charles Darwin at 70.</td>
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<td>1898</td>
<td>Rent Day. (After Alfred Kappe.)</td>
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<td>1899</td>
<td>Lindsay, Albert M., Philadelphia.</td>
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<td>1900</td>
<td>The Coup.</td>
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<td>1901</td>
<td>Bowling.</td>
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<td>1902</td>
<td>The Singing Shepherd.</td>
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<td>1903</td>
<td>A Chinese Restaurant.</td>
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<td>1904</td>
<td>The Golden Wedding.</td>
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<td>Yosemite Dome.</td>
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<td>1906</td>
<td>A Relic of the Departed South.</td>
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<td>1907</td>
<td>Shades of Evening.</td>
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<td>1908</td>
<td>An April Birthday at Sea.</td>
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<td>1909</td>
<td>The Departure to the Convent.</td>
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<td>1910</td>
<td>Presentation of a Circus in a Spanish Town.</td>
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<td>1911</td>
<td>The blocks of the above engravings by Mr. Lindsay are owned by Harper &amp; Bros., New York.</td>
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<td>1912</td>
<td>Lyouns, H. F. W., Boston.</td>
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<td>1913</td>
<td>Nydia.</td>
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<td>1914</td>
<td>Solitude.</td>
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<td>1915</td>
<td>Lost in a Cypress Swamp.</td>
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<td>1916</td>
<td>Meinhauseen, George, Cincinnati.</td>
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<td>1918</td>
<td>Miller, William, New York.</td>
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<td>1919</td>
<td>Seven wood engravings in one frame: Sunset. (After George Inness)</td>
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<td>1920</td>
<td>Bohemienne. (After Franz Hals)</td>
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<td>1921</td>
<td>Etrétat. (After George Inness)</td>
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<td>1922</td>
<td>Head. (After Rubens)</td>
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<td>1923</td>
<td>Kiss Me Quick. (After Munier)</td>
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<td>1924</td>
<td>Baby Mine. (After V. Tojetti.)</td>
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<td>1925</td>
<td>Early Affection. (After V. Tojetti)</td>
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</table>
Muller, R. A., Brooklyn.
1906. I Am Perfectly Happy. (After J. G. Brown.)
1908. The De Brehan Miniature of Nelly Custis.
1909. Sir William Temple. (After Lely.)
1910. Gilbert Barnett. (After Riley.)
1911. Lost. (After A. Schenk.)
1913. By the Black Sea.
1914. Guykskill Mill.
1915. Centaur.
1916. Sandhills.
Powell, Caroline A., Trenton, N. J.
1917. The Resurrection. (After John La Farge.)
1918. An Organist.
1919. A Harpist.
1920. A Bit of Sunshine.
1921. The Three Marys. (After John La Farge.)
1922. Lady and Horse. (After A. H. Thayer.)
1923. Gorilla.
1924. Bubbles. (After Couture.)
1925. Windmills.
Putnam, S. G., Corona, Long Island, N. Y.
1926. Identity. (After Elihu Vedder.)
1927. Waterfall by Moonlight. (After R. A. Blakelock.)
1928. Mirabeau and the King's Messenger.
1929. Princess Marie of Austria.
1930. A Cozy Corner.
1931. Carue Castle.
1932. At the Continental Spring.
1933. Pirates Seizing a Ship.
1934. A Sheep Pasture.
Reed, Charles H., Philadelphia.
Schladitz, E., New York.
1937. Love Locked Out. (After Anna Lea Merritt.)
Schwarzburger, C., Brooklyn.
1938. Etna. (After Harry Fenn.)
1939. On the River Thames, Ontario. (After Harry Fenn.)
States, Charles, New York.
1940. Oriental Street Scene. (After A. Castaigne.)
1941. Indians in Council.
Sugden, Thomas D., Flushing, L. I., N. Y.
1942. The Drinking Place.
1943. Ship in the Fog.
1944. Twilight, Westminster Cathedral.
1945. Westminster Cathedral, Early Morning.
1946. St. Giles' Church.
1948. The Little Frenchman at School.
1950. Exchanging Confidences. (After F. C. Jones.)
1951. All Halloween.
1952. Swine Herd, River Danube. (After F. D. Millet.)
1953. Apache Indian Firing on Teamster. (After F. Remington.)
1954. English Cathedral.
Wellington, Frank H., Passaic, N. J.
1955. Miles Standish's Challenge. (After E. A. Abbey.)
1956. One Day in June. (After W. T. Smedley.)
Williams, George P., Philadelphia.
1957. The Alderman.
Wolf, Henry, New York.
1959. The Roadside. (After R. Swain Gifford.)
1962. The Virgin Enthroned. (After A. H. Thayer.)
1963. Twilight. (After Alexander Harrison.)
1964. The Portrait. (After Will H. Low.)
1965. Alice. (After W. M. Chase.)
1966. Miss Beatrice Golet. (After J. S. Sargent.)
1967. Tiger. (After Adolf Menzel.)
1968. Madonna and Child. (After Dagnan-Bouveret.)
1969. Thirst. (After Gerôme.)
Miscellaneous Prints.
Closson, W. B., Lancaster, Mass.
1974. Hawthorne's Boat House. (Relief engraving by a method of Closson's own invention.)
1975. Helen. (Mezzotint.)
Girsch, F., Mount Vernon, N. Y.
1977. Bank Note Vignettes. (Steel Engraving.)
Moran, Peter, Philadelphia.
1981. Irene. (After Coomans. Steel Engraving.)
1982. Ione. (Mezzotint.)
Sartain, William, New York.
1983. Symphony. (Mezzotint.)
1986. The Smoker. (After Leon Moran. Steel Engraving.)
1987. Marine View. (After M. F. H. DeHaas. Steel Engraving.)
1988. Portrait of Ralph Waldo Emerson. (After S. W. Rowe. Steel Engraving.)
Walker, Charles A., Boston.
1990. Rough Weather. (Monotype.)
1991. After the Storm. (Monotype.)
1992. Evening Approaching. (Monotype.)
Wickenden, Robert J., New York.
1993. The Approach of Evening. (Original Lithograph.)

GROUP 144.
Chalk, Charcoal, Pastel and Other Drawings.

Pastel Drawings.
1995. Landscape.
1996. Ideal Head.
Beaux, Cecilia, Philadelphia.
   Lent by William Bradshaw, Philadelphia.
Binney, Martha G., New York.
Brown, J., Appleton, New York.
Cauldwell, Leslie, Paris.
Champney, J. Wells, New York.
Chase, William M., New York.
Corwin, Charles A., Chicago.
2009. Oat Harvest.
Curran, Charles C., New York.
   Lent by W.T. Evans, New York.
2013. Flowers of Autumn.
Emmet, Lydia Field, New York.
2015. A Portrait Sketch by Lamplight.
2016. Cardinal Manning, the Palace, Westminster, 1890.
Harrison, Birge, Paris.
Hecker, Caroline F., New York.
Klumpke, Anna E., Boston.
MacKubin, Florence, Baltimore.

Mills, Lena, New York.
2022. Boy's Head.
Muhrman, Henry, London.
2024. Trees and Pond, Hampstead Heath.
2025. Landscape, Hampstead Heath.
2026. Scene on Hampstead Heath.
2027. Firs and Gorse.
2028. Houses, Hampstead Heath.
2030. View of Highgate.
2031. Old Tree.
2032. Shells.
2033. Birch Trees.
2034. Field of Buttercups.
Reaugh, F., Oak Cliff, Tex.
2035. Landscape with Cattle.
2036. February in Texas.
Reynolds, Alice M., New York.
2037. Portrait.
Rolshoven, Julius, Paris.
2038. In the Shade.
2039. Ave Maria.
2040. Chioggia Fishermen Reading Tasso.
2041. A Chioggia Fisherman.
Sherwood, Rosina Emmet, New York.
2042. A Sleeping Child.
2043. The Black Cockade.
2044. View in Central Park.
2045. Portrait of Mrs. Broleman.
Thomas, William, London.
2046. Study of a Head.
Twachtman, J. H.
2047. Le Gorge d'Enfer (Throat of Hell).
   Lent by Charles Scribner's Sons, New York.
Wadsworth, Adelaide, Boston.
2048. Fishing Boats at Anchor, Venice.
Wagner, Jacob, Boston.
2049. Portrait of My Mother.
Weil, Gertrude, Philadelphia.
2050. Silence.
2051. Majella, a Study.
   Lent by William Taussig, St. Louis.
Young, Charles Morris, Gettysburg, Pa.
2052. The Cornfield at Twilight.

Pen and Ink, Charcoal, Black and White, and Other Drawings.

Alexander, J. W.
2053. Sketches Adrift from Redwood Camp. (Black and white.)
   Lent by Charles Scribner's Sons, New York.
Abbey, Edwin A.
2054. As You Like it. Rosalind: "O Jupiter, how weary are my spirits." (Pen drawing.)
2055. Married Wives. Fenton: "And tells me 'tis a thing impossible." (Pen drawing.)
2056. Merchant of Venice. "It falleth like the gentle rain from heaven." (Pen drawing.)
2057. Merchant of Venice. Portia: "Away then. I'm locked in one of them." (Pen drawing.)
2058. Tempest. Ferdinand: "I am, in my condition, a prince." (Pen drawing.)
WORLD'S COLUMBIAN EXPOSITION.

UNITED STATES.

2059. Tempest. Prospero. "Fetch me the hat and rapier." (Pen drawing.)
2060. Tempest. Miranda and Ferdinand. (Pen drawing.)
2061. Tempest. Caliban, Trinculo, Stephano and Ariel invisible. (Pen drawing.)
2062. Tempest. Alonzo, Gonzalo and others enter the circle. (Pen drawing.)
2063. Tempest. Trinculo: "What have we here." (Black and white.)
2064. Measure for Measure. "Sweet sister, let me live." (Pen drawing.)
2065. Measure for Measure. Mariana and boy singing. (Black and white in oil.)
2066. Measure for Measure. Friar Thomas and the Duke. (Black and white in oil.)
2067. Measure for Measure. Angelo and Isabella. (Black and white in oil.)
2068-2077. Ten sketches for "Life." (Pen drawings.)
Lent by Mitchell & Miller, New York.

2078. Statue of Ferdinand in the Cathedral at Malaga. (Pen drawing.)
2079. Japanese Armor, 14th Century. (Pen drawing.)
2080. Japanese Armor, 16th Century. (Pen drawing.)
The above three drawings were lent by the Century Co., New York.
2081. Grain Elevator. (Wash drawing.)
2082. Unloading a Banana Steamer. (Black and white.)
2083. Night Signaling on an Ocean Steamer. (Black and white, oil.)
Bellevue, F. P. W.
2084. Sketch for "Life." (Pen drawing.)
Lent by Mitchell & Miller, New York.

Birch, Reginald B., New York.
2085. Brother Stalz's Beat. (Wash drawing.)
2086. The Little Lovers. (Black and white.)
The above two drawings were lent by the Century Co., New York.

2087. The Fairest Maiden. (Pen drawing.)
2088. His Lordship's Bedtime. (Black and white, oil.)
The above two drawings were lent by the Century Co., New York.
2089. Charms with Holy Water. (Black and white, oil.)
Lent by Charles Scribner's Sons, New York.

Bloodgood, Robert F., New York.
2090. The End of the Outlaw. (Pen drawing.)
Blum, Robert, New York.
2091. Wandering Evas. (Pen drawing.)
2092. Japanese Policeman. (Pen drawing.)
2093. A Shop for Lamps. (Pen drawing.)
2094. Japanese Girl. (Pen drawing.)
2095. Its Tiny Head Swung Hither and Thither. (Pen drawing.)
2096. The Ameya. (Pen drawing.)
2097. Be Pleaseed to Bring in the Honorable Account. (Wash drawing.)
2098. My Eye was Caught by the Gleam of a Brass Door-knob. (Wash drawing.)
2099. She Looked at Me and Spoke Trustingly. (Wash drawing.)
2100. The Tall Ladder of a Fire Station. (Wash drawing.)
2101. Tea Pot and Crockery. (Wash drawing.)
2102. Benteen Cave, Enoshina. (Wash drawing.)
2103. The Amma Japonica. (Pen drawing.)
2104. Where the Proprietor, Stark Naked, Pestles the Paddy. (Wash drawing.)
2105. She Laid her Hand on His Arm. (Wash drawing.)
2106. Head of the Street, Enoshina. (Wash drawing.)
2107. A Street Scene, Enoshina. (Wash drawing.)
2108. Japanese Dinner at Golden Koi. (Wash drawing.)
2109. A Little City Back Yard. (Wash drawing.)
2110. Watching the Election Returns, Japan. (Wash drawing.)
2111. A Begging Priest. (Black and white.)
2112. On the Hillside at Enoshina. (Black and white.)
The above twenty-two drawings were lent by Charles Scribner's Sons, New York.
2113. The Plankway to Benteen Cave. (Wash drawing.)
2114. Fray Innocencio and Flojo. (Pen drawing.)
2115. The Man is Dead He Said. (Black and white.)
Broughton, C.
2116. Fifth Avenue Stage. (Pen drawing.)
Lent by Mitchell & Miller, New York.

Bradley, Horace, New York.
2117. Still Life Class Room. Art Student's League, N. Y.

Burns, M. J.
2118. By George! I've Got Him. (Black and white.)
2119. Working Drops and Borders from the First Fly Gallery. (Black and white.)
2120. Danger Ahead! (Black and white.)
2121. Interior of a Round House. (Black and white, in oil.)
The above four drawings were lent by Charles Scribner's Sons, New York.

Castaigne, A., Baltimore.
2122. Queen of the Felibres, Provence. (Charcoal drawing.)
2123. Portrait of Mlle. Roumanille. (Charcoal drawing.)
2124. Open Air Theatre, Provence. (Charcoal drawing.)
2125. The Shops of Catelan, Provence. (Charcoal drawing.)
2126. Shop of Roumanille. (Black and white.)
2127. Preparing for the Final Dance. (Black and white, oil.)
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<th>No.</th>
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<th>Author/Artist</th>
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<tr>
<td>2128</td>
<td>Circling the Lodges. (Black and white, oil.)</td>
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<td>2129</td>
<td>The Dance Was in Full Swing. (Black and white, oil.)</td>
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<td>2130</td>
<td>Festival of the Felibres, Provence. To Mistral. (Black and white, in oil.)</td>
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<td>2131</td>
<td>Running through Vers, Provence. (Black and white, in oil.)</td>
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<td>2132</td>
<td>Good-bye at Nimes, Provence. (Black and white, in oil.)</td>
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<td>2133</td>
<td>Inn Yard at Collias, Provence. (Black and white, in oil.)</td>
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<td>2134</td>
<td>Isle of La Barthelasse at Night, Provence. (Black and white, in oil.)</td>
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<td>2135</td>
<td>Up the Maiensi Pass. (Black and white, in oil.)</td>
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<td>2136</td>
<td>L'Isle sur Jurgues. (Black and white, in oil.)</td>
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<td>2137</td>
<td>On the Otoni Pass, Japan. (Black and white, in oil.)</td>
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<td>2138</td>
<td>On a Great Cattle Trail. (Black and white, oil.)</td>
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<td>2139</td>
<td>Port of Valparaiso in Norther. (Wash drawing.)</td>
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<td>2140</td>
<td>White Star Steamer Majestic. (Black and white.)</td>
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<td>2141</td>
<td>The Largest Steamer on the Lakes. (Black and white.)</td>
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<td>2142</td>
<td>Like Mother Like Daughter. (Pencil drawing.)</td>
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<td>2143</td>
<td>Flapjacks. (Black and white,)</td>
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<td>2144</td>
<td>Sketch for Window for Tiffany Glass Co. (Black and white.)</td>
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<td>2145</td>
<td>M. Daubray of the Palais Royal. (Pen drawing, after photo.)</td>
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<td>2146</td>
<td>Bust of J. Alden Weir, by Olin Warner. (Pen drawing.)</td>
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<td>2147</td>
<td>Veiled Moorish Woman. (Pen drawing, after photo.)</td>
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<td>2148</td>
<td>The Iroquois Arrow. (Black and white, oil.)</td>
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<td>2149</td>
<td>Reading in the Chapter Room, La Trappe. (Black and white, oil.)</td>
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<td>2150</td>
<td>Reluctant, She Turned to Him. (Wash drawing.)</td>
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<td>2151</td>
<td>Satisfactory as any Visitors Are the Children. (Black and white, oil.)</td>
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<td>2152</td>
<td>Another Visitor Who Never Misses a Welcome, is the Bringer of Eatables. (Black and white, oil.)</td>
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<td>2153</td>
<td>Bamboula. (Black and white.)</td>
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<td>2154</td>
<td>Triste Noël. (Scratch.)</td>
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<td>2155</td>
<td>Madonna. (Black and white, oil.)</td>
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<td>2156</td>
<td>Holding Tight to Patty's Hand. (Black and white, oil.)</td>
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<td>2157</td>
<td>Asleep Upon the Grass. (Pen drawing.)</td>
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<td>2158</td>
<td>One Would Have Thought She was Really a Boy. (Black and white.)</td>
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<td>2159</td>
<td>At Dinner. (Black and white.)</td>
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<td>2160</td>
<td>Sepulchres of Ferdinand and Isabella, Philip, and Joanna in the Royal Chapel, Granada. (Pen drawing.)</td>
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<td>2161</td>
<td>Escutcheon and Fireplace in the Manor House, Gardiner's Island. (Pen drawing.)</td>
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<td>2162</td>
<td>Castillo de la Mota, near Medina, Spain. (Wash drawing.)</td>
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<td>2163</td>
<td>Kiga. (Wash drawing.)</td>
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<td>2164</td>
<td>First Glimpse of the Kusneh, Petra. (Black and white,)</td>
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<td>2165</td>
<td>Tower of Trinity Church, Boston. (Black and white,)</td>
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<td>2166</td>
<td>Rousseau's House and Stairs to Studio, at His Death, 1867. (Black and white.)</td>
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<td>2167</td>
<td>East End of Ganne's Hotel, Barbizon. (Black and white.)</td>
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<td>2168</td>
<td>On the Common, Gardiner's Island. Black and white.</td>
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<td>2169</td>
<td>Fortuny Lying in State. (Crayon)</td>
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<td>2170</td>
<td>Back of the Village, Chiddingstone, Kent. (Black and white.)</td>
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<td>2171</td>
<td>Cathedral Rocks, Yosemite. (Black and white.)</td>
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<td>2172</td>
<td>Sentinel Rock. (Black and white,)</td>
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<tr>
<td>2173</td>
<td>The Corner, Kent. (Wash drawing.)</td>
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</tbody>
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UNITED STATES.

Fraser, Malcolm, Paris.


Frost, A.B., Courant, Morris County, N.J.

2175. Have You Happened to Hear Anybody Speak of Me? (Pen drawing.)

2176. Is Desey yer Bobolitionists Got Horns 'n' Huffs? (Pen drawing.) The above two drawings were lent by the Century Co., New York.

2177. The Negro Leaned, Exhausted, Against the Wall. (Pen drawing.)

2178. Men at a Card Table. (Pen drawing.)

2179. An't then He Marched off to Bed by Himself. (Pen drawing.)

2180. We'll All Swa'to it. (Wash drawing.)

2181. If You Pull that Trigger and Hit the Mark, Ve can Ride off Free. (Wash drawing.)

2182. Dead as a Hammer—Ain't He, Mac? (Wash drawing.) The above six drawings were lent by Charles Scribner's Sons, New York.

2183. A Prize. (Black and white.)

2184. Fishing for Stripped Bass in the Surf. (Black and white.)

2185. The Ice Harvest. (Black and white.)

2186. Missed Him Agin, by Ginger! (Black and white.)

2187. Quail Shooting—Four Barrels and Four Birds. (Black and white.) The above five drawings were lent by Harper & Bros., New York.

Gates, J.H.

2188. A Sketch, for "Life." (Black and white.) Lent by Mitchell & Miller, New York.

Gaul, Gilbert, New York.

2189. A Puleque Carrier, Mexico. (Black and white.)

2190. The Journey in the Market Cart. (Black and white in oil.)

2191. Landing at Chagres. (Black and white in oil.)

2192. Pleasant Weather in the Gulf. (Black and white in oil.)

2193. Gorgona, Panama. (Black and white in oil.)

2194. The Pilot, Jamaica. (Black and white in oil.)

2195. The Kitchen, Jamaica. (Black and white in oil.)

2196. Pleased. A Cheer for the Old Flag. (Black and white in oil.)

2197. The Master's Lunch, Jamaica. (Black and white in oil.)

2198. Dining-room, French's Hotel, Panama. (Black and white in oil.)

2199. The Steamer is in Panama. (Black and white in oil.)

2200. A crowded Steamer. To California in 1849. (Black and white, oil.) The above twelve drawings were lent by the Century Co., New York.

Gibson, C.D., New York.

2201. Yes, it is too Bad. (Pen drawing.)

2202. You Must Tell Your Friend Not to be Frightened at the House. (Pen drawing.)

2203. Awfully Kind of You to Come to Our Little Shanty in the Wilderness. (Pen drawing.)

2204. And the Two Smoked in Silence. (Pen drawing.)

2205. Aren't You Pleased With Me? (Pen drawing.)

2206. Debuites Leaning on His Arm. (Pen drawing.)

2207. The Young Men in the House Thought Her a Jolly Girl. (Pen drawing.)

2208. Mrs. Vernon had Crossed the Rubicon. (Pen drawing.)

2209. He is Waiting for Me. (Pen drawing.)

2210. Lord and Lady William Hampshire. (Pen drawing.)

2211. We are Behind Time, Mrs. Van Bens on and I. (Pen drawing.)

2212. When Luella Lost Her Grip. (Pen drawing.)

2213. The Meeting in Mrs. Van Shuter's Empire Room. (Pen drawing.)

2214. I Am Glad that Tempest in a Teapot is Over. (Pen drawing.) The above fourteen drawings were lent by the Century Co., New York.

2215. Her First Appearance. (Pen drawing.)

2216. The American Girl. (Pen drawing.) The above two drawings were lent by Harper & Bros., New York.

2217. I Wish to God You Were Out of the Business. (Wash drawing.)

2218. In the Studio. (Wash drawing.)

2219. A Serious Question. (Wash drawing.) The above three drawings were lent by Charles Scribner's Sons, New York.


2221. Two Girls and a Man. (Pen drawing.)

2222. The Jury. (Pen drawing.)

2223. In the Moonlight. (Pen drawing.)

2224. Drifting Apart. (Pen drawing.)

2225. Will Penelope Land the Baron? (Pen drawing.)

2226. At Mrs. Flatsharps. (Pen drawing.)

2227. The Prisoner at the Bar. (Pen drawing.)

2228. Time! (Pen drawing.)

2229. In Leap Year. (Pen drawing.)

2230. In Leap Year Starting on Their Wedding Journey. (Pen drawing.)

2231. In Leap Year. After Having Kept the Men Waiting. (Pen drawing.)

2232. The Horse Show. (Pen drawing.)

2233. That Delicious Moment When You are Asked to Take in to Dinner the Girl Who Refused You Yesterday. (Pen drawing.)

2234. A Summer Celebration. (Pen drawing.)

2235. Fourth of July. (Pen drawing.)

2236. At Mrs. Van Tappans. (Pen drawing.)

2237. At Mrs. Daubleigh Chrome's. (Pen drawing.)

2238. At the Gentlemen's Chowder Club. (Pen drawing.)
Gibson, W. Hamilton, Brooklyn.

2239. Night Hawk. (Pen drawing.)
2240. Orange Boughs. (Charcoal.)
2241. A Misty Morning. (Smoke.)
2242. Los Loros, Andes. (Black and white.)
2243. A California Garden. (Black and white.)
2244. The Bobolink at Home. (Black and white.)
2245. A Midnight Tragedy. (Black and white.)
2246. The Wild Garden. (Black and white.)
2247. A Winter Ravine. (Black and white.)
2248. The Sly Silver Fox. (Black and white.)
2249. Cyrepedium Spectabile. (Black and white.)
2250. A Relic of the Departed South. (Black and white.)
2251. A Southern Canebrake Jungle. (Black and white.)
2252. On Bayou Teche, Louisiana. (Black and white.)


2253. Study Head. (Charcoal.)
2254. Helmick, Howard, Washington, D.C.

2255. Many a Bride Slipped from Aboard Her Husband’s Whaler. (Black and white.)
2256. Faith’d Fetch It. (Black and white.)
2257. On the Floor Lay Berrian Cozart. (Black and white, oil.)

The above three drawings were lent by the Century Co., New York.

Herford, O.

2258. Sketch, for “Life.” (Pen drawing.)

Lent by Mitchell & Miller, New York.

Hitchcock, George.

2259. A North Sea Dutch Fisherman. (Wash drawing.)
2260. Corner of a Dutch Captain’s Kitchen. (Black and white.)
2261. Dutch Fishing Boats. (Black and white.)

The above three drawings were lent by Charles Scribner’s Sons, New York.


2262. At Home. (Pen drawing.)
2263. Sketch No. 1, for “Life.” (Pen drawing.)
2264. Sketch No. 2, for “Life.” (Wash drawing.)

Lent by Mitchell & Miller, New York.

Kemble, E. W., New Rochelle, N. Y.

2265. Have You Forgotten Your Brother Ab., Peggy? (Pen drawing.)
2266. Sergeant Bowers Receiving Orders. (Pen drawing.)
2267. Sperrits. (Pen drawing.)
2268. The Plantation Bell. (Pen drawing.)
2269. Food for the Confederate Wounded. (Pen drawing.)
2270. A Race Problem. (Pen drawing.)
2271. The Cake Walk. (Pen drawing.)
2272. Polly Ann. (Pen drawing.)
2273. Uncle Peter Bean. In the Cotton Mill, Georgia. (Two pen drawings.)
2274. A Field Hand. (Pen drawing.)

Like an Ebony Statue of Liberty (Wash drawing.)

2275. Saving His Master. (Black and white.)

The above thirteen drawings were lent by the Century Co., New York.

Low, Will H., New York.

2276. Through Our Tendril Arches the Famed Eolian Quire. (Black and white.)

Lent by the Century Co., New York.

2277. Old Field at Barbizon. (Wash.)
2278. Narcissus. (Black and white, oil.)

The above two drawings were lent by Charles Scribner’s Sons, New York.

Millet, F. D., New York.

2279. Study of Heads. (Pen drawing.)
2280. A Prisoner. (Pencil.)
2281. In the Supper Room. (Black and white.)
2282. Camel Driver. (Black and white.)
2283. Driving a Team. (Black and white.)

Meza, Wilson de, Lakewood, N. J.

2284. Sketch No. 1, for “Life.” (Black and white.)
2285. Sketch No. 2, for “Life.” (Black and white.)
2286. Sketch No. 3, for “Life.” (Black and white.)

The above three sketches were lent by Mitchell & Miller, New York.

2287. Drawing for Illustration. (Black and white.)
2288. When Through Feast-Litten Halls. (Black and white.)

Metcalf, W. L.

2289. Stinner House, Pelham Bay Park. (Pen drawing.)
2290. The Picture Gallery. (Black and white.)
2291. He Drove the Knife Through His Hand. (Black and white.)
2292. Cable Hut at Shore End. (Black and white, oil.)

The above four drawings were lent by Charles Scribner’s Sons, New York.

Mowbray, A. Siddons.

2293. Ben Hur. (Black and white, oil.)


Newell, R. S.

2294. A Reminder of Old Virginia. (Black and white.)


Nichols, H. D.

2295. Interior of Manufactures and Liberal Arts Building, W. C. E. (Black and white.)


Pape, Frederick S. M., Paris.

2296. The Sphinx by Moonlight. (Pen drawing.)

Lent by Century Co., New York.

Parsons, Alfred, New York.

2297. Crossing Weir. (Wash drawing.)

2298. In Silistria. (White and black.)

2299. Singing Shepherd. (White and black.)

2300. Pig Wallow. (Black and white.)

2301. Ishchatal, St. George. (Black and white.)
UNITED STATES.

2302. Camp opposite Kalafat. (Black and white.)

2303. The Snowdrop. (Black and white.)

2304. Daffodils. (Black and white.)

2305. St. Edmund's Chapel, Westminster Abbey. (Pen drawing.)

2306. York Cathedral: Chapter House, Fair-Sisters, and Central Tower. (Pen drawings.)

2307. Old Battersea Church, Chelsea. (Pen drawing.)

2308. One Bay of the Angel Choir, Lincoln Cathedral. (Pen drawing.)

2309. Western Port of Ely Cathedral, from Garden in Close. (Pen drawing.)

2310. Sally Harrowell's Shop, Rugby. (Pen drawing.)

2311. Florence from Boccaccio's Villa. (Pen drawing.)

2312. In the Garden, Boccaccio's Villa. (Pen drawing.)

2313. In the Nave, Westminster Abbey. (Pen drawing.)

2314. Villa on the Road to Fiesole. (Pen drawing.)

2315. Northwest View of Gloucester Cathedral. (Pen drawing.)

2316. South Side of Lincoln Cathedral. (Pen drawing.)

2317. Well's Cathedral Choir, Looking East. (Pen drawing.)

2318. Dryden's Monument, Westminster Abbey. (Pen drawing.)

2319. Winchester Cathedral Choir and Presbytery, Looking East. (Pen drawing.)

2320. The Vicar's Close, Well's Cathedral. (Wash drawing.)

2321. Well's Cathedral Nave, Looking East. (Wash drawing.)

2322. Wargrave; Sonning Bridge; Landing at Richmond. (Wash drawings.)

2323. Gloucester Cathedral Nave from the North Aisle. (Wash drawing.)

2324. Four Pen Drawings from Charing Cross to St. Paul's.

2325. Five Pen Drawings from Charing Cross to St. Paul's. (1)

2326. Five Pen Drawings from Charing Cross to St. Paul's. (2)

2327. Six Pen Drawings from Charing Cross to St. Paul's. (1)

2328. Six Pen Drawings from Charing Cross to St. Paul's. (2)


2330. River Police Patrol Boat. (Wash drawing.)

2331. Pelham Park. (Wash drawing.)

2332. In the Valley. (1) (Black and white in oil.)

2333. In the Valley. (2) (Black and white in oil.)

2334. In the Valley. (3) (Black and white in oil.)

2335. The Oak of Geismar. (Black and white in oil.)

2336. Gambetta Proclaiming the Republic. (Black and white in oil.)

2337. A Moment Later There was a Great Hammering at the Door. (Black and white in oil.)

2338. Indian Woman Saving the Life of John Brown. (Black and white, oil.)

2339. Along the Canal in Old Manhattan. (Black and white, oil.)

2340. They Used to Drill Every Evening. (Black and white.)

2341. Redwood, Allen C., Bergen Point, N. J.

2342. Barksdale's Mississippians Opposing Laying of Pontoon Bridges. (Pen drawing.)

2343. A Camp Toilet. (Pen drawing.)

2344. General Grant Can't Have any Water from this Spring. (Black and white.)

2345. Perpetual Motion. (Black and white.)

2346. Our Match Against Pope. (Pen drawing.)

2347. A Stag Dance. (Black and white.)

2348. The Retreat from Gettysburg. (Black and white.)

2349. A Kissing Gate. (Pen drawing.)

2350. Government Wharf, Fort Monroe. (Pen drawing.)

2351. Up the Hudson. (Pen drawing.)

2352. Portrait of Charles Dudley Warner. (Charcoal.)

2353. A Near-Sighted Deputy. (Charcoal.)

2354. Liberal and Conservative. (Charcoal.)

2355. A Tramp. (Charcoal.)

2356. Christmas Morning. (Charcoal.)

2357. Illustration. (Black and white.)

2358. Skating. (Wash drawing.)

2359. Remington, Frederic, N. Y.

2360. Roping in a Horse, Corral. (Pen drawing.)

2361. The Old Trapper. (Pen drawing.)

2362. A Member of the Mounted Police, Canada. (Pen drawing.)

2363. Behind the Breastworks, Besieged by Utes. (Wash drawing.)
Shirlaw, Walter, New York.

2402. Broad Street Railway Station, Philadelphia. (Black and white.)
   Lent by Charles Scribner's Sons, New York.

Small, Frank O., Boston.

2403. Pop Concert. (Black and white.)

2404. The Last Picnic of the Season. (Black and white.)
   The above two drawings were lent by Harper & Bros., New York.

2405. The Dawn Struggling with the Night. (Black and white.)

2406. A Forgotten Ancestor. (Black and white.)

2407. Christmas Presents at the Breakfast Table. (Black and white.)

2408. Afternoon, Commonwealth Avenue, Boston. (Black and white.)

2409. Said in Passing. (Black and white.)

2410. Sketch No. 1, for "Life." (Black and white.)
   Lent by Mitchell & Miller, New York.

Smedley, W. T., New York.

2411. Exhibition Grounds in 1891. (Black and white.)

2412. Before the Agricultural Building. (Black and white.)

2413. Lake Front—side of main building. (Black and white.)
   The above three drawings were lent by Charles Scribner's Sons, New York.

2414. At the Hotel. (Black and white.)

2415. In a Restaurant. (Pencil.)

2416. Illustration. (Black and white.)

2417. Old Guard Ball. (Black and white.)

2418. An Invitation to the Dance. (Black and white.)

2419. In the House of Representatives. (Black and white.)

2420. Cowboy. (Black and white.)

2421. Illustration. (Wash drawing.)

2422. Ladies' Gallery, House of Representatives. (Black and white.)

2423. Easter Lilies. (Black and white.)

2424. Broadway at Night. (Black and white.)

2425. Promenade Concert, Madison Square Garden. (Black and white.)

2426. A Bishop. (Black and white.)

2427. Relics of George Washington. (Black and white.)

2428. Onnalinda. (Black and white.)

2429. When the Tide Comes in. (Black and white.)

2430. Jane Field, I aint Esther Maxwell. (Black and white.)

2431. On the Rocks at Narragansett Pier. (Black and white.)

2432. Sunday Morning, Fifth Avenue. (Black and white.)

2433. A King's Daughter. (Black and white.)

2434. Christmas Shopping. (Black and white.)

2435. On the Down Town Ferry. (Black and white.)

2436. A Bit of Decoration. (Black and white.)
UNITED STATES.

   It Was Near the Close of a Summer Afternoon. (Charcoal.)
   Lent by Charles Scribner’s Sons, New York.

2438. Windmill. (Charcoal.)

2439. Scene in Venice. (Black and white.)
   Stephens, Alice Barber, Philadelphia.

2440. Music. (Black and white.)
   Lent by Ladies’ Home Journal Philadelphia.

2441. Their Perfume Flooded the House. (Black and white.)
   Lent by Leslie’s Weekly, New York.

2442. Philadelphia Quaker. (Wash drawing.)
   Sterner, Albert E., Paris.

2443. Champigny. (Pen drawing.)

2444. My Cousin Fanny. (Pencil, with pen and ink remarque.)

2445. Where is That Idiot, That Dolt, That Sluggard, That Snail, with My Mail? (Wash drawing.)

2446. Walking Away With a Shrug of the Shoulders. (Wash drawing.)

2447. I Wept, I Wept, I Wept. (Black and white.)

2448. Passionnement was What I Wanted. The above six drawings were lent by the Century Co., New York.

2449. No Pertinacity. (Pen drawing.)

2450. The Rivals. (Wash drawing.)
   The above two drawings were lent by Harper & Bros., New York.

2451. Taber, W., New York. A Rescue. (Wash drawing.)

2452. The Hanging of Stuart by the First Vigilance Committee. (Pen drawing.)

2453. Mission Dolores, Sunday Afternoon. (Pioneer California.) (Pen drawing.)
   The above three drawings were lent by the Century Co., New York.

   Lent by W. C. Gibson, Port Chester, N. Y.

2455. Quarrel in the Tavern. (Black and white.)
   Lent by A. Schwarzmann.

2456. The Poet at the Breakfast Table. (Pen drawing.)

2457. Two Girls. (Pen drawing.)

2458. A Question of Wines. (Pen drawing.)

2459. At the Luncheon. (Pen drawing.)

2460. Gossip. (Pen drawing.)

2461. Hiring a Butler. (Pen drawing.)
   Taylor, W. L.

2462. On the Beach. (Wash drawing.)
   Lent by Charles Scribner’s Sons, New York.

2463. At Midday. The Last of the Buffaloes. (Wash drawing.)
   Lent by Charles Scribner’s Sons, New York.


2465. Columbian Exposition, Workers in Staff. (Black and white.)

2466. Belated Passenger. (Black and white.)

2467. An Evening at the Horse Show. (Black and white.)

2468. Admiral Walker. (Black and white.)
   The above five drawings were lent by Harper & Bros., New York.

2469. The Three Hussars. (Black and white.)
   Lent by Charles Scribner’s Sons, New York.

2470. The Dinner Table in a Norwegian Farmouse. (Black and white.)

2471. A Moujik’s Funeral. (Black and white.)

2472. Norwegian Fisher Family. (Black and white.)

2473. At the Traktier’s. (Black and white.)

2474. Kroll’s Garden, Berlin. (Black and white.)

2475. Military Road in the Caucasus. (Black and white.)

2476. Circassians of the Imperial Guard. (Black and white.)

2477. Georgian Princes. (Black and white.)

2478. The Yachting Party. (Black and white.)

2479. Persian Bazar at Nijni Novgorod. (Black and white.)

2480. Horse Artillery Going into Action. (Black and white.)

2481. Crossing the Channel. (Black and white, oil.)
   Tyler, Bayard H., New York.

2482. Group of Trees. (Charcoal.)

2483. Indian Head, Palisades. (Charcoal.)
   Van Schaick, S. W.

2484. Sketch No. 1, for “Life.” (Black and white.)

2485. Sketch No. 2, for “Life.” (Black and white.)

2486. Sketch No. 3, for “Life.” (Black and white.)

2487. Sketch No. 4, for “Life.” (Black and white.)

2488. Sketch No. 5, for “Life.” (Black and white.)

2489. Sketch No. 6, for “Life.” (Black and white.)
   Wenzell, A. B., New York.

2490. Won’t You take Me to My Aunty? (Black and white.)

2491. She Came Downstairs in a Great Fur-trimmed Robe. (Black and white.)
   The above two drawings were lent by the Century Co., New York.

2492. The Diamonds. (Black and white.)

2493. Sketch No. 1, for “Life.” (Black and white.)

2494. Sketch No. 2, for “Life.” (Black and white.)

2495. Sketch No. 3, for “Life.” (Black and white.)

2496. Sketch No. 4, for “Life.” (Black and white.)

2497. Sketch No. 5, for “Life.” (Black and white.)

2498. Sketch No. 6, for “Life.” (Black and white.)

2499. Sketch No. 7, for “Life.” (Black and white, oil.)
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<td>2500.</td>
<td>Sketch No. 8, for “Life.” (Black and white.)</td>
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<td>2501.</td>
<td>Sketch No. 9, for “Life.” (Black and white.)</td>
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<td>Sketch No. 10, for “Life.” (Black and white.)</td>
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<td>2503.</td>
<td>Sketch No. 11, for “Life.” (Black and white.)</td>
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<td>2504.</td>
<td>Sketch No. 12, for “Life.” (Black and white.)</td>
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<td>The above twelve sketches were lent by Mitchell &amp; Miller, New York.</td>
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<td>Wickenden, Robert J., New York.</td>
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<td>2505.</td>
<td>Study of Oaks.</td>
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<td>2506.</td>
<td>Ignace Jan Paderewski. (Charcoal.)</td>
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<td>2507.</td>
<td>I ain’t Religious; I Drink. (Wash drawing.)</td>
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<td>In the Dining Room, Y. W. C. A. (Wash drawing.)</td>
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<td>2509.</td>
<td>Photo Negative Retouching, Y. W. C. A. (Wash drawing.)</td>
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<td>2511.</td>
<td>Cohanim Blessing the People. (Wash drawing.)</td>
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<td>2512.</td>
<td>A Jewish Wedding. (Wash drawing.)</td>
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<td>2513.</td>
<td>Confirmation, Temple Emanu-El. (Wash drawing.)</td>
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<td>2514.</td>
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<td>A Reading from Homer.</td>
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<td>2517.</td>
<td>Lent by Mr. Henry G. Marquand, New York.</td>
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<td>Bastien-Lepage, Jules, 1848-1885, France.</td>
<td>Head.</td>
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<tr>
<td>2518.</td>
<td>Lent by Mr. Potter Palmer, Chicago.</td>
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<td>2520.</td>
<td>Lent from the collection of the late Mr. Jay Gould, New York.</td>
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<td>2521.</td>
<td>Lent by Mr. R. Hall McCormick, Chicago.</td>
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<tr>
<td>Breton, Jules-Adolphe, Paris.</td>
<td>The Song of the Lark.</td>
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<td>2522.</td>
<td>Lent by Mrs. Henry Field, Chicago.</td>
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<td>Colza-gatherers.</td>
<td>Lent by Mr. Collis P. Huntington, New York.</td>
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<tr>
<td>2524.</td>
<td>Lent by Mr. William Buchanan, New York.</td>
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<td>2525.</td>
<td>Portrait of Madam Modjeska.</td>
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<td>Lent by the Pennsylvania Academy of the Fine Arts, Philadelphia.</td>
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<td>Cazin, Jean-Charles, Paris.</td>
<td>The Expulsion from Paradise.</td>
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<td>2526.</td>
<td>Lent by Mr. Potter Palmer, Chicago.</td>
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<td>Elsinore.</td>
<td>Lent by Mr. Potter Palmer, Chicago.</td>
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<td>2527.</td>
<td>Flight into Egypt.</td>
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<td></td>
<td>Lent by Mr. Potter Palmer, Chicago.</td>
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<td>2528.</td>
<td>Midnight Moonlight, Abbeville, France.</td>
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<td></td>
<td>Lent by Charles T. Yerkes, Chicago.</td>
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<td>2529.</td>
<td>Lent by Mr. William H. Fuller, New York.</td>
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<td>2530.</td>
<td>The Lock. (Lent by Mrs. Henry Field, Chicago.)</td>
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<td>2531.</td>
<td>Shepherd and Flock — Dedham Church in the distance.</td>
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<tr>
<td></td>
<td>Lent by R. Hall McCormick, Chicago.</td>
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<td>Corot, Jean-Baptiste-Camille, 1796-1875, France.</td>
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<td>2532.</td>
<td>Lent by Mr. Potter Palmer, Chicago.</td>
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<td>2533.</td>
<td>Dance of the Nymphs.</td>
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<td>2534.</td>
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<td>Lent from the collection of the late Mr. Jay Gould, New York.</td>
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<td>2535.</td>
<td>The Path to the Village.</td>
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<td>Lent by Mr. Charles T. Yerkes, Chicago.</td>
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<td>2536.</td>
<td>Environs of Ville d’Avray, France.</td>
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<td></td>
<td>Lent by Mr. Charles T. Yerkes, Chicago.</td>
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<td>2537.</td>
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<td>Lent by Mr. Gardiner G. Hubbard, Washington, D. C.</td>
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<td>2538.</td>
<td>Old Man Seated on Corot’s Trunk in the Artist’s Chamber in Rome.</td>
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<td></td>
<td>Lent by Dr. Henry C. Angell, Boston.</td>
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2896. Evening. 
Lent by Mr. Alfred Corning Clark, New York.

2897. The Inn. 
Lent by Mr. Martin A. Ryerson, Chicago.

Courbet Gustave, 1819–1877, France. 
2898. Dogs and Hare. 
Lent by Henry O. Havemeyer, New York.

Couture, Thomas, 1815–1879, France. 
2899. Portrait of Madame Couture. 
Lent by the Museum of Fine Arts, Boston.

Dagnan-Bouveret, Adolphe-Pascal-Jean, Paris. 
2900. La Bernoise. 
Lent by Mr. John G. Johnson, Philadelphia.

2901. Brittany Peasant Girl. 
Lent by Mr. J. H. Wade, Cleveland.

Daubigny, Charles-Francois, 1817–1878, France. 
2902. The Cooper’s Shop. 
Lent by Mr. Francis Bartlett, Boston.

Lent by Mr. Charles T. Yerkes, Chicago.

2904. Coast near Dieppe. 
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Decamps, Alexandre-Gabriel, 1803–1860, France. 
Lent by Mr. Martin A. Ryerson, Chicago.

Degas, Paris. 
2906. The Dancing Lesson. 
Lent by Mr. Alexander J. Cassatt, Philadelphia.

2907. Race Horses. 
Lent by Mr. Albert Spencer, New York.

2908. Christ at the Tomb. 
Lent by Mr. Alfred Corning Clark, New York.

2909. Tiger Quenching his Thirst. 
Lent by Mr. Alfred Corning Clark, New York.

2910. Turks Abducting a Girl. 
Lent by Mr. William H. Crocker, San Francisco.

2911. Flag of Truce. 
Lent by Mr. E. Burgess Warren, Philadelphia.

Diaz de la Peña, Narcisse-Virgile 1808–1876, France. 
2912. La Danse des Almées. 
Lent by Mr. John G. Johnson, Philadelphia.

2913. The Descent of the Bohemians. 
Lent by Mrs. S. D. Warren, Boston.

2914. Turkish Women. 
Lent by Mr. D. M. Ferry, Detroit.

Dupre, Jules, 1812–1889, France. 
2915. The Pool. 
Lent by Mr. E. Burgess Warren, Philadelphia.

2916. The Open Sea. 
Lent by Mr. William H. Fuller, New York.

2917. At Sea. 
Lent by Mr. Charles T. Yerkes, Chicago.

2918. Vision of Tannhäuser. 
Lent by Mr. J. H. Wade, Cleveland.

Fortuny, Mariano, 1838–1874, Spain. 
2919. Beach at Portici, Italy. 
Lent by Mrs. Prescott Hall Butler, New York.

2920. Sun Breaking Through the Mist. 
Lent by Mr. William Buchanan, New York.

Fromentin, Eugène, 1820–1876, France. 
2921. The Falconer. 
Lent by Mr. D. W. Powers, Rochester.

2922. Woman of Sahara. 
Lent by Mrs. Henry Field, Chicago.

2923. Study of a Cuirassier. 
Lent by the Museum of Fine Arts, Boston.

2924. L’Eminence Grise. 
Lent by Mrs. S. D. Warren, Boston.

2925. Le Montreur de Serpents. 
Lent by Mr. Alfred Corning Clark, New York.

Greuze, Jean-Baptiste, 1725–1805, France. 
2926. The Pouting Child. 
Lent by Mr. Martin A. Ryerson, Chicago.

Helleu, Paris. 
2927. Interior of St. Denis Cathedral, showing effect of light through Stained Glass Windows. 
Lent by Mrs. John L. Gardner, Boston.

Ingres, Jean-Auguste-Dominique, 1780–1867, France. 
2928. The Cardinal Bibiena Introducing Raphael and his Niece. 
Lent by Mrs. S. D. Warren, Boston.

Isabey, Eugène, 1804–1886, France. 
2929. A Fête at the Hotel de Rambouillet. 
Lent by Mr. Samuel M. Nickerson, Chicago.

Isaëls, Josef, Amsterdam. 
2930. A Frugal Meal. 
Lent by Mr. Charles T. Yerkes, Chicago.

Knauts, Ludwig, Berlin. 
Lent by Mr. Charles T. Yerkes, Chicago.

The Potato Harvest. 
2932. Lent by Mrs. Henry Field, Chicago.
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<td>Morning Fog</td>
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<td>2958</td>
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<td>2960</td>
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<td>2972</td>
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2973. View on the Seine.
   Lent from the collection of the late Mr. Jay Gould, New York.

2974. A Lone Tree—Autumn.
   Lent by Mr. Frank Hill Smith, New York.

Sisley, Alfred, Paris.

2975. Village Street, Moret, France.
   Lent by Mr. Potter Palmer, Chicago.

Swan, John M., London.

2976. The Approaching Combat,
   Lent by Mr. John G. Johnson, Philadelphia.

2977. Two Tigers,
   Lent by Mr. John G. Johnson, Philadelphia.

2978. Lioness and Cubs.
   Lent by Mr. William L. Elkins, Philadelphia.

Tassaert, Nicolas-Francois-Octave, 1800–1874, France.

2979. Saint Hilarion.
   Lent by Mr. Potter Palmer, Chicago.

Thompson, Harry, Paris.

2980. The Shepherdess.
   Lent by the St. Louis Museum of Fine Arts.

2981. Troyon, Constant, 1810–1865, France.
   A Drove of Cattle and Sheep.
   Lent by Mr. Cornelius Vanderbilt, New York.

2982. White Cow and Sheep.
   Lent by Mr. Julius Stroh, Detroit.

2983. Going Home. (Lent by Mrs. Henry Field, Chicago.)

2984. The Surf.
   Lent by Mr. Gari Melchers.

Uhde, Fritz von, Munich.

2985. A Sewing Bee in Holland.
   Lent by Mr. L. Crist Delmonico, New York.

Van Beers, Jan, Brussels.

2986. “You Are Welcome.”
   Lent by Mr. Charles T. Yerkes, Chicago.

Watts, George Frederick, London.

   Lent by Mr. Charles L. Hutchinson, Chicago.

Zorn, Anders L., Stockholm.

2988. Bottling Works.
   Lent by Mr. Potter Palmer, Chicago.


2989. Cupid and Psyche. (Marble Group.)

2990. The Sphinx. (Marble.)

2991. Andromeda. (Marble.)
ALGERIA.

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Marzocchi, Numa, Alger.
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AUSTRIA.

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3. The Creeping Tiger.
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18. Evening.
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22. The Good Brother.
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Blau, Tina, Munich.
24. Fallen Giant.
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27. The First Communion of the Hussites.

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44. The Visit to the Laundry.
Gloss, Ludwig, Moedling.
45. The Antiquarian.
Goltz, Alexander D., Vienna.
46. Christ and the Women.
47. Flower Girl at Constantinople.
Hamza, Johann, Vienna.
48. The Dice-throwers.
Hasch, Carl, Vienna.
49. Old Sawmill in the Eschern Valley.
Hirschl, Adolf, Vienna.
50. Prometheus.
51. Wedding Procession.
Hoermann, Theo. v., Znaim.
52. Girls Hunting Mushrooms.
Hoffmann, Josef, Znaim.
53. From Bygone Days.
Hradecky, Vaclav, Prague.
54. Peasants' Rebellion in Bohemia.
Huber, Rudolph, Vienna.
56. Fighting Cows.
57. Ramsau Scenery.
58. Shore of the Seine.
59. Dutch Landscape.
60. The Graben in Vienna.
61. The Indiscreet Friend.
62. "Age is not Proof against Folly."
63. The Eternal Siren.
64. Triton's Fight.
65. A Dude in the Country.
66. The Fortune Teller.
67. Still Life.
68. The Kiss.
69. Gulf of Quarnero.
70. Smelling.
71. Tasting.
72. Feeling.
73. Hearing.
74. The Falconer.
75. Moll, Karl, Vienna.
76. The Roman Ruins in Schoenbrunn.
77. Mueller, Anton, Vienna.
78. Market Place in Cairo.
79. The Duet.
80. Tribute to the Monastery.
81. Mountain Brook Torrent.
82. Never Retreat.
83. Autumn Evening.
84. Late Autumn.
86. Paining the Hearth.
87. Market.
88. Farmhouse.
89. Gipsy Hut in the Forest.
90. Probst, Carl, Salzburg.
91. The Consultation.
92. Reichert, Carl, Salzburg.
93. After the Hunt.
94. Ruben, Franz, Vienna.
95. Autumn Day on the Lido.
96. From Romantic Times.
97. Schmid, Mathias, Munich.
98. Schindler, Jac., on the Lido.
100. View of Ragusa.
101. Peace.
102. Flock of Sheep in Hungary.
103. Peasant in Bohemia.
104. Peasant Woman in Bohemia.
105. The Holy Family.
106. Prof. Billroth's Clinic.
108. A Wolf!
109. Un Soldo, Signore.
110. Before the Holidays.
111. Portrait of William Unger.
112. The Holy Family.
113. Alt, Rudolph, Vienna.
114. Fountain at Trient.
115. Interior of Saint Mark's, at Venice.
117. The Old Ducal Castle at Bruck a-M.
118. Interior of the Presbytery of the Saint Stephen Church at Vienna.
119. Portico in the Wallenstein palace at Prague.
120. Belvedere at Vienna.
121. Castle Taufers in Tyrol.
122. Church at Innsbruck.
123. The Chusun Temple at Karnak.
124. The Grand Temple at Karnak.
125. The Bay of Cattaro.
126. Hoffmann, Josef, Znaim.
127. Payerbach.
128. Muench-Bellinghausen, Constanze, Pola.
129. Chestnut Blossoms.
130. Rosses.
131. Fierz, Heinrich, Vienna.
132. Salzskammergut.
133. Church at St. Wolfgang.
134. Zetsche, Eduard, Vienna.
135. Town-gate at Sulzfeld a-M.
136. Tower at Sulzfeld a-M.
137. Paintings on Ivory, on Enamel, on Metal, on Porcelain or other Wares; Fresco Painting on Walls.
139. Josef Haydn.
140. Ludwig von Beethoven.
141. Portrait of His Majesty the Emperor of Austria.
BELGIUM.

GROUP 139.

Sculpture.

Braccke, Pierre, Brussels.
1. Deserted. (Statuette, bronze.)
2. Charlier, Guillaume, Brussels.
3. Girl. (Bust, marble.)
4. Turkey. (Bronze.)
5. De Keyser, Jean Baptiste, Brussels.
6. St. Cecilia, Singing. (Marble bust.)
7. De Mathelin, Maurice, Liége.
8. Woman Collier. (Bronze statuette.)
10. After the Walk. (Statuette, marble.)
11. Manon Lescaut. (Bust, marble.)
12. La Nique. (Statuette, bronze.)
14. Knight of the Middle Ages. (Bronze.)
15. Napoléon Improvisator. (Bronze.)
17. Poverella. (Statue, marble.)
18. Domenica. (Statue, bronze.)
19. Amertume. (Bust, marble.)
20. Psyche. (Bust, marble.)
21. Roman Woman. (Bust, bronze.)
23. An Edict, 15th century. (Statuette, bronze.)
24. Curfew, 15th century. (Statuette, bronze.)
25. Crossbowman, 15th century. (Statuette, bronze.)
26. A Proclamation. 15th century. (Statuette, bronze.)
27. Herain, Jean, Brussels.
28. A Captive. (Marble.)
29. Going to the Fields. (Bronze.)
31. The Ship's Boy. (Marble bust.)
32. The Cherry. (Marble.)
33. Fantasy. (Bronze, bust.)
35. Course Folatrel. (Bronze.)
36. Child Life. (Marble.)
37. Quand la bisc fut venu. (Bronze, Cire perdue.)
38. Polar Bear. (Bronze.)
40. Girl and Turtle Doves. (Marble.)
41. A Spinner. (Bust with arms, marble.)
42. Samueil, Charles, Brussels.
43. Primavera. (Bronze, bust.)
44. Prelude. (Statuette, bronze.)
45. Van Buren, Alphonse, Antwerp.
46. Forced Bath. (Group, Bronze, Cire perdue.)
47. Quinten Matsys. (Bust, marble.)
48. Young Singer. (Bust, marble.)
49. Van der Straeten, Georges, Paris.
50. Portrait of Monsieur Worth. (Bust, marble.)
51. Spring. (Bronze.)
52. Winter. (Bronze.)
53. Idyl. (Bronze.)
54. Weyns, Jules, Antwerp.
55. Sweet Slumber. (Statue, marble.)
56. The Bird Catcher. (Bust, marble.)
57. Willems, Joseph, Malines.
58. A Child. (Bronze bust.)
59. L'Epervier. (Group, bronze.)
60. Clown. (Statuette, bronze.)

GROUP 140.

Paintings in Oil.

Abry, Leon, Antwerp.
1. The Sparrow of Lesbia.
2. Anten, Djez, Hasselt.
3. December Morning.
5. After the Storm. Marine.
6. Asselberghs, Alphonse, Uccle near Brussels.
7. Toward Evening on a Fine Winter Day in Campine (Belgium).
10. Autumn Leaves (Afternoon).
11. Autumn Day in the Ardennes.
13. In Holland.
15. Entrance of the Convent.
16. Autumn Evening. (Woman's Building.)
17. Bellis, Hubert, Brussels.
18. Strawberries.
19. Game.
23. In Sunday Attire.
24. Interior (Afternoon).
27. Bourrotte, Auguste, Brussels.
29. In the Fields.
31. Marine.
32. Broereman, Eugène, Brussels.
33. In the Bruyère.
34. Oliva.
35. Brunin, Leon, Antwerp.
36. A Visit to the Studio of Benvenuto Cellini.
37. Declaration of Love.
38. Cap, Constant, Antwerp.
40. Carabain, Jacques, Brussels.
41. La Piazza Guilio Cesare, at Rimini, Italy.
42. View of Cogoleto on the Mediterranean, said to be the birthplace of Columbus.
43. Carpentier, Evariste, La Hulpe.
44. Summer Sun.
45. Convalescence.
Claus, Emile, Astene.

75. Cock Fight in Flanders.

76. Coenraets, Charles, Brussels.

77. Woodturners' Shop (Brussels type).

78. The Departure of the Herd.

79. The Springs of Schavues.

80. A Farm. (Woman's Building.)

81. Wooded Path in the Campine.

82. Courtens, Franz, Brussels.

83. Road Through the Dunes.

84. Brussels.

85. The Return to the Farm.

86. Dael, Auguste, Ghent.

87. Jealousy.

88. While the Husband is Away.

89. In Zeeland.

90. Herder Assembling his Flock.

91. Return to the Stable, in the Campine.

92. De Bats, Auguste Marie, Bornhem.


94. De Bruyn, Frans, Antwerp.

95. De Coster, Sophie, Brussels.

96. The Orphan.

97. De Hem, Louise, Ypres.

98. The Sexton. (Belongs to the Museum of Ypres.)


100. A Schoolmaster.

101. De Kayser, Nicease (deceased).

102. The Holy Week in Seville.

103. De Keizer, Nasica (deceased).

104. De Kuypers, Nicaise (deceased).

105. De Keyser, Nicaise (deceased).

106. The Holy Week in Seville.


110. De Nacery, Charles, Brussels.

111. Still Life.

112. Still Life. (Cheeses.)

113. Church of Wondelgem. Winter Scene.

114. Portrait of M. E. D. V.

115. De Rickx, Louis, Antwerp.

116. The Storm.

117. The Harvest.

118. De Schamphleeer, Edmond, Brussels.


120. Holland Prairies.

121. De Smeth, Henri, Borgerhout.

122. The Smoker.

123. De Vigne, Emma, Ghent.

124. Flowers.

125. De Vriendt, Albrecht, Antwerp.

126. Charles VI and Odette.

127. De Vriendt, Juliana, Brussels.

128. Souvenir of Cairo.

129. Dieckx, Omer, Brussels.

130. Dielman, Marguerite, Brussels.

131. Frank.

132. Dierickx, Omer, Brussels.

133. Reunion of Friends.

134. Dreary Waking.

135. Dillens, Albrecht, Brussels.

136. Shrimp Gatherers.

137. Farasyn, Edgard, Antwerp.


139. L'Ecole Buissonnière.

140. Fichefet, Georges-Francois-Paul, Brussels.

141. Bather.

142. Fischer, Alice, Brussels.

143. Glaiuels.

144. Frank, Lucien, Tervueren.

145. Gailliard, Francois, Brussels.

146. La Porte de Hal in Brussels.


148. Bad Reception.

149. Gevers, Helène Antwerp.

150. Arab Merchant.

151. A Future Poet.

152. Goding, Emile, Antwerp.

153. One Florin Five Cents, Four Deniers.

154. Goemans, Gustave-Hubert, Ghent.

155. Summer.

156. Sunshine on the Avenue.


158. Girl, Dressing.

159. Girl, Dressing.

160. Guitta, Julie, Antwerp.

161. Evening.

162. Halle, Oscar, Antwerp.

163. The Last Day of Autumn.

164. Reading of the Bible at the Old Men's Hospice.

165. Hagemans, Maurice, Bruges.

166. Snow in the Forest of Soigne.

167. Woman, Louise, Brussels.

168. Banks of the Ourthe River.

169. Herbo, Leon, Brussels.

170. Souvenir of Italy.

171. Hoexterickx, Emile, Brussels.

172. Arrival of the Mailboat at Dover.


174. Winter Twilight.

175. Horebants, Joseph, Ghent.

176. Young Woman.

177. Huysmans, Jean Baptiste, Hove.

178. Visit of the Merchant (Algeria).

179. Jacobs, Adolphe, Brussels.

180. Stable at Boitsfort.


182. The Scheldt with Floating Ice.

183. Evening on the Lower Scheldt.


185. Flemish Farm.

186. Shores of the Lake of Neuchatel.


188. A Hazard.

189. Gallantry.

190. Lamorinière, Francois, Antwerp.


192. Snow Effect, near Antwerp.
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**Note:** This list includes various works of art representing different artists and their locations across Belgium. It spans various themes and mediums, showcasing the diversity of artistic expression in the country.
DEPARTMENT K.—FINE ARTS.

Free Fair of Antwerp. First half of sixteenth century.

Van Geert, Flora, Antwerp.

226. Chrysanthemums.

227. Mimosas.

Van Hove, Edmond, Bruges.

228. The Virgin and the Infant Jesus.

Van Kuyck, Frans, Antwerp.

229. The Potato Gathering.

Van Leemputten, Corneille, Brussels.

230. The Return of the Herd.

Van Leemputten, Frans, Antwerp.

231. End of Autumn in the Campine.

Van Luppen, Frans, Brussels.

232. The Return.

Fog in the Woods. (End of November.

Van Luppen, Prosper, Antwerp.)

234. Autumn.

Van Seben, Henri, Brussels.

235. Should it be He!

Vanden hollen, W., Brussels.

236. Village in Holland (Winter).

Van Severdonck, Joseph, Brussels.

237. Le Coup de Collier.

Van Snick, Josef, Nieulkerken.

238. L’Hospice.

241. Laceworkers.


242. The Will of Christopher Columbus.

(According to Lamartine.)

Verhas, Jan, Brussels.

243. The Martyrs of the Beach.

Verhas, Jan, Brussels.

244. The Walk on the Dyke at Heyst-sur-

Mer.

Verhas, Frantz, Brussels.

245. The Flowers.

246. Holiday.

Verheyden, Isidore, Brussels.

247. Shrimp Fishers.

Verstraete, Theodore, Antwerp.

248. Orchard in Zeeland.

249. The Dyke (Evening).

250. Wytsman, Juliette.

251. Peonies.

GROUP 141.

Paintings in Water Colors.

Bamps, Paul, Hasselt.

252. Boulevard in Hasselt (Snowstorm).

253. Fishing Boats (Heyst).

Claus, Emile, Astene.

254. The Turkey Girl.

Confidential Messenger.

255. Winter Days.

Coenraets, Ferdinand, Brussels.

256. Pond near Brussels (Morning).

257. Quay at Antwerp.

258. Hagemans, Maurice, Brussels.

The Dyle at Malines.

259. The St. Simonians at Malines.

260. Stacquet, Henry, Brussels.

261. In Ostend Port.

262. The Dyke at Heyst.

Themon, Paul, Namur.

263. November Morning on the Meuse.

264. Quiete Corner.

Uytterschaut, Victor, Brussels.

265. Marine Boats Stranded at La Panne

(Morning).

266. Landscape at Harbespine.

Verhas, Jan, Brussels.

267. Summer Sun.


GROUPS 143 and 144.

Engravings and Etchings; Prints.

Benoit, Clement, Mons.

269. Head of a Lion. (Original Etching.)

270. Portrait of Mr. B.

Biot, Gustave, Antwerp.

271. Aigae. (Engraving after Cabanel.)

272. The Review of the School. (Engraving

after Jan Verhas.)

Greus, Louis, Mons.

273. A frame containing engravings:

1. Adam. (After Van Eyck.)

2. Portraits of Children, after Duch-

atel.

Saint John. (After Donatello.)

4. Portrait of Mr. B.

274. Four portraits. (Pencil drawings.)

275. Etchings.


277. Etchings.

278. Lenain, Louis, Brussels.

279. The Rape of the Daughters of Leucyp-

us, by the Diocures. (Engraving after

Rubens.)

280. The Idyl. (Engraving after Rubens.)

281. Various Pen Drawings.

282. Ruins of the Abbey of Villers.

283. A Cavalry Bugler.

284. a Engraving after Rubens.

b Engraving after Van Dyck.

c Etching after Frans Hals.

285. a Portrait of L. Gallait. (Original

etching.)

b Portrait of Peter Benoit. (Original

etching.)

286. Pastel (Fruit).

287. Pastel (Grapes). (Woman’s Building.)
GROUP 139.

Sculpture.
Rodolfo Bernardelli.
2. St. Estevao.
3. Dr. Montenovese.
4. Dr. Benjamin Constant.
5. D. Pedro d'Alcantara.
6. Jose Bonifacio.

GROUP 140.

Paintings in Oil.
Agostinho da Motta.
7. Fruit of Brazil.
8. Head of an Old Man.
Almeida Jr., J. F. de, Os caipiras negaceando.
9. The Rest of the Model.
10. The Reader.
Antonio Parreiras.
11. Panorama of the City of Nectheroy.
12. Evening.
13. Landscape.
Aurelio de Figueredo.
14. Tiradentes.
Belmiro de Almeida.
15. Figue.
16. Study of a Head.
Caron H. Boaventura.
17. Landscape.
Castagneto, J., Baptista.
Facchinetti, Nicolau.
20. Panorama of Nectheroy.
21. Lake of Rodrigues de Freitas.
Firmino Monteiro.
22. Landscape.
23. Funeral of Camorin.
Fiuza Guimaraes, Jose.
24. Landscape.
25. Landscape.
26. Landscape.
27. Landscape.
28. Landscape.
29. Landscape.
30. Landscape.
31. Landscape.
Henrique Bernardelli.
32. Bandeirantes.
33. Tarantella.
34. Return of the Work.
35. Mater (Mother).
37. Portrait.
38. Uncle Thomas.
39. Study of a Head.
40. Wood Cutter.
41. Landscape.
42. Empire.
43. Indian.
J. Baptista da Costa.
44. In the Orchard.
45. Marguerites.
46. Capadocio.
47. Landscape.
48. Dwelling.
49. Cabbages.

GROUP 145.

Antique and Modern Carvings; Engravings in Medallions or in Gems;
Cameos, Intaglios.
A. Girardet.
95. Two Ballet Girls.
96. Arrested Love.
97. Two Cupids.
98. Three Heads Symbolic of the Republic.
100. Two Bassi-Relievi.
BRITISH GUIANA.

GROUP 140.
Paintings in Oil.
(Installed in Agricultural Building.)
Brown, Capt., Montagn, Georgetown.
1. The Fight of the Peacock and the Hornet off Georgetown.
2. The Port of Georgetown.

GROUP 141.
Paintings in Water Colors.
British Guiana Museum.
3. Twenty-nine Views of British Guiana Inland Scenery.

CANADA.

GROUP 140.
Paintings in Oil.
Adams, J. M. F., Toronto.
1. In the Studio.
2. Cradled in the Net.
Alexander, C., Galt, Ont.
Atkinson, W. E., Toronto.
5. Moonlight.
6. Autumn Evening, Bretagne.
Barnsley, J. M., Montreal.
Bell, Mary A., A. R. C. A., Almonte, Ont.
10. Summer Time.
Bell-Smith, F. M., R. C. A., Toronto.
11. Le Soir.
12. Landscape.
Brownell, F., Ottawa.
Anderson’s Garden.
Lake Louise, Rocky Mountains.
17. Lake Agnes, Rocky Mountains.
18. Enter’ Acte.
Border of the Forest Fontainebleau.
20. Forty Winks on a Sunday Afternoon.
22. A Sweet Penitent.
23. Where the Mistletoe Grows.
Cullen, M. G., Paris.
27. On the River at Greitz.
30. DeForest, H. J., St. John, N. B.
31. Valley of the Wauganni River, at Evening, N. Z.
32. Dignam, Mary E., Toronto.
33. In the Vineyard.

GROUP 32.
Still Life, Pumpkin.
Dyonnet, E., A. R. C. A., Montreal.
33. Statuary.
34. Landscape with Cattle, France.
Harris, Robert, Pres. R. C. A., Montreal.
35. Landscape with Sheep, France.
36. At Sorgues, near Paris.
37. Landscape with Cattle, France.
38. Landscape near Fontainebleau.
40. Maternity.
41. Chalk Cliffs, near Dover.
42. Coast of Maine.
43. The Old Home.
44. A Rocky Mountain Cañon.
45. The Old Story.
46. Gossips.
47. Fantaisie Japonaise.
48. Still Life.
49. A Highland November Morning.
Graham, J. L., Montreal.
50. Pastures Green.
51. Study of a Cow.
Grierson, J., A. R. C. A., St. John, N. B.
52. Portrait, Miss M. Cawthra.
53. Portrait of a Physician.
Hammond, J., A. R. C. A., St. John, N. B.
54. Herring Fishing, Bay of Fundy.
55. The Great Illicilliwaet Glacier, Selkirks.
56. The Fraser River, Yale.
Harris, Robert, Pres. R. C. A., Montreal.
59. Composing his Serenade.
60. Portrait; Miss Peterson.
61. “The Homely House that Harbours Quiet Rest.”
62. Harmony.
Holden, Sarah B., Montreal.
63. Portrait.
64. A Brittanry Interior.
65. A Son Gout.
Hope, William, Montreal.

66. Table du Roi, Forest of Fontainebleau. 
67. Houghton, Margaret, Montreal. 
69. Landscape with Gipsies. 
70. Landscape. 
71. Landscape. 
73. Landscape. 
74. Landscape, etude a la lumiere d'une chandelier. 
76. MacKillean, D. P., Montreal. 
78. Evening after Winter. 
79. Ducks. 
80. On Guard. 
81. Morrice, J. W., Montreal. 
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156. Dark Pool on a Dull Day. 
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1. Fac-simile of Statue of Juan Santamaria.

GROUP 140.
Paintings in Oil.

Valiente, Francisco, San Jose.
2. The Revery.
3. High Sea.
4. Recollections.

GROUP 143.
Engravings and Etchings; Prints.

Langenbert, G., San Jose.
5. View of San Jose.

GROUP 144.
Chalk, Charcoal, Pastel and Other Drawings.

Garcillan, Ciriaco, San Jose.

Ruddy Paynter, San Jose.
7. Crayon Portrait of the President of the Republic.

Valiente, Francisco, San Jose.
8. Crayon Portrait of Senor Garay, Mexican Minister.

Gonzalez, P., San Jose.


GROUP 145.
Antique and Modern Carvings; Engravings in Medallions or in Gems;
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Gonzalez, P., San Jose.
11. Fac-simile of Monunt of 1856.
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2. A Danaide. (Marble.)
Boegebjerg, R.
3. A Girl from Fanoe. (Bust, marble.)
Bundgaard, A. J.
4. Will o’ the Wisp. (Statue, plaster.)
5. Laborer. (Statue, bronze.)
Dan, Johanne.
6. A Snake Charmer. (Statue, bronze.)
Hasselr's, L.
7. Christ.
8. Columbus.
Kroyer, P. S.
9. The Poet, Alex. Kjelian. (Bust, plaster.)
10. The Poet Holger Drachmann. (Bust, plaster.)
11. The Painter, Michal Ancher. (Bust, plaster.)
12. The Violinist, Anton Svendsen. (Bust, plaster.)
13. The Zoologist, J. C. Schjodte. (Bust, plaster.)
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15. A Calf. (Bronze.)
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16. His Majesty, King Christian IX. (Statue, bronze.)
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17. Susanne Before the Elders.
18. Lady Macbeth Walking in Her Sleep.
Schultz, Jul. Vilh.
19. Vittaro. (Statuette, marble.)
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27. Fisherman Returning Home.
28. Three Old Fellows.
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30. The Mill Yard.
31. Hussars on the Commons.
Ball, Otto.
32. Sunset.
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655. Retreat by Torchlight.
Richemont, Alfred-Paul-Marie de, Paris.
656. Sacrifice.
Ritchet, Leon, Paris.
659. Snow in the Forest of Fontainebleau.
Don Juan in Hell.
662. Under Louis XVI.
Rochegrosse, Georges, Paris.
663. The Spot.
664. The Affianced.
666. Close Reverie.
670. Portrait of Madame Alexandre Nozal and her Son.
671. The Dead Converging in the Other World.
673. The Young Girls Chasing Butterflies.
674. Evening at a Fete in Provence.
676. Zouaves and Fort Soldiers on Duty.
677. Love and Psyche.
679. Nanarel.
681. The Chalky Road near Avignon.
683. Portrait of Professor Charcot.
685. Reverie.
687. Close of a Bull Fight at Seville.
688. Holy Week at Seville.
690. Soudja Sari.
691. The Fortunate One.
693. Marat, Friend of the People.
695. Meditation.
697. Village in Lorraine, Banks of the Mounzou.
699. Ducal Despremenil Mobbed by the Populece; 1793.
701. A Daughter of Rajahs.
703. St. George and the Dragon.
704. Annam Tiger.
706. Spring.
708. Worm Hunter at Daylight.
710. Fenneman Sounding the Retreat from the Water.
712. Mouth of the Seine at Villerville.
714. Cupid and Psyche.
715. "The Boats do Not Return."
717. First Commencement.
719. My Start in Hunting.
720. Tissot, James, Paris.
721. The Prodigal Son. Two paintings.
722. The Departure.
723. In a Strange Land.
724. The Return.
725. The Fatted Calf.
727. A Bather.
733. A Singing Lesson in a Public School in Paris.
735. In the Vosges Mountain.
737. Mater Dolorosa.
739. At the Fete of the Espalanean of the Invalides.
741. The Last Load of Wheat.
743. Wicked War.
744. The Death of Archimede.
746. In the Basque Country.
747. Winter Pastures.
748. An Inn in Old Castille.
750. Flushing.
752. The Muscadine Hero.
753. Portrait of Boucher-Cadart.
754. Portrait of Firmin Javel.
756. The Gallant Chasseur.
758. Basilissa.
760. Portrait of a Young Woman.
762. Statue of Colleone, Venice.
767. Saint Cecelia.
769. Portrait of President Carnot.
Zillhardt, Jenny, Paris.


Under the Beeches.

Evening Fog.

Pasture Land in the Jura.


A Lesson at the Institute for the Blind Children at Iziach.

GROUP 143.

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Engravings and Lithographs.


The Return.


Portrait of Madame Jarre.

The Little Girl and the Shepherds' Crook.


Juan Prim.

Baude, Charles, Paris.

The Old Woman.

A. Dumas, Jr.

Baudoin, Franck, Paris.

A Drinker.

Bazin, Leon, Paris.


Brazemus.

Boivin, Emile.

General Moreau.

The Bibliophiles.

Portrait of Mme. L. S.


Portrait of Beatrice D'Este.

Annunciation of the Virgin.

Braquemond, Felix, Sèvres.

David.

The Lost Chance.

The Water Drawers.

Brunet-Debaines, Louis, Rouen.

St. Peter's Church at Caen.

Willows Whiten, Aspens Quiver.

View of Venice.


Westminster Bridge.


Chocolat Furieux.

Monseigneur de Segur.

Chaingneau, Ferdinand, Paris.

A Warm Day.


The Last Judgment.

Chauval, Theophile, Paris.

The Storm.


The Reapers.

Danguin, Jean-Baptiste, Paris.

The Virgin.

Young Woman at Her Toilet.

Rembrandt's Sisters.

Portrait of Pius VII and Cardinal Caprara.

Debois, Charles-Théodore, Varanne-Saint-Hilaire.

Interviewing.

Decay, Eugène, Paris.

Oatmeal Broth, Breton House.


Chartres Cathédrale.

770. Mont St. Michael.

Delavallée, Henri, Paris.

Angelique at Her Window.

Snow Effect.


Grandmother.

Deville, Maurice, Paris.

Head of a Young Girl.

Desmoulins, Fernand, Paris.

The Empress.

Justice.

Portrait of Anne of Cleves.

Poetry.

Portrait of M. Thiers.

Didier, Adrien.

Justice.

Poetry.

Portrait of M. Thiers.

Portrait of Anne of Cleves.


The Shower.


Charon's Bark.

The Divine Tragedy.

Flameng, Leopold, Paris.

Shepherd.

The Glorification of Law.

Grolier at the Printer Aldie's House.


The End of the Book.

Corner of the Farm.

Froment, Emile, Paris.

Portrait.


The Sheriffs.


Frame with two Colored Engravings—Souvenir and The Abandoned One

Gautier, Armand.

Friday's Promenade.

Portrait of M. Delyenne.

Gilbert, Achilles.

The Big Stag.

The Boars.

Goeneutte, Norbert, Paris.

Maud.

Venice from the Slavonic Quay


Rock Crystal Vase.

Portrait of my Mother.

The Bridge at Mantes.


The Harbor of Dunkirk.


Hill-Bobb.


Herd of Sheep.


The Report.

The Flag Painter.

The Sharpshooters.


Portrait of the Sergeant.

"1814."

"1807."

Jacob-Bazin, Madame, Paris.

Springtime.


The Children of Van Dyck.

Portrait of Helen Fourment.

The Young Duke.
Lalauze, Adolph.
817. The Halt.
818. The States' General, June 23, 1789.
Leconteux, Lionel, Paris.
819. The Lunch.
820. End of the Summer.
821. Return from the Bear Hunt—Stone Age.
822. Cathedral of Rouen.
823. Fete at the Tuileries.
825. Portraits of E. Morin and Jules Janin.
826. The Cervarolles.
827. The Oath of the Horatio.
829. Inauguration of the Opera.
830. Bust of Baudry.
Levy, Gustave.
831. Virgin with a Veil.
832. Melody.
Louveau-Rouveyre, Mme., Paris.
833. Portrait of Andre Vesale.
834. Portrait of Madame Beereystine.
836. The Order.
837. The Song.
Pannemaker, Stephane, Paris.
841. Young Girl.
842. The Dream.
Patriot, Jean, Neuilly-sur-Seine.
843. Portrait of Raphael's Mother.
844. The Vision of Ezekiel.
Poncet, Jean-Baptiste, Lyon.
845. Adam and Eve.
846. The Burning Bush.
847. Birth of Jesus.
848. The Entry into Jerusalem.
849. Jesus Ascending Calvary.
850. Reverie.
Rapine, Francois, Boulogne-on-the-Seine.
851. Rabbi, Commenting on the Bible.
852. Portrait of Queen Isabel.
Rousseau, Alfred, Paris.
853. The Lost Travelers.
Sirouy, Achille, Paris.
854. The Sleeping Jesus.
855. The Descent from the Cross.
856. Venus and Adonis.
Sulpis, Jean-Joseph.
857. Staircase of the Opera House.
858. Saint Sebastian.
Tissot, James, Nantes.
860. The Fatted Calf.
Villemens, Adrien, Noisy-le-Grand, Seine-et-Oise.
861. Marriage of Charles VII and Anne de Bretagne.
Vintraut, Frederic-Godefroy, Havre.
862. The Bohemian Girl.
863. A Man's Head.
Drawings, Pastels, Water Colors and Miniatures.
864. Descent Into Wolf Hollow, Fontainebleau.
865. The Faries' Pool, Fontainebleau.
Bida, Alexandre, Paris.
Biva, Henri, Paris.
868. Roses and Nasturtiums.
869. The Water Color Painter.
Contal, Jeanne, Paris.
870. Seven Miniatures on Ivory, framed:
871. The Letter.
872. Young Girl.
873. Portrait of M. M. C.
874. The Smile.
875. Portrait of Emil T.
876. Portrait of M. T.
877. Young Girl with a Boa.
Bellanger, Camille-Felix, Paris.
878. Portrait of Mme. B.
Cagniart, Emile, Paris.
879. Place de la Concorde, Paris.
880. Place du Chatelet, Paris.
882. Meditation.
883. Moonlight.
884. Portrait of Madame A. D.S.
Houbon, Frederic, Paris.
885. Village Idyl.
Iwill, Marie-Joseph, Paris.
886. Morning.
887. An April Evening in Fontainebleau Forest.
Laurens, Jean-Paul, Paris.
888. Set of Drawings Illustrating Merovin-
gian History.
889. Six Ivory Miniature Portraits:
890. Portrait of Mlle. H. de M.
891. Portrait of Count C.
892. Two Portraits of Children.
893. Portrait of a Young Girl.
894. Portrait of Countess S.
896. Banks of the Sarthe, Morning.
897. Twilight on the Sarthe.
898. Banks of the Ain.
899. Oak, Twilight.
Raffaelli, Jean-Francois, Paris.
901. Neapolitan Fruit Seller and his Donkey.
902. Flowers and Fruit.
903. The President of the Senate at Wash-
ington, Senators, Metropolitan Club.
Cosmos Club.
Society of French Water Color Artists.
Bethune, Gaston, Paris.

900. A Parisian Woman.
910. Fort of Villefranche.
911. Belfry at Bruges.
912. Cathedral at Antwerp.
913. On the Escaut at Antwerp.
914. Beech at Blankenberge.
915. Lake Bourget, Savoy.
916. A Parisian Woman.
Bout de Monvel, Maurice, Paris.

917. A Fairy Tale.
918. Salome.
919. The Curate is going out.
920. A Timid Visitor.
Clairin, Georges, Paris.

922. At Seville.
923. Venice in the Last Century.
Claude, J. Max, Maisons-Laffitte.

924. Souvenir of Rotten Row, London
Claude, Georges, Paris.

925. Adoration of the Cross, Good Friday at Monte-Cassino, Italy.
926. A Neapolitan Song.

Courant, Maurice-Francois-Auguste, Poissy.

927. On the Strand.
928. The Joyous Bay.
929. The Fish Tank, Concarneau.

Detaillle, Edouard, Paris.

931. 1. The Adventurers.
932. 2. Gabrielle.
933. 3. Mlle. Baretta as Celia.
934. 4. Mme. Plessis as Clorinda.

Escalier, Nicolas, Paris.

935. A Farm at Loir et Cher; Starting for the Market. Learning how to Fish.
Gros, Lucien, Poissy.

936. The Quay, Honfleur.
937. The Bravi.
938. Horses Drinking.


939. At the Cafe.
Lemaire, Mme. Madeleine, Paris.

941. A Ball in 1890.
942. "Farewell."
Moreau, Adrien, Paris.

943. Grape Picker.
944. The Vow.
945. A Game of Chess.
946. Plunderers.
Penne, Olivier de Paris.

948. Griffons.
Pujol, Paul, Paris.

950. Pont de la Concorde.

Rivoire, Francois, Paris.

951. Autumn Flowers.
952. The Overturned Basket.

Rochegrosse, Georges, Paris.

953. The Poet.

954. Field Valley.
955. The Old Port of Toulon.

Tenre, Henri, Paris.

956. Reading.
957. The Secret.
958. Church of St. Remy, Rheims.
959. The Well.

Toudouze, Edouard, Paris.

961. The Rocker.

962. The Burgundy Gate, Moret.
963. Moret from the Right Bank of the Loing.
964. Cape Monaco, from the Heights Above.

966. In the Mountains, near Sion, Switzerland.
967. Garden of the Tuilleries.

Society of French Pastel Artists.

968. Twilight, Road of St. Medard-en-Jalles.
969. Vicinity of Paris, a Bastion.
970. Moonrise, Quarries of Saint Denis.
Blanche, Jacques-Emile, Paris

971. The Guest.
972. The Awakening of the Little Princess.

Cazin, Mme. Marie, Paris.

973. Summer.
Cheret, Jules, Paris.

974. Columbine.

Dubufe, Guillaume, fils, Paris.

975. Slumber.
Eliot, Maurice, Paris.

976. Sitting for a Portrait.

Helleu, Paris.

977. Portrait of Mlle. X.

978. Moonrise.
979. A Reader.


980. Evening at Vieux-Moulin.
La Touche, Saint-Cloud.

981. The Perfume of Flowers.

Montenard, Paris.

982. Alpine Regiment on the March in Provence.
983. The Pont de Gard, Provence.
GROUP 189.

Sculpture.

Baumbach, Max, Berlin.
1. Siesta.
2. Violin Player and His Love.
Baerwaldt, Rob., Berlin.
3. Emperor William I.
4. Emperor William I. (Loaned by the Royal Academy of Berlin.)
Begas, Prof. Reinhold, Berlin.
5. Bust of "Menzel." (Marble.)
6. Bust of "Moltke." (Marble.) (Loaned by the National Gallery of Berlin.)
Begas, Prof. Carl, Berlin.
7. Sisters. (Marble.)
8. Faun and the Infant Bacchus. (Marble.) (Loaned by the National Gallery of Berlin.)
Bergmeier, C. A., Steglitz-Berlin.
9. Table-service. (Bronze.)
Bernewitz, C., Berlin.
10. You Must Dance. (Bronze.)
11. Psyche. (Bronze.)
Bräuer, Peter, Berlin.
12. Spring. (Bronze.)
Brossman, Prof. Gustav, Dresden.
13. Fettered Psyche. (Marble.)
Brutt, Ad., Berlin.
14. Battle of Centaurs. (Marble-relief.)
15. "Eve." (Marble.) (Loaned by the National Gallery of Berlin.)
16. "Saved." (Bronze.)
17. "Phryne." (Bronze.)
18. "Bathing Girl." (Bronze.)
Calandrelli, Prof. A., Berlin.
19. Nymph. (Bronze.)
Dobbertin, O., Hamburg.
20. Resting Boy. (Marble.)
Dorn, Carl, Berlin.
21. Idealism. (Bronze.)
22. Materialism. (Bronze.)
23. Fountain Figure; Swan Group. (Bronze.)
Eberlein, Prof. G., Berlin.
24. Thorn-puller. (Marble.) (Loaned by the National Gallery of Berlin.)
Elster, G., Braunschweig.
25. Ave Maria. (Terra cotta.)
26. Saint John. (Terra cotta.)
Epler, Hein, Dresden-A.
27. Gleaner. (Marble.)
Heidepriem, T., Berlin.
28. Sleep. (Marble.)
29. In the Shooting Stand. (Zinc cast.)
30. As the Kennel of a Badger. (Zinc cast.)
31. A Fish Rarely to be Met With. (Bronze.)
32. In the Depth of the Sea. (Plaster.)
33. Moses Destroying the Tables of Law. (Oakwood.)
34. Hilgers, Prof. C., Berlin.
35. Christ Healing the Sick Ones. (Plaster-relief.)
36. Christ Healing the Daughter of Iaiurus. (Plaster-relief.)
37. Small Model of the Dusseldorf Warriors—Monument. (Bronze.)
Hirt, Prof. Joh., Munich.
38. Andromeda. (Marble.)
Hirsch, Ernst, Berlin.
39. Statuette; Man with Dogs. (Bronze.)
Höfle, Rud., Dresden-A.
40. The Ratcatcher of Hamelo. (Bronze.)
Hultzsch, Prof. Hermann, Dresden.
41. Echo. (Bronze.)
Hundrieser, Emil, Charlottenburg.
42. Peace. (Plaster.)
43. Labour. (Plaster.)
Geiger, Mrs. H., Berlin, Wilmersdorf.
44. Bust of the Madonna. (Marble.)
Glauffügel, Otto, at present at Rome.
45. Italian Fisher Boy. (Zinc cast.)
46. Italian Oyster Dealer. (Bronze.)
Gotz, T., Berlin, Schönberg.
47. Balancing Boy. (Bronze.)
48. Female Water Drawer. (Bronze.)
49. Boy with Hoop. (Zinc cast.)
Kahle, Miss Anna von, Berlin.
50. Sleeping Child. (Marble.)
Bacchus. (Majolica.)
Kiesewalter, H., Berlin.
51. Horse Statuette. (Bronze.)
Klein, Max, Berlin.
52. Lady's Head. (Marble.)
Klein, Max, Berlin.
53. Deathly Embrace—A Man Struggling With a Lion. (Bronze group.)
Krusse, Max, Berlin.
54. The Messenger From Marathon. (Bronze.)
55. Marble bust.
56. Portrait of Miss B.
Krusse, Bruno, Berlin.
57. Head of a Nymph. (Marble.)
58. Prince Bismarck. (Bronze.)
59. Field-Marshal von Moltke. (Bronze.)
Landsberg, Max, Berlin.
60. English Thoroughbred. (Bronze.)
61. English Thoroughbred. (Bronze.)
62. Cow from the Wilster-marsh. (Bronze.)
Lepcke, Ferd., Berlin.
63. Listener. (Marble.)
Lock, Michel, Berlin.
64. Listener. (Bronze.)
65. Spartacus. (Plaster.)
WORLD'S COLUMBIAN EXPOSITION.

GERMANY.

Manthe, A. M., Berlin.
106. Drinking Boy. (Bronze.)
107. Laughing Boy. (Marble.)
108. Boy and Cat. (Bronze.)
Uechtritz, Cunno von, Berlin.
109. Morning. (Bronze Chandeliers for
110. Evening. (Electric Lighting.
111. Two Wall Figures in Bronze for Elec-
112. Head of a Girl. (Marble.)
113. Unger, Max, Berlin.
114. Archer. (Bronze.)
115. Vordermeyer, M., Berlin.
Wenck, E., Berlin.
117. Amorous Faun. (Bronze.)
118. Female Juggler. (Bronze.)

GROUP 140.
Paintings in Oil.
Achenbach, Prof. Oswald, Dusseldorf.
119. Scene near Naples (Moonlight).
Adam, Franz, Munich.
120. The Battle of Orleans.
Adam, Julius, Munich.
121. High School.
Albers, J., Berlin.
122. "The Captain's Wife."
123. "A Confession on Hallig Oland."
124. "Alone."
Albrecht, C., Hamburg.
125. An Evening Song.
Andorff, Paul, Hanau.
126. A Village in the Spessart.
Andersen-Lundby, Anders, Munich.
127. Winter Evening.
Arnold, Prof. Herm., Weimar.
128. My Little Mother.
Arnz, Albert, Dusseldorf.
129. Still Life; Morass Birds.
Arp, Karl, Kiel.
130. A Bridge in Saalfeldt.
Asperger, Max, Weimar.
131. A Bridge at Berka.
Bachmann, Hans, Dusseldorf.
132. The Morning After the Wedding
(Switzerland).
Baisch, Prof. Herm., Karlsruhe.
133. Spring Day in Bavaria.
134. Sheep in the Sand Dunes.
Baur, Prof. Albert, Dusseldorf.
135. The Martyr's Daughter (scene from
the Christian prosecution under the
reign of Diocletian).
Bantzer, Carl N., Dresden, Strehlen.
136. Spring Day.
137. In the Garden.
139. On the Heights.
Becker, Prof. Carl, Berlin.
140. Venetian Doge Festivity. (Loaned by
National Gallery of Berlin.)
Becker, Carl, Berlin.
141. Vedette.
Becker-Gundahl, Munich.
142. Forsaken.
Behmer, Herm., Weimar.
143. Reconvalescent.
Behrend, Friedr., Karlsruhe.
144. Evening in Lithuania.
Bergmann, Jul., Karlsruhe.
145. Under the Willow Trees.
146. Returning Home.
Ciko's (Hungarian Shepherd),
Bernuth, E. von, Dusseldorf.
147. A Cañon.
Biedermann, Ernst, Karlsruhe.
148. Falling Leaves.
Biedermann-Arendts, Miss Hermine,
Freising, Munich.
149. The First Booty.
Blau, Miss Tina, Munich.
150. Autumn.
Yard in St. Veit near Vienna.
Block, J., Munich.
151. In the Twilight.
Blum, Oscar, Karlsruhe.
152. St. Joseph.
Bleume, Ed., Munich.
153. Candle Light.
Beckmann, Ch. Ludw., Karlsruhe.
154. The Village on Fire.
Boddin, G. von, Kl. Zschochwitz, near
Niederschletitz.
155. The Battle is Over.
Pandres Reconnoitering.
156. Bluhm, Oscar, Karlsruhe.
Bohdrt, Hans, Berlin.
Hamburg Pilotes.
158. Spectator.
Bom Bach, W., Berlin.
159. Tunisian Town.
Blom, F., Berlin.
160. Railroad Crossing.
Borchardt, F., Dresden.
161. Uncle Testator.
Bohme, Karl, Karlsruhe.
162. View from the Lighthouse at Skom-
vaer.
Berkemeier, Ludolf, Weimar.
163. After the Shower (Dutch Landscape).
Bracht, Prof. E., Berlin.
164. Mount Sinai.
Before the Walls of Jerusalem.
165. Braith, Prof. Anton, Munich.
166. A Fresh Drink.
167. The Pets of the Peasant's Wife. (Loaned
by the State of Bavaria.)
Brandt, Prof. T. V., Munich.
168. The Sudden Attack. (Loaned by the
State of Bavaria.)
Brandt, F., Rome.
169. Tivoli near Rome.
170. The Dome at Tivoli.
Brauseswetter, Prof. O.
171. Our Saviour.
Bredt, Ferd. Max, Munich.
172. Two Gazelles.
A Sudanese Girl.
174. Tug Horses.
Brutt, Ferdinand, Dusseldorf.
175. In the Picture Gallery.
Bunke, Franz, Weimar.
176. Brick Manufactory in Mecklenburg.
177. Before the Townlet.
178. Buttersack, Bernh., Munich
179. A Nice Day.
181. Brook with Alders.

Cramer, Miss Helene, Hamburg.
182. Clematis.

Cramer, Miss Molly, Hamburg.
183. Peaches.

Crola, Prof. Hugo, Dusseldorf.
184. Industrious Sisters.

185. High Flown Madness.

Dufregger, Prof. Franz v., Munich.
186. Sunday Quietness.

Dufregger, Prof. Alex., Munich.
187. Rokibär.

Dancing Begins.
Deiters, H., Dusseldorf.
188. At the Brook.
Delug, A., Munich.
189. In the Month of March.

Dettmann, L., Berlin.
190. Genesis iii. 

Dieffenbacher, Aug., Munich.
191. Heartrending Return.

Dieffenbacher, Th., Munich.
192. Dirks, Andreas, Weimar.

This in the Harbor.

Douchette, L., Berlin.

Duckler, Prof. Eugen, Dusseldorf.
194. Autumn Evening.

Duckler, Prof. Eugen, Dusseldorf.
195. Summer Evening.

Eberle, Ad., Munich.
196. Boarders.

Eckenbrecher, Th. von, Berlin.
197. Norwegian Waterfall.

Ecknaes, John, Munich.
198. Fishing in Norway.

Ehrentraut, Prof. J., Berlin.
199. A Fleeced One.

Eichfeld, Herm., Munich.
200. Morning in August.

Eschke, Prof. Herm., Berlin.
201. The Swedish Coast at Toreko.

Eschwege, E. von, Weimar.
202. Early Spring.

Esser, Theodor, Karlsruhe.
203. Landscape.

Fahrbach, C. L., Dusseldorf.
204. A Black Forest Mill.

Falat, J., Berlin.
205. Bear Hunting.

(Loaned by the National Gallery of
Berlin.)

Feldmann, Louis, Dusseldorf.
206. Incredulous Thomas.

Fial, G., Munich.
207. A Garden.

Flamm, Albert, Dusseldorf.
208. Italian Women.

Fleischer, Fritz, Weimar.
209. Old Wife and Dog.

Fink, Prof. Aug., Munich.
210. Devotion.

Flickel, Paul, Berlin.
211. Forest Solitude.

Fleckel, Paul, Berlin.
212. Evening.

Fleckel, Paul, Berlin.
213. Evening.

Fleckel, Paul, Berlin.
214. Evening.

Fleckel, Paul, Berlin.
215. Early Spring.
Fischer-Corlin, Berlin.

Love Teases, Love Pleases.

Frenzel, Oscar, Berlin.

Cattle in the Marshlands of the River Elbe.

Frey, Wilhelm, Munich.

Cattle at the Brook.

Freytag-Loringhoven, M. von, Weimar.

Entering the Forest.

Fricke, A., Berlin.

On the Island of Rugen.


The Death of Dante.

Friese, Richard, Berlin.

Lions in the Lagoon.

Gable, Prof. Alois, Munich.

Inoculators' Room. (Loaned by the State of Bavaria.)

Brauschken (Bavarian Inn).

Geertz, Julius, Dusseldorf.

Morning Prayer.

The Little Freebooter.

Edle von Geiger, Miss Fanny, Munich.

Landscape—Spring.

Gleichcn Russwurm, L. von, Weimar.

A Promenade.

Genzmer, B., Berlin.

The Village Playgrounds.

Grethe, Prof. Carlos, Karlsruhe.

The Spoiled Soup.

The Fisher's Darling.

At the Helm.

The Last Chance.

Grobe, German, Dusseldorf.

German Landscape.

Grützner, Prof. Ed., Munich.

Monks at Supper.

Gude, Prof. Hans, Berlin.

Breakers.

Gunther-Naumburg, Berlin, Charlottenburg.

The Street Unter-den-Linden in Berlin.

Gunther, Erwin, Dusseldorf.

Strand near Scheweningen.

Gysis, Prof. Nicol, Munich.

Carnival in Greece.


In the Vestry of St. Marco at Venice.

Hagen, Prof. Theodor, Weimar.

Cornfield.

Hamacher, Willy, Berlin.

Rocky Coast.

Hammer, Erich, Weimar.

Grandmother's Pet.

Harrach, Prof. F., Count von, Tiefhartmannsdorf, near Schonau.

Fallen Down from the Precipice. (Loaned by the National Gallery of Berlin.)

Harburger, Edm., Munich.

At the Spring.

Hasemann, Wilh., Gutach Amt Wolfach.

Heichert, Otto, Dusseldorf.

Theodor Körner After the Sudden Attack at Kien.

Heilmann, Maz, Reussendorf, near Waldenburg in Silesia.

Silesian Village Road in November.

Heimes, Heinr., Dusseldorf.

Sunset (North Sea).

Hellwig, Rudolph, Karlsruhe.

Northern Shores.

Ruins of the Old Hanseatic Town Wisby.

Henseler, Prof. E., Berlin.

The Harvest Repast.

Evening.


Twilight.

Herrmann, Hans, Berlin.

The Fishmart in Amsterdam.

Herrmann, Heinr., Dusseldorf.

Dortrecht (Holland).

Hertel, Prof. Alb., Berlin.

Dante in the Alps.

Herterich, Prof. Ludw., Munich.

Saint George.

Herzog, Lewis, Dusseldorf.

A Morning in October.

Heyle, Philipp H. G., Frankfort-on-the-Main.

Before the Dissection.

Heyser, F., Hurzburg.

Portrait of Professor Joachim.

Hildebrand, Prof. E., Berlin.

Queen Louise. (Loaned by the National Gallery of Berlin.)

Tullia.

Hirschler-Kunwald, Miss E., Weimar.

My Studio.

Hirt du Frénes, Munich.

Portrait. (Owned by Wm. Chase, Esq., New York.)

Head of a Girl.

Hochhaus, C., Berlin.

Navy-yard (Constructing H. M. S. Oldenburg).

Hoecker, Prof. Paul, Munich.

The Nun.

On Board H. M. S. Deutschland.

Hofer, Gottfr., Hamburg.

The Dolomites in the Tyrol.

Hoff, Karl, Karlsruhe.

Children from the Black Forest.

Hoffmann-Fallersleben, F., Berlin.

Landscape—Autumn Day.

Holmberg, Prof. Aug., Munich.

"Pensative."

"Genre."

Hölzel, Ad., Dachau, near Munich.

Domestic Devotion. (Loaned by the State of Bavaria.)

Hummel, Theod., Munich.

The Deathbed of the Mother.

Huisken, Herm, Karlsruhe.

My Pet Dog.

Hütten, Prof. Emil, Dusseldorf.

Billeting Troops.

Jacobides, Prof. Georg, Munich.

Afflictions.

Portrait.

Irmer, Carl, Dusseldorf.

Motive from the Island of Sylt.

Janssen, Prof. Peter, Dusseldorf.
287. Portrait of the late Inspector Holt-hausen. (Loaned by the government.)

Kalkreuth, Prof. L. Count von, Hock-richt, near Wansen, Silesia.

288. Portrait (Uncle Andres).

Hermuth, Mrs. Margarethe, Kallmorgen, Karlsruhe.

289. China Asters.

Kallmorgen, Prof. Fr., Karlsruhe.

290. Our Old Emperor.

291. Good Neighborhood.

292. Beginning of Spring.

293. Happy Childhood.

Kampmann, Gustav, Karlsruhe.

294. Falling Leaves.

295. The Amber Coast (Baltic).

Kauffmann, Hugo, Munich.

296. A Snuffer.

297. Girl's Head.

Kaulbach, Prof. Herm, Munich.

298. The Storyteller.

Kehr, Karl, Karlsruhe.

299. Evening.

Keller, Reutlingen, Paul Wilh., Munich.

300. Summer Landscape. (Loaned by the State of Bavaria.)

301. Summer.

Keller, Prof. Ferd., Karlsruhe.

302. Apotheosis. (Loaned by the National Gallery of Berlin.)

Kettel, O., Muhlbach, Karlsruhe.


Klein-Chevalier, Dusseldorf.

304. Inauguration of the Niederwald Mon-ument in the Presence of Emperor William I.

Kinsley, Nelson G., Karlsruhe.

305. Winter.

306. A Noble Sire.

Knabl, Karl, Munich.


308. At Dawn.

Knaus, Prof. L., Berlin.

309. Portrait of Munnern. (Loaned by the National Gallery of Berlin.)

310. Portrait of Hemholtz. (Loaned by the Nationed Gallery of Berlin.)

311. The Fight Behind the Fence.

Konig, H., Munich.

312. At the Rivulet.

313. Going Home. (Loaned by the State of Bavaria.)

Körner, Ernest, Berlin.


Koner, Prof. Max, Berlin.

315. Portrait of His Majesty, Emperor William II.

Kornbeck, Julius, Castle of Oberen-singen, near Mirtingen.

316. In the Village.

Köster, Alexander, Karlsruhe.

317. Sunday Morning.

Krombheuer, Carl, Munich.

318. A Lucky Man.

319. An Amusing Story.

Kröner, Prof. Christ, Dusseldorf.

320. The Troublesome Guest.

Kubierschky, Erich, Munich.

321. Spring Landscape near Munich.

Kune, L. Adam, Munich.

322. "Still life."

323. "Still life."

Kühl, Prof. Gotth., Munich.

324. Eine feste Burg ist unser Gott (a-sure stronghold is God). (German song.)

Kurz-Gallenstein, August Munich.

325. Sunday.

Langhammer, Arthur, Munich.

326. A Bite and a Sup. (Loaned by the State of Bavaria.)

Lasch, Herm., Dusseldorf.

327. Evening.

Laupheimer, Anton, Munich.

328. St. Lukes.

Lehmann, Wilhelm, Karlsruhe.

329. Spring.

Lenbach, Prof. von, Munich.


331. Portrait of Pope Leo. (Both loaned by the State of Bavaria.)

Leistikow, Walther, Berlin.

332. Brickworks.

333. Ave Maria.

334. The Sick Bed.

Lessing, H., Berlin.

335. Ley, Miss Sophie, Karlsruhe.

336. Flowers.

Liebmann, Max, Berlin.

337. The Flax Barn.

338. Liesegang, H., Dusseldorf.

339. Mills at Darrrecht.

340. Lindenschmidt, Prof. W., Munich.

341. Deliberation.

342. Ludwig, Prof. Carl, Berlin.

343. Spring in the Genitz Valley in the Tirol.

344. Taubergiend in Franconia.

345. North German Landscape. (Loaned by the National Gallery of Berlin.)

346. Marx, Gust, Dusseldorf.

347. A Party.

348. Massau, Edm., Dusseldorf.

349. A Spring Day.

350. The Standard Bearer.

351. The Convent Garden.

352. Motive from Old Weimar.

353. Motive from Old Weimar.

354. Metzener, Alfred, Dusseldorf.

355. Tyrolese Landscape.

356. The Convent Garden.

357. Motive from Old Weimar.

358. Motive from Old Weimar.

359. A Matinee.


361. A Menagerie. (Loaned by the National Gallery of Berlin.)
GERMANY.

360. Cows in the Alps.
Meyer, Prof. Hans, Berlin.

361. Evening.
Max, Prof. Gabriel, Munich.

362. Katharina Emerich. (Loan by the State of Bavaria.)

363. Visions.
Munsch, Josef, Munich.

364. The Conference.
Muhlig, Hugo, Dusseldorf.

Muller, Carl W., Dresden-A.

366. German Forest.
Muller, P. P., Munich.

367. Beachwood in Autumn.

368. A Mele. (Loan by the State of Bavaria.)
Muller, Kurzwelly, D. K., Berlin.

369. Winter Landscape.

370. After the Thunderstorm.

371. Breakers (Swedish Coast).

372. Landscape from the Harz (Valley of the Ocker).
Neff, Friedr., Karlsruhe.

373. Vanity Fair.


375. The Little Tyrant.
Normann, A., Berlin.

376. Summer Night (Norway).
Naroford (Norway).

377. Oenicke, R., Birne.

378. Palmwood in Paraguay.
Oehmichen, Hugo, Dusseldorf.

379. The Sisters.
380. Alone.

381. Olde, Hans, Seekamp.

382. Before Sunrise.
Oppler, Ernst, Munich.

383. Revery. (Loan by H. R. H. the Prime Regent Lintpold of Bavaria.)
Palmier, Charles, Munich.

384. Autumn.
Pappolitz, Georg, Munich.

385. Salome, the Daughter of Herodias.
Parlaghy, Mrs. Vinma, Berlin.

386. Portrait of Kossuth.
Petersen, Angeln, Dusseldorf.

387. At Sunset.

388. On the Beach (Holland).
Petersen, Flensburg, Dusseldorf.

389. Winter Evening.
Pietschmann, Max, Dresden N.

390. Polyphemus Fishing.
Plass, Ernst, Munich.

391. North Sea Strand.

392. Fishermen on the Baltic.
Pohle, Herm., Dusseldorf.

393. Castle in the Parks of Benrath.
Max, Possin, Rud, Charlottenburg, Berlin.

394. Devotion.
Pottsch, Paul, Dresden-A.

395. Revery.

396. In the Sunshine.
Rasch, Otto, Weimar.

397. Council Chamber at Luneburg.
Rasmussen, Georg, Ant., Dusseldorf.

398. The Sognefjord.
Raupp, Prof. Karl, Munich.

399. Peace. (Loan by the National Gallery of Berlin.)
Ravenstein, Paul von, Karlsruhe.

400. Umbrella Menders in Tivoli.

401. Serenade on the Canal Grande at Venice.
Riess, Paul, Weimar.

402. Norwegian Coast.

403. After the Storm (Moonlight).
Ritter, Wilh., G., Dresden-A.

404. Spring.
Ritter, Prof. Caspar, Karlsruhe.

405. Consolation by the Song.

406. After Bathing.
Rocholl The, Dusseldorf.


408. Avant-garde Fighting.
Rochling, Carl, Berlin.

Rodeck, Carl, Hamburg.

410. Evening in the Woods.

411. The Holy Family.
Roeber, Fritz, Dusseldorf.

412. King Wenzel Raging. (King Wenzel went on horseback one day through the street of Prague, accompanied by a hangman. Everybody whom he met and who displeased him was executed.)
Rohlf, Christian, Weimar.

413. The Sawmill.
Rommann, Max, Karlsruhe.

414. Street near Tivoli.
Rosen, Jan, Munich.

415. The Battle of Stoezek, 1831.
Rouband, Prof. Franz, Munich.

416. Hay Time.

417. Prayer Before the Battle.
Rummeisbacher, J., Berlin.

418. The Tschapit Riviet in the Tyrol.
Rusch, Dietrich, Weimar.

419. Interior.

420. North German Kitchen.

421. Landscape.
Ruths, Val., Hamburg.

422. Twilight. (Loan by the National Gallery of Berlin.)
Saltzmann, Prof. Carl, Neubabelsburg.

423. Emperor William II Whaling on Board the Duncan Gray.

424. "In Vain."
Schaefler, M., Berlin.

425. Please Come.
Schau, Prof. F., Berlin.

426. "Elegy."

427. Scherres, Prof. C., Berlin.
"Inundation." (Loan by the National Gallery of Berlin.)
Scherres, Alfred, Karlsruhe.

428. Winter.

429. Schenfis, F. von, Dusseldorf.
The Parks of Versailles.

430. Schenker, Jauges, Dresden-A.
At the River Emis.

431. Portrait of Teller. (Loan by the National Gallery of Berlin.)
Scheunberg, Prof. J., Berlin.

432. "The Blind Ones in the Church."
THE OFFICIAL DIRECTORY

DEPARTMENT K.—FINE ARTS.

433. "Morning Song."
Schleich, H., Berlin.
434. Braselet Bay (South Wales).
Schleich, Robert, Munich.
435. The October Festivity in Munich.
436. On the Highroad.
Schickhardt, Karl, Stuttgart.
437. In Swabia.
438. Autumn.
439. Old Bridge in Italy.
Schmidt, Hans W., Weimar.
Schmidt, Prof. Max, Köigsberg, i-Pr.
441. Landscape from the River Spree.
(Loaned by the National Gallery of Berlin.)
Schmitgen, Georg, Berlin.
442. Evening.
443. "S. S. Paris."
444. "Narrow Escape.
Schnittzer, Fritz, Dusseldorf.
445. Sheep Bathing.
Schröder, Norbert, Frankfort-on-the-Main.
446. German Peasants' Vehicle.
Schröter, Wilh., Karlsruhe.
447. Summer Landscape.
Schuch, Prof. Werner, Kliecken near Coswig.
448. Emperor William II.
Parade.
Schulze-Naumburg, Paul, Karlsruhe.
449. Resignation.
Schütze, Carl, Dusseldorf.
450. Heath Landscape.
Schuler, Max, Frankfort-on-the-Main.
Schür, Theodor, Dusseldorf.
452. Winter Landscape (Moonlight).
Schivabe, E., Dusseldorf.
453. Cemetery.
Schweitzer, Ad., Dusseldorf.
454. Wintry Day in Germany.
Seel, Ad., Dusseldorf.
455. Arabian Yard in Cairo. (Loaned by the National Gallery of Berlin.)
Seiler, Prof. Carl, Munich.
456. The Sailor of Count Bröhl.
Leitz, Prof. Ant., Munich.
Seyppel, C. M., Dusseldorf.
458. A Lumber-chamber of the Convent.
459. In the Streets.
Simm, Franz, Munich.
460. The Pride of the Family.
463. Bitter Words.
464. Diver Words.
466. Children in the Nursery Garden.
Staats, Miss Gertrud, Breslau.
467. Before the Gate.
Stabli, Adolf, Munich.
468. Landscape from Upper Bavaria.
Stadler, Miss Toni, Chaim near Nymphenburg Munich.
469. Landscape.
Stahl, Fr., Berlin.
470. Cemetery in Winter. (Like the leaves in the woods so are generations of mankind—one grows being.)
Stahlischmidt, Max, Weimar.
471. The Mill-Garden.
Steinmetz, Fritz, Munich.
472. A "Solo."
474. Portrait of the Artist C.
Stockmeyer, Karl, Malsch Amt Ettingen.
475. And St. Peter Went Away "And Wep Bitterly."
Stvecker, Miss Constanze, Munich.
476. My Sick Little Cat.
Stromeyer, Miss Helene, Karlsruhe.
477. A Wreath of Roses.
Strützel, Otto, Munich.
478. On the Heath.
479. A Sunny Day in March.
Stück, Franz, Munich.
480. Pieta.
481. Storm, F., Berlin.
482. Wreck Waiting for a Pilot.
Sturtzhouf, Franz, Weimar.
483. The Cooper's Workshop.
485. The Valley of the Engadin.
486. Speyer, Christian, Munich.
487. The Parliamentair.
488. Spielter, C., Charlottenburg.
489. Shocking.
490. Spring, Alfons, Munich.
491. Fishermand's Home.
492. The New Hymn.
493. The First Spring.
494. At the Spring.
495. Spring.
496. Thierbach, Rich., Stolberg.
497. Landscape (Evening).
499. Psyche.
500. Truebner, Wilh., Munich.
501. Potato Field.
502. The Announcement to the Shepherds.
503. Christmas Evening.
GERMANY.

Ulrich, F., Berlin.
505. Wild Boars Challenging.
506. At the Sick Bed. (Loaned by the National Gallery of Berlin.)

Vautier, Prof. Benjamin, Dusseldorf.
507. Out Guard.
508. Courier.
509. Old Ferry near Stratsund.
511. Sheep Walking Home.
512. Autumn.
513. The Shepherd's Rest.
514. The Kyll Valley near Geroldstein.
515. Maria.
517. Evening at the Lake.
518. Evening (An Idyll).
519. Wansleben, Arthur, Dusseldorf.
520. Weichberger, Eduard, Weimar.
521. Summer Evening.
522. Forest-Pond.
524. Mount Ortler.
525. Wenglein, Prof. Josef, Munich.
526. Chalkstone Gatherers in the River Tzar. (Loaned by he State of Bavaria.)

Wentscher, J., Berlin.
527. Baltic Coast (Rügen).
528. Surf on the Baltic Coast.
529. Werner, Prof. A. von, Berlin.
530. The Congress of Berlin.
531. Werner, Prof. Fritz, Berlin.
532. Female Sutler.
533. Wessel, Ludwig, Dusseldorf.
534. Inquiring Prebendarist.
535. Wieland, Manuel, Karlsruhe.
536. Italian Coast Scenery.
537. Summer Day at the Riviera.
538. Willroider, Prof. Ludw., Munich.
539. Landscape from Upper Italy.
541. Portrait of His Majesty, Emperor William II.
542. Wodrinowski, Vincenz v., Munich.
543. Model Market in the Academy.
544. Wofnfer, Prof. Josef, Munich.
546. Wywiorowski, Michel G., Munich.
547. Black-cock Hunting in Lithuania.
548. Zimmermann, Prof. Ernst, Munich.
549. The Egg of Columbus.
550. Foff, Alfred, Munich.
551. Near Genoa.
552. Tügel, Prof. Heinr., Munich.
553. Awaiting.
554. Hard Labour.

GROUP 141.

Paintings in Water Colors.

Arnold, Karl, Weimar.
540. Siesta.
541. A Poor One and a Rich One.

Bartels, Prof. Hans von, Munich.
543. A Wave.
544. Moonlight Night at the French Coast.
545. Portrait of the Artist Sixt Thou.
546. Bergmann, Tui., Karlsruhe.
547. A Czikos.
549. Winter in the Riviera.
551. Fruitshop at Venice.
552. Crosspassage at Berchtesgaden.
553. Campiello San Barbara.
554. Chouant, Th., Dresden-A.
555. Verona.
556. Trento.
557. Venice.
558. Torietto.
559. Dammeier, Rud., Munich.
560. Tyrolean Peasants During a Mass.
562. At the Mill-brook.
563. Village in Westalicia.
564. Doepler, Professor, Berlin.
565. "The Beginning of the End." (Loaned by the National Gallery of Berlin.)
566. Döring, Willy, Charlottenburg.
567. Portrait.
568. Eckenbrecher, Th. v.
569. Street in Cairo.
570. On the Bosphorus.
571. Eitner, Ernst, Hamburg.
572. Afternoon Sun.
573. Falat, T., Berlin.
574. Italian Triffer.
575. Fehr, Conrad, Berlin.
576. Pious Monk.
578. Orchard.
579. Autumn Landscape.
580. Haber, Rudolf von, Dresden.
581. Still Life.
582. Hein, Franz, Karlsruhe.
583. "Spring."
584. "Sweet-tooth."
586. Dutch Harbor Scenery. (Loaned by the National Gallery of Berlin.)
587. The "Lindengracht" at Amsterdam.
588. The "Linge" at Amsterdam.
589. Hertel, Prof. Albert, Berlin.
590. Rapollo.
591. Gastien Nassfeld.
592. Evening on the Nassfeld near Gastien.
593. View from Monte Pincio.
594. Mentone and the Campo Santo.
595. Harbor of Mentone.
596. Herzog, Lewis, Dusseldorf.
597. On the Rhine (Lowland).
598. Herwegen, V. M., Munich.
599. The Temple of Antony.
600. View from Mount Palatin.
601. Kalnromgen, Prof. Friedr., Karlsruhe.
602. Grandfather's Pets.
Klimsch, Prof. Eugen, Frankfort-on-the-Main.
589. A Fan.
Kubierschky, Erich, Munich.
590. Spring (River Rhine).
Leistikow, W., Berlin.
591. Autumn (River Rhine).
592. Twilight.
593. A Wintry Day in the Mountains.
594. Autumn.
595. Summer.
Looschen, Hans, Berlin.
596. A Tavern in the Wood.
597. The Titus-arch at Rome.
598. Mount Palatine at Rome.
599. Cassel St. Angelo.
600. St. Peter at Rome.
Mnnchen, Adolf, Halle a-S.
601. In the Cloister.
602. Potato Dumplings.
Menzel, Prof. Adolf, Berlin.
603. A Squirrel.
604. Tree Trunk with Bird.
605. A Cacato.
606. The Blue Aras.
608. Designs for a Table Set for their R.H. the Crown Prince and Crown Princess. (Loaned by the National Gallery of Berlin.)
Normann, A., Berlin.
609. Evening (Norwegian Coast).
Pohle, Herm. Emil, Dusseldorf.
610. Four in Hand Eloping.
Reinecke, René, Munich.
611. In the Waiting-room (Central Station, Munich).
Rogge, Prof. Theod., Weimar.
612. Portugesean Coast.
Schne, H., Berlin.
613. Summer Morning.
Seliger, M., Berlin.
614. Parrots.
615. Elfs and Night-fires.
Skarbina, Prof. Franz, Berlin.
616. Christmas Fair.
617. Conversation. (Loaned by the National Gallery of Berlin.)
Stichart, Alexander, Dresden-Strehlen.
618. Apparitions.
Teschendorf, Prof. E., Berlin.
619. Old Peasant from Meran.
Volckers, Hans, Berlin.
620. Straits of Gibraltar.
Weichberger, Eduard, Weimar.
621. Village Garden in May.
Woltze, Prof. Berth., Weimar.
622. A Cotquean.

**GROUP 148.**

**Engravings and Etchings, Prints.**

Barenfanger, Max, Munich.
Behmer, Herm., Weimar.
625. Portrait of the poet Gust Kastruppe.
Berlepasch, Hans Ed von, Munich.
626. Indian Ink Drawings.

Böttcher, F., Steglitz, near Berlin.
627. The Ascension. (After von Gebhardt.)
Burger, Johann, Munich.
628. Aurora. (After Guido Reni.)
Eilers, Prof. G., Berlin.
629. (After Rubens.)
630. Portrait of Joachim.
631. Portrait of Menzel.
Erdmann, Mor., Munich.
632. Maderno on Lake Garda.
633. Near Bozen (Moonlight).
634. Near Berchtesgaden.
635. Evening in Westphalia.
636. The Castle “Em.”
637. Six Drawings in Indian Ink.
Fichard, Max von, Baden Baden.
638. Three Etchings.
Heim, Heinz, Darmstadt.
639. A Series of Studies from Life.
Fert, Max, Berlin.
640. Columbus Scouted by the Council of Salamanca.
Jahnke, Karl, Munich.
641. The Death of “Renard.”
Koepping, Prof. C., Berlin.
642. Picture of an Old Man. (After Rembrandt.)
643. Summer Idyl.
Kohnert, H., Berlin.
644. Autumn Evening.
645. Spring Morning.
Krauskopf, Prof. Wilh., Karlsruhe.
646. Portrait.
647. Landscape.
649. Landscape.
Kruger, A., Berlin.
650. Etchings After Ancient Masters.
Meyer, Prof. Hans, Berlin.
651. Copper Engraving (War).
652. Etchings (The Dance of Death).
Meyer-Basel, Carl Theod., Munich.
653. Original Etchings.
Oberländer, A., Munich.
654. Two Frames With Pencil Drawings.
Platow, Johannes, Berlin.
655. Pains Forgotten. (After Galloit.)
Art Association of the Rhinelands and Westphalia, Dusseldorf.
656. After the Struggle.
657. A Saloon—Tyrolian.
658. Sketch From the Ertf.
659. A Service of Love.
660. The Sharpers.
661. With the Lawyer.
662. After the Funeral.
Raab, Miss Doris, Munich.
663. Portrait After Rembrandt.
Etcher Association, Weimar.
664. Fourteen Etchings.
665. Six Etchings.
Ritter, Horenz, Nurnberg.
666. St. Laurence Church at Nurnberg.
Schultheiss, Albrecht, Munich.
667. The Tributary Penny. (After Titian.)
Seitz, Prof. Otto, Munich.
668. Nine Pencil Drawings.
Schrack, H., Berlin-Wilmersdorf.
669. The Village Destinies.
Stuck, Franz, Munich.
670. Fame.


GREAT BRITAIN.

GROUP 139.

Sculpture.

Allen, Charles J., London. 820
1. Repulsed.
3. Endymion.
4. Brown, Miss B. A. M., Beckenham. 820
Bust of Henry Irving as "Hamlet."
7. Girl Tying on Her Sandals. 820
9. The First Reflection. 820
10. Fehr, H. C., London.
11. Morning. 820
13. Statue of Henry Irving as "Hamlet."
14. Right Hon. W. E. Gladstone. 820
15. General Gordon on Camel. 820
17. Caprice.
20. Arms.
22. Sleep. 820
24. Morphus.
25. Study of a Female Head. 820
27. The Marquis of Salisbury.
29. Mrs. Mary Anderson Navarro.
31. Kiss of Dawn. 820
32. Bronze Medallion. 820
34. Needless Alarm.
35. The Sluggard. 820
37. Tragedy.
38. Comedy.
39. La Source. 820
40. Montalba, Miss Henriettas Venice,
41. Italy.
42. Boy Catching a Crab. 820
43. Montford, Horace, London. 820
44. Threatened Reprisals.
45. The Birth of Venus. 820
47. Bust of a Child.
48. A Ruffian.
49. Palmer, Miss Ada M., Chigwell.
50. The Pied Piper of Hamelin. 820
52. Dionysus.
53. Giotti. 820
54. Rhodes, Roland, Newcastle.
55. Egyptian Harpist.
56. Youth's First Recognition of Love. 820
58. Tiger.
59. Lioness.
61. The Mower.
62. Teucer.
63. Edward I.
64. Putting the Stone. 820
66. The Right Hon. W. E. Gladstone. 820
68. Clytie.
69. Woolner, Thomas, R. A., (the late).
70. Bust of Lord Tennyson.
71. Bust of Carlyle.
73. Bust of Right Hon. W. E. Gladstone.
74. Medallion Portrait of Lord Tennyson.

GROUP 140.

Paintings in Oil.

Allen, Robert W., R. W. S., London. 820
54. Lowlands of Holland.
55. Pilgrims Resting, India.
56. Alma Tadema, Miss Anna, London.
57. A Portrait.
59. A Dedication to Bacchus.
60. An Audience at Agrippa's.
61. The Sculpture Gallery.
63. Battledore and Shuttlecock.
64. Fireside Fancies.
65. Always Welcome.
66. Archer, James, R. S. A., London.
67. St. Agnes, one of the Early Christian Martyrs.
69. After an Entomological Sale.
70. Faith.
72. A Fountain.
73. A Music-piece.
75. An English Wood.
77. The Wooden Walls of Queen Victoria. 820
78. Portraits of the last of England's wooden bulwarks, lying off Portsmouth dockyard, about 1840. The "Britannia," of 120 guns, on the right, was flagship of the port; the two-decker being the "London," of 92 guns, whilst the central three-decker, drying her sails, is the "Queen," of 110 guns; and on the extreme left lies the fast-sailing frigate, "Aethusa."
80. "Lieder ohne Worte."
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<td>“Hush.”</td>
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<td>Barnes, Robert, A. R. W. S.</td>
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114. Midnight Ride of Herne the Hunter and His Band in Windsor Forest.

115. Portrait of Wm. Sheppard Hoare, Esq.

116. Portrait of G. Trenchard Cox, Esq.

117. In Memory Of.

118. Left in Charge.

119. A Frosty Morning.

120. Jack at Home.

121. The Royal Jubilee Procession Passing Through Trafalgar Square.

122. Incident in the Charge of the Light Brigade.

123. The Last Survivor of Trafalgar.

124. The Favourite.

125. Early to Bed.

126. The Sick Child.

127. Waifs and Strays.

128. Playmates.

129. Ploughboy.

130. Brown-eyes.

131. Women of the Field.

132. The Breakfast Table.

133. Ploughing.


135. Jack the Refugee from Russia.

136. Ploughing.

137. Ripening Sunbeams.


139. The Death of Cleopatra.

140. Corbet, Mrs. M. Ridley, London.

141. On the Coast near Pisa.


143. Peace.


145. “Now Came Still Evening On.”

146. A Glimpse of Future Seas.

147. The Passing of Arthur.

148. The Redemption of Tannhauser.

149. The Wandering Minstrel.

150. An Angry Dawn.

151. The Arms of Peace.

152. Ellis, Edwin, London.

153. Full Summer, Flambro'.
GREAT BRITAIN.

- Graham, T., London.
- The Last Boat.
- An Irish Harvest Field; Peasants Loading Corn.
- Christ and The Magdalen.
- Portrait Miss W.
- Fire Fancies.
- Gyffin Old Mill.
- Hall, Fred., Penzance.
- Adversity.
- The Result of High Living.
- Halswelle, Keeley (the late).
- A Breezy Common.
- Hare, St. George, London.
- The Victory of Faith.
- Reflections.
- Hargitt, Edward, R. I., Basingstoke.
- The Isle of Skye from the Mainland, near Plockton.
- Trafalgar Square.
- Hard a Port.
- Saved.
- Hayes, Claude, Addlestone.
- Across a Surrey Common.
- Haynes-Williams, J., Southampton.
- Gallery of Francis I, Palace of Fontainebleau.
- Sandbanks.
- Herkomer, Prof. H., R. A., Bushey.
- The Last Muster.
- Miss Katharine Grant.
- Entranced.
- “In some diviner mood of self-oblivion solitude.”
- Herkomer, Herman G., London.
- Portrait of Professor Hubert Herkomer, R. A.
- David Bishops in “La Bosche.”
- Hitchens, A., London.
- Fisherwomen Awaiting the Boats, Holland.
- Aspasia.
- Street of Tombs, Pompeii.
- Holl, Frank, R. A. (the late).
- Portrait of John Tenniel.
- Samuel Cousins, R. A.
- The Earl Spencer, K. G.
- Portrait of the late J. S. Morgan.
- Portrait of Major-General Sir Henry Rawlinson, Bart., G. C. B., F. R. S.
- Holloway, C. E., London.
- The Old Town of Rye.
- Wreckage from the Fruiter.
- “Little to Earn and Many to Keep.”
- “Springtime, The Only Pretty Ring-Time.”
- Hide and Seek.
- Finishing Touches.

- Emslie, A. E., London.
- Saving the Shipwrecked.
- Etherington, Miss L., London.
- A Norfolk Dyke.
- Fabey, Edward H., R. I., London.
- Distant View of Florence, Looking up the Arno.
- The Nether Fool, a Nibble.
- Autumn.
- Farquharson, Joseph, London.
- Looking West.
- The Temple of Karnak.
- Farquharson, David, London.
- After the Storm, Glenlyon.
- Morning on the Common.
- A Summer Night.
- The Card Players.
- A Midday Rest.
- Fletcher, Morley, London.
- Shadow of Death.
- Fletcher, Blandford, Enfield.
- Evicted.
- Forbes, Mrs. Stanhope, London.
- The Witch.
- Forging the Anchor.
- Soldiers and Sailors.
- The Place for Wealth (a series of five pictures):
- The Spider and the Flys.
- The Spider at Home.
- Victims.
- Judgment.
- Retribution.
- Fulleylove, John, R. I., London.
- A Royal Palace.
- Fusee, Charles W., London.
- Lady in Gray.
- Lady in Brown Riding Habit.
- Glazebrook, Hugh de T., London.
- C’est l’Empereur.
- Napoleon I, Finding a Sentry Asleep on Duty.
- Portrait.
- Goodall, Frederick, R. A., London.
- By the Sea of Galilee.
- The Palm Offering.
- Goodall, T. F., Dulwich.
- The Last of the Ebb; Great Yarmouth from Breydon Water.
- When the Sun Sets and the Moon Rises.
- Gotch, T. C., London.
- My Crown and Sceptre.
- Gow, A. C., R. A., London.
- Queen Mary’s Farewell to Scotland.
- Grace, A. F., Steyning.
- Working Late in Valley of the Arun.
- The Valley of the Cuckmere.
- Grace, James E., Godalming.
- An Isle of Wight Pastoral.
- A Surrey Pond.
- Caledonia Stern and Wild.
- The Hamlet on the Cliff—a Rocky Coast.
Horsley, Walter C., London.
232. The Captive.
233. Fortune Teller—Cairo.
235. From Peak to Peak in Cloudland.
237. The Island Harvest.
242. “Mists Hung Wide O’er Moor and Fell.”
245. Summer.
247. Early Primrose, Herald of Spring.
248. Jenkins, Miss Blanche, London.
249. A Water Nymph.
251. The Slopes of Ben Nevis.
253. A County Boundary.
255. Consolatium Afflictorum.
257. Lorelai.
258. Jopling-Rowe, Mrs. Louise, London.
259. “Dear Lady Disdain.”
260. Salome.
262. Lady Daffodill.
263. Danaidas.
265. Perseus.
266. Kennington, T. B., London.
267. The Curse of the Family.
268. The Fair Harpist.
269. King, Edward, Petersfield.
270. A Folio.
272. Autumn Wooring.
273. The Lass That Loved a Sailor.
274. A Gray Day in July.
276. A Turnip Field.
278. Sunday Morning, Hadley Church.
281. The Approach.
282. Mooraine on Hoxsey Mere.
283. La Thangue, L. H., Bosham.
284. Leaving Home.
286. Lavery, John, Glasgow.
287. Katherine and Esther, Daughters of Lord McLaren.
288. An Esquerrienne.
289. An Afflictorum.
290. The Hop Garden.
292. Conway Bay and the Carnarvonshire Coast.
293. When Sun is Set.
295. Undine.
296. The Reaper and the Flowers (Long-Tippen)." 
298. Hercules Wrestling with Death for the Body of Alcestes.
299. Garden of the Hesperides.
300. Perseus and Andromeda.
301. Portrait of Captain Burton.
303. The Secret.
304. How Lisa Loved the King, Boccaccio.
305. Lemon, Arthur, Betchworth.
306. All Among the Barley.
308. Hen and Chickens.
309. “Home, Sweet Home.”
310. The Monks of Abingdon.
312. A Winter Sunset.
313. Moonlight.
314. Linnell, John (the late).
315. Storm at Harvest.
316. Linton, Sir James D., P. R. I., London.
317. Victorious.
318. The Benediction.
320. The Swineherd.
321. Portrait of John Polson, Esq.
322. Logsdail, Wm., London.
323. Ninth of November.
324. Sunday in the City.
325. Venice from the Public Garden.
326. Flower Gathering, South of France.
328. A Welsh Girl.
329. Rose Bradwardine, from Sir Walter Scott’s “Waverly.”
331. A Child’s Thank-offering.
332. Pot-pourri.
333. Loudan, Mouat, London.
334. Fish Market, Cornwall.
337. Louis XI.
338. Lucas, Mrs. Seymour, London.
339. Henry VI.
341. A Scotch River.
343. “Rocked in the Cradle of the Deep.”
344. Return from Lance Fishing.
345. Moorland.
347. Moat.
348. Macbeth, Robert W., A. R. A.
349. Stag Hunting in a Sea Fog.
350. Scene, Fish Farm.
353. Lewis Walters, Esq., a Portrait.
355. In the Reign of Terror.
356. The Mistletoe Bough.
357. Lawson, Walter, Liverpool.
358. Fruit Harvest-time in an Orange Garden, Capri, Italy.
360. “Fairy of the Glen.”
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The Harvest Moon.

Return from Ploughing.

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Caliban and Ariel.

Machlachan, T. Hope, London.

Mists in Early Autumn.

A Wind on the Hill.

Menpes, Mortimer, London.

The Old Arm Chair.

Millet, F. D., Worcestershire.

How the Gossip Grew.

Montalba, Miss Clara, R. W. S., Venice.

A Thames Barge Off Chelsea.

Moore, Albert, London.

A Reverie.


Storm Brewing.

St. Alban's Race.

Sunset after a Storm.

Morgan, Fred, London.

The Favoured Swain.

Morriss, P. R., A. R. A., London.

Sons of the Brave.

Fête Dieu, Dieppe, Normandy.

Edward I Demanding the Oath of Allegiance to the First Prince of Wales.

Meschesel, Felix, London.

Reciter in a Arab Café, Cairo.

Mottram, C. S., London.

A Winter Sea on the Yorkshire Coast (Morning).

Moynau, R. T., R. H. A., Dublin.

Military Manoeuvres.


The River Road.

A Mangold Field.

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Nicol, J. Watson, London.

"The good old rule, the simple plan, That they should take who have the power, And they should keep who can."

Noble, Robert, Prestonkirk.

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Normand, Ernest, London.

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North, J. W., R. W. S., Taunton.

"Seest how fresh my flowres be spread, In lily-white and crimson-red."

Olivier, Herbert, London.

Portrait of the Venerable Archdeacon Farrar.


A Portrait Group.

Osborn, Miss E. M., London.

Summer Shroud.

"When nature's dying face is veiled."

Osborne, Walter, R. H. A., Dublin.

The Ferry.


Portrait of T. S. Cooper, Esq., R. A.

Portrait of Sir Donald Smith, K.C.M.G.


"Victory!" The Prize Crew Taking Possession.

Palin, W. M., Milford.

Parke, John, R. W. S., London.

Cockle Gatherers.

Parsons, Alfred, R. I., London.

In a Cider Country.

The Flowers Appear on the Earth.

"The Voice of the Turtle is Heard in the Grove."

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When Daylight Dies.

Misty Morn.

The Night Ferry.

Pash, Miss Florence, London.

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Peppercorn, A. N., Leatherhead.

The Cornfield.

A Surrey Village.

Perugini, Mrs. Kate, London.

Tomboy.

Happily and Careless.

Perugini, C. E., London.

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A Summer Shower.

Clare.

Pettie, John, R. A. (the late), London.

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Silvia.

Monmouth Pleading for His Life Before James II.

Bonnie Prince Charlie.


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An Old World Home.

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Greek Exiles.


Under the Sea Wall.

On the Terrace.

Didumene.

White Roses.


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509. Wright, Miss E., London. Portrait of Mrs. Wirgman.
512. Wright, Miss E., London. The German Emperor and Prince of Wales inspecting the White Star Steamer "Teutonic" at Spithead, August 4, 1889.
513. Wright, Miss E., London. Orient Liner "Ormuz" off the Eddystone.
514. Wright, Miss E., London. The Port of London.
515. Wright, Miss E., London. The Brimming River.
516. Wright, Miss E., London. The Mighty Fallen.

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631. Piazza Communale Nebbiolo, Lago di Como.
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633. Her Favorite Doll.
634. Shelling Peas.
635. Kilchurn Castle, Loch Awe.
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637. Bright Morning After a Breeze.
638. Scheveningen; Waiting for the Shrimp Boats.
639. St. Mark's, Venice.
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642. Hayfield.
643. A Winter Morning.
644. A Winter Sunset, Ben Nevis.
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648. Courtyard of The White Hart Inn (now destroyed).
649. Interior of Barnard's Inn, Holborn (now dismantled).
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651. Cardross Moss, Perthshire.
652. Rough Sea off the Isle of Arran.
653. The Village Rendezvous.
654. Bodenheim Church.
655. Somersetshire Hills.
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657. A Summer Day, Loch Etive, Argyllshire, N. B.
658. Amalfi, South Italy.
659. Entrance to The Ducal Palace, Venice.
660. Pilsbury, Wilmot, Taunton.
662. A Duckpool.
663. A Farmstead.
665. In a Garden.
666. Nausicaa.
667. Eros.
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669. Rainey, W., Chichester.
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671. The City Wall.
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GREAT BRITAIN.

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677. Carting Faggots, Sussex.
679. Harvest Home.
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684. Severn, Arthur, R. I., Herne Hill.
685. Florence, from San Miniato.
686. Waves Breaking, near Kilkee, West Coast of Ireland.
688. The Velvet Hat.
691. A Corner of the Studio.
692. "Owl woman in our hours of ease, Uncertain, coy and hard to please."
693. Smythe, Lionel P., London.
694. The Field of the Cloth of Gold.
695. Summer Holidays.
696. Squire, Miss Alice, R. I., London.
697. Springtime.
698. An Autumn Afternoon.
699. A Quiet Stream.
671. Oliver Goldsmith's Social Gatherings, Green Arbour Court, 1758.
672. "Long was the Good Man's Sermon."
673. Stevens, A., Chiswick.
674. Durham.
675. Stillman, Mrs., Rome.
676. Fra Currado d'Offidi.
678. Immortality's Sunrise.
679. A Youth in the Flames of First Love.
681. Once Upon a Time.
682. Frame of Drawings of Highland Scenery.
683. Thornycroft, Miss Helen, London.
684. Orchids.
685. Shirley Poppies.
686. Azalea, with Bronze Figure of "The Mower."
687. Orchids.
689. Recruiting for Savonarola; "Ye Can not Serve God and Mammon."
691. The Blue Wagon.
692. Between the Showers.
694. "The Brief Silence of an Hour Reigns o'er the Fields."
695. Moonrise on the Lowther.
697. Phyllis.
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699. Torrisdale, Kintyre.
700. Arran, From Carradale.
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704. Chelsea Pensioners.
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710. Evening Shadows, Richborough, Kent.
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714. Whiteley, Miss Kate Mary, R.I., London.
715. Ammonite and Minerals.
717. Pelargoniums.
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720. Antwerp.
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723. Appleton, T. G., Shalford.
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726. The Sisters.
729. Venice.
730. Evening Light.
731. Baskett, Charles E., Colchester.
732. A Mend by the Way.
734. Stratford, St. Mary Bridge.
737. The Rt. Hon. W. E. Gladstone. (Mezzotint.)
739. Bits of Old Chelsea.
741. Bits of Old Chelsea.
742. From Waterloo Bridge.
743. Canterbury Cathedral.
744. Norwich.
745. Cameron, D. Y., Glasgow.
746. Frame of Etchings.
747. Frame of Etchings.
749. Manning the Pilchard Boats, Cornwall.
750. Coasters in Harbor.
751. Tramps.
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753. Repairing the Coast Road.
754. The Old Harbor.
756. The Holm.
757. Poplars.
758. The Moorhen.
759. On Hampstead Heath.
760. Blast Furnaces.
762. The Jew Merchant. (After Rembrandt.)

754. The Viscountess Crobie. (After Sir Joshua Reynolds.)
756. Sweet Violets. (After F. Dicksee.)
758. An Eastern Procession, Northern Spain.
759. Calle Mayor, Fuentenabia.
760. Anita.
761. Sunset.
762. Dicksee, Herbert, London.
763. Memories.
764. A Tigress.
765. His Majesty.
766. A Wanderer.

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767. The Golden Horn. (Artist's proof.)
768. The Midnight Sun, North Cape. (Artist's proof.)
769. St. Michael's Mount, Cornwall. (Artist's proof.)
770. A Corner of the Parthenon, Athens. (Artist's proof.)
771. The Yeim Djam, Constantinoile. (Artist's proof.)
772. The "Victory," Portsmouth. (Artist's proof.)
774. Nine Subjects, drawn directly on copper from nature.
775. Nine Outdoor Etchings, drawn directly on copper from nature.
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777. Finnie, John, Liverpool.
778. Margin of Rydal.
779. By Pastures Green and Quiet Waters.
781. Wood engravings (artist's proofs).
783. Ploughing.
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787. Durleston Head, Dorset Coast.
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789. Corfe Common, Dorset.
790. A Village Street in Corfe, Dorset.
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792. Study of Oaks, Chesterfield, Derbyshire.
793. Haig, Axel H., Haslemere.
794. English Pastoral.
795. The Portals of Reims.
796. The Asiles of Chartres.
797. The Chancel of Durham Cathedral.
798. Hall, Oliver, R. P. E., London.
799. A Study of Trees.
800. A Windy Day on Angerton Moss.
801. A Windy Day.
803. Six Etchings from Nature.
805. The Wood Sawyer.
806. The Jumping Horse. (After John Constable.)
807. He is Coming. (After Matthew Mario.)
808. Don Gaspar de Gusman, Count of Olivevez. (After Velasquez.)
809. Mill on the Yare. (After J. Crome.)
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797. Heralds of a Storm.
798. Water Meadows.
799. Silver Birches.
800. Arundel Castle.
801. Birthplace of Burns.
802. Counting the Flock.
803. A Welsh Hat.
804. A Vagrant.
806. In a Rose Garden.
807. A Favorite Author.
808. Harvest Festival.
810. Portrait. (After Vandyke.)
811. The Garden of Love. (After Titian.)
812. The Spinners. (After Velasquez.)
813. Alozo Cano. (After Velasquez.)
814. Bacchus and Ariadne. (After Titian.)
815. The Cast Shoe, Lynn Ferry. (Original etching.)
816. Harbor of Refuge. (After Fred Walker.)
817. Plough. (After Fred Walker.)
818. Spring. (After Fred Walker.)
819. Autumn. (After Fred Walker.)
820. Pen Farm. (Original etching.)
821. Illustrations to Milton’s “Lycidas.”
823. The Garden Front, Haddon Hall.
824. Sunrise on the Welsh Coast.
826. Banquet of the Officers of the Archers of St. Adrian. (After F. Hals.)
827. A Captive Persian. (Original dry point.)
828. Dry Point.
830. Haymakers.
831. The Patriarch.
832. The Great Frost of 1891, on the Thames.
833. The Virgin Porch, Oxford.
834. Paton, Hugh, Manchester.
835. A Reef in the Foresail.
836. A Cheshire Lane.
837. Highland Pasturage.
839. A Brittany Castle.
840. The Piazzetta, Venice (After Rain).
841. Piper, Miss Elizabeth, London.
843. Le Musee De Cluny, Paris.
844. Old Chelsea Church.
845. The Spinning Wheel.
846. The Cloisters, Bristol Cathedral.
848. Daniel’s Answer to the King. (After Briton Riviere, R. A.)
849. Trim. (After Sir E. Landseer.)
850. Stolen Kisses. (After Briton Riviere, R. A.)
852. But One.
853. Robinson, Gerald, Leatherhead.
854. Queen Henrietta Maria.
855. The Burgomaster.
856. Earl Spencer, K. G.
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858. Starborn, Charles Wm., London.
859. Seymour, Haden, Esq.
860. Oliver Cromwell.
861. Shakespeare.
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863. Frame of Book Plates.
864. Frame of Book Plates.
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867. Per Horse Power Per Hour. (Original mezzotint.)
870. Low Tide and the Evening Star. (Original etching.)
871. Rye Pier. (Original aquatint.)
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873. A Yorkshire Lane.
874. Going Home.
875. A Hunting Morn.
876. Wharfedale.
877. The Avon at Salisbury.
879. The Matterhorn.
880. The Grand Place, Antwerp.
882. A Street in Bruges.
883. En Normandie.
884. An Old Shop, Vitre, France.
885. Faubert’s Place, Regent Street, London.
887. “They say the lion and the lizard keep the Courts where Jamshyd gloried and drank deep.” (After Briton Riviere, R. A.)
888. The Night Watch. (After Briton Riviere, R. A.)
889. Sternberg, Frank, Bushey.
891. Dr. Butler. (After Professor Herkomer, R. A.)
892. Canon Ellison. (After Professor Herkomer, R. A.)
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914. A Carriage Accident.
915. Halt! Charge of Lancers at Military Tournament.
916. Ware Wire!
917. Ludgate Hill; A Slippery Pavement.
918. A Veterinary Examination.
919. "Twixt the Devil and the Deep Sea."
921. Horse Show; Harness Horses Trotting.
922. Equestrians at a Meet of the Coaching Club, Hyde Park.
923. Waiting for the Queen, Rotten Row.
924. Ladies Tilting.
925. Meet of the Devon and Somerset Staghounds.
926. Cover for Christmas Number (Sledging).

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927. The Triumph of Labor. (Artist's proof of a woodcut.)
928. Set of Original Drawings for Hawthorne's Wonder Book.
929. The Legend of the Goose and Golden Eggs.

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930. Six Pen and Ink Sketches—Originals of Cuts in "Punch."
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983. Illustrations to Anacreon.
984. Illustrations to Catullus.

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986. Bungalow, Nine-Mile Ride, Berks,
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992. Ceiling.
993. Drawing Room.
994. The Hall.
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996. New Medical School, Edinburgh
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997. Catholic Apostolic Church, Edin-
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998. Dumbell Cathedral.
999. Govan Parish Church.
1000. Central Station Hotel, Glasgow.
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1002. St. Paul's Church, Greenock.
1003. Exterior View of St. Colman's Cathed-
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1027. Design for Bronze Doors.
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1030. "Moxley," Holmbury, near Dorking,
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1031. St. Mary Star-of-the-Sea Church,
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1032. New Buildings on the Duke of West-
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1033. Block of New Buildings on the Duke
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1034. The New Bishopsgate Girl's School
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1036. Billiard Room, Avery Hill.
1037. Renaissance Gallery, Avery Hill.
1038. Picture Gallery, Avery Hill.
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1058. St. Luke's Church, Wintrington,
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<td>Frame of Designs, by the late G. E. Street, R. A.</td>
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<td>Kingsone Church, Dorset.</td>
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<td>Royal Clyde Yacht Club, Hunter's Quay.</td>
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<td>1132.</td>
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<td>Memorial Fountain, Reading.</td>
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HOLLAND.

GROUP 140.

Paintings in Oil.

Abrahams, Miss A., The Hague.
1. Still-life.
2. Flowers.
3. Autumn; Sunset.
4. Near the Water-mill.
5. Winter Morning.
6. Thaw, on the River Ysel.
Artz, D. A. C., deceased 1890, The Hague.
7. Girl Knitting.
8. The Pet Lamb.
9. Fall in the Fields.
10. Idle Hours on the Dunes.
Bakhuyzen, Miss G. J. van de Sande, The Hague.
14. Summer Morning.
15. Driving the Cattle Homeward.
16. Sunset in Drenthe.
Bastert, N., Amsterdam.
17. The Fall on the River Vecht.
18. The Bridge at Nederhorst.
19. Little Breeze on the Vecht.
20. The White Sail.
Bilders van Bosse, Mrs. M., The Hague.
22. Littlewood Near Oosterbeek.
Bisschop-Swift, Mrs. K., Scheveningen.
23. Motherly Cares.
Blommers, B. J., Scheveningen.
25. Washing Day.
26. On the Beach.
27. Fishing for Shrimps at Scheveningen.
Bock, Théophile de, The Hague.
28. Rising Moon.
29. Beech Trees.
30. Summer Evening.
Boks, E. J., Antwerp.
31. Surprised.
32. Church Reformed Church, Haarlem.
33. Synagogue, Amsterdam.
Breitner, G. H., Amsterdam.
34. Dutch Artillery.
35. Dutch Cavalry.
Calissendorf, A., Ryswyk.
36. In the Alms House at Ryswyk.
37. Lawn-tennis.
Cate, S. J. ten, Paris.
38. Night Scene at Havre.
39. The Thames, Floodtide.
40. The Thames, Lowtide.
41. Dutch Landscape.
Chattel, Fred J. du, The Hague.
42. The Lake in the Wood.
43. On the River (Vecht).
44. A Bright Day.
Dommershuizen, Chr., The Hague.
45. The Maas near Rotterdam.
Eerelman, O., The Hague.
46. Horse Fair at Rotterdam.
47. Winter in Holland.
Essen, Jan Van, Scherpenzeel.
49. Going Homeward.
50. A Dutch Farmhouse.
Flier, H. F. vander, Baarum.
51. Flock of Sheep; Afternoon.
Frankfort, Ed., Amsterdam.
52. Writing of Divorce.
Gabriel, P. J. C., Scheveningen.
53. Windmills at the Moerdyk (Holland).
54. The Harvest near Utrecht.
55. A Corner in the Village, Veeneendaal.
56. A Windmill in the Lowlands.
Haas, J. H. L. de, Brussels.
57. Landscape with Cattle.
58. Donkeys on the Shore (Picardy).
60. Cows Resting.
61. Cows Resting.
62. Summertime.
63. A Pleasant Correspondence.
Hamel, W., Rolde.
64. Harvest Time.
Heemskerck van Beest, J. E. van, The Hague.
65. On the Zuyder Zee.
Henkes, Gerke, Voorburg.
66. The Benevolent Society, "Dorcas."
67. The "Regenten."
68. The Knitting School.
69. In the Distillery.
70. A Dutch Peasant.
Hogendorps' Jacob, Mrs. A. van, The Hague.
71. Roses.
Hoynck van Papendrecht, J., Amsterdam.
72. Artillery Review at Utrecht.
Hugenholtz, Miss A., Amsterdam.
73. On the Heath.
Israels, Jozef, The Hague.
74. Alone in the World.
Fisherwomen at Zandvoort.
75. Sweet Home.
76. Summer Day on the Shore.
77. Type of a Fisherman.
Jansen, H. W., Amsterdam.
78. In the Docks (Amsterdam).
79. Canal at Amsterdam.
Kare, Mari ten, The Hague.
80. From the Window at Christmastide.
Kate, Mz. Johan M. ten, The Hague.
81. On the Zuyder Zee, Isle of Marken.
82. Sailing Out.
Kever, J. S. H., Amsterdam.
83. In the Garden.
84. A Little Greedy-Gut.
85.
Klinkenberg, K., Amsterdam.

134. Canal at Amsterdam (Sunset).
135. Drawbridge at Amsterdam.
136. An Old Tower at Amsterdam.
137. Canal at Alkmaar.

Maarel, M. van der, The Hague.

90. A Flower Woman from Haarlem.
91. A Cook.
92. Mar, D. de la, Amsterdam.
94. The Two Mills.
95. Between the Hague and Delft.
96. Dordrecht, Sun Effect.
97. Fishing Shells.
98. Canal at Rotterdam.

Maris, William, Voorburg.

99. Under the Willows.
100. Milking Time.
101. Cow and Calf.
102. Dutch Pasture.
103. Duck Pond.

Martens, W. J., Berlin.

104. The original of “Love’s Dream.”
Martens, Willy, the Hague.

105. A Cosy Corner.
106. At the Well.
107. Housework.

Mauve, Anton (1888), Laren.

108. Woodcart on the Heath.
110. Pasture Near the Dunes.
111. Ploughing the Fields (Drenthe).
112. Melis, H. J., Clarol, near Rotterdam.
113. Washing Day.

Mesdag, H. W., The Hague.

114. At Anchor.
115. Morning on the Shore at Scheveningen.
116. Ready to Sail Out.
117. Summer Morning at Scheveningen.
118. In Danger.

Mesdag van Houten, Mrs. S., The Hague.

119. Still Life.
120. Moonlight on the Heath.
121. Cottage.
122. On the Heath (Evening Effect).

Mesdag, Kz. T., Scheveningen.

123. Water Mill at Kruilo (Gelderland).
124. View on The Hague from Scheveningen.
125. In the Dunes.
126. Sheepcot at Loenen (Gelderland).

Mesdag van Calcar, Mrs. G., Scheveningen.

127. The Village Road (Vries, Drenthe).
128. Street at Hattem.
130. A Sandy Road.
131. At the River Side.
132. Winter.

Moes, Miss Wally, Amsterdam.

133. Praying Together.
134. Muller, Gerard, Amsterdam.
135. Disappointed.
136. Afternoon Tea.

Nakken, W. C., The Hague.

137. Farmhouse in Limburg.
138. Farmhouse in Welsden.


139. A Sober Meal.
Zicke, Ph., The Hague.
Father's Darling.
A Village Corner.

GROUP 144.

Paintings in Water Colors.
Winter Night.
A Snowy Road.
Artz, D. A. C., deceased, 1890, The Hague.
A Fisherman.
Sorrow.
First sketch.
Borchuyzen, Miss G. J. van de Sande, The Hague.
White Roses.
Bastert, N., Amsterdam.
Near the Farm.
Winter.
Bilders van Bosse, Mrs. M. The Hague.
Under the Beeches.
An Alley of Beech Trees.
Blommers, B. J., Scheveningen.
The Frugal Meal.
Mother's Darling.
Mill and River.
Landscape.
Dutch Landscape.
A Nook of the Farm.
Church Interior.
Farm Interior.
Landscape in the Dunes.
Cate, S. J., ten, Paris.
La Rue de la Chapelle, Paris.
Six different Views of Paris.
Summer Evening (Finisterre).
Chattel, Fred J. du, The Hague.
Autumn Evening.
The Fisherman's Home.
Donders Grandmont, Mrs. Hubrecht, Taormina, Sicily.
A Tired Nurse.
Worn Out.
Eerelman, O., The Hague.
Little Pugs.
Gabriel, P. J. C., Scheveningen.
The White House near Deventer.
A Dutch Mill.
Henkes, Gerke, Voorburg.
A Confidence.
Blacksmith Shop.
View of Delft's Haven.
Hooven, Miss C. Pruys van der, The Hague.
An Interesting Novel.
Israels, Jozef, The Hague.
Motherly Cares.
Jacob, Mrs. A. Hogendorp, The Hague.
Chrysanthemum.
Autumn.

Kate, Mari ten, The Hague.
A Bombardment.
The Chickens, Isle of Marken.
Kate, Mz. Johan M. ten, The Hague.
The Coffee Call.
On the Shore.
Kever, J. S. H., Amsterdam.
The Little Sister.
The Old Gardener.
The Young Gardener.
Klinkenberg, K., Amsterdam.
Canal at Amsterdam.
Canal at The Hague.
Koster, A. L., Haarlem.
The Last Autumn Leaves on The Ancient Bulwarks of Haarlem.
Bridge on The Maas at Maastricht.
Maaire, M. van der, The Hague.
On the Altar.
Maris, Jacob, The Hague.
The Old Nurse.
Maris, William, Voorburg.
Young Pigs.
Ducks.
Melis, H. J., Charlois, near Rotterdam.
Grandmother and Granddaughter.
Complaints.
Mesdag, H. W., The Hague.
In Danger.
On the Beach at Scheveningen, Twilight.
On the Dutch Coast.
Mesdag van Houten, Mrs. S., The Hague.
Moonlight.
Heath.
Still Life.
Mesdag Kz., T., Scheveningen.
After Harvest.
Mill at Leende (Noord Brabant).
Mesdag van Calcar, Mrs. G. Scheveningen.
Violets.
Sheep Grazing.
In the Snow.
Moes, Miss Wally, Amsterdam.
In a Village Church.
Just Awakened.
Nakken, W. C., The Hague.
Farmhouse in Limburg.
Farmhouse in Zuyd Holland.
The Mother and Her Children.
Offermans, T., Laren.
On the Threshold.
In the Hothouse.
Oppenoorth, W., The Hague.
Cut Trees.
Dutch Pasture Ground.
Poggenbeek, Geo., Amsterdam.
The Duck Pool.
Rochussen, C., Rotterdam.
Before the Races.
Roelofs, W., The Hague.
Mill at Abcoude (Holland).
Water Gulls in the Swamps (Holland).
Roelofs, W., Jr, The Hague.
Still-life.
Roosenboom, Mrs. Marguerite, Voorburg.
A Branch of Roses.
### DEPARTMENT K.—FINE ARTS.

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**GROUP 148.**

**Engravings and Etchings, Prints.**

Croiset van der Kop, Miss J., The Hague.

- 313. 2 Still-lifes in one frame.
- 314. 2 after H. W. Mesdag in one frame.
- 316. 2 Figure and Boats at Scheveningen in one frame.

Dake, Prof. C. L., Amsterdam.

- 317. Portrait of H. M. the Queen of Holland.
- 318. Portrait of Ludwig van Beethoven.

Hauten, Miss B. E. van, The Hague.

- 320. After Eugène Delacroix.
- 322. After Bloomers.
- 323. Study of Birds.
- 324. 6 etchings in one frame.
- 325. 3 etchings in one frame.
- 326. 4 etchings in one frame.

Koster, A. L., Haarlem.

- 327. 10 original etchings (artist's proofs) of picturesque views along the canal from The Hague to Delft.
- 328. Etching after the picture of Beguin, "The Quarry" in the museum "Mauritshuis" at The Hague. (Artist's proof.)
- 331. Breakwater.
- 332. Flushing.
- 333. The Meuse off Dordrecht.
- 334. A Dead Calm.

### ITALY.

**GROUP 139.**

**Sculpture.**

Albacini, A., Rome.

1. Roman Type. (Marble bust.)
2. Pompeian Flower Girl. (Marble.)
3. Pompeian Water Girl. (Marble.)
4. Innocence. (Marble statue.)
5. Bathing Woman. (Marble statue.)
6. Roman Type. (Marble bust.)
7. Eve After Sin.
9. Buciatte, (Marble medallion.)
10. Mrs. Julia Ward Howe. (Marble bust.)
12. Ornament Design in Plaster for a monumental fountain; Man Struggling with Marine Monsters.
13. Love's Dream. (Marble head.)
14. Mater Purissima. (Plaster statue.)
15. American Mythology. (Marble statue.)
16. Martyr. (Marble statue.)
17. Modesty. (Marble bust.)
21. Fruit Seller.
23. The Arts. (Six marble statuettes—Music, Poetry, Painting, Sculpture, Architecture and Dance.)
24. First Communion. (Marble bust.)
25. The Kiss. (Marble statue.)
27. Othello.
28. Mignon.
29. Gipsy.
31. Fraternal Love. (Marble group.)
32. On the Micide.
33. Surprise.
34. After the Vow.
35. Night. (Marble.)
37. Icarus. (Plaster Statue.)
38. Fambri, R., Venice.
39. A Duel. (Bronze.)
40. Ferrari, E., Rome.
41. Lincoln Dying. (Marble statue.)
42. Lesbia. (Marble bust.)
43. Fiaschi, Florence.
44. High Wave.
45. Gipsy.
46. Garibaldi, E., Milan.
47. First Gain.
48. Minstrel.
49. Galli, R., Milan.
50. Opus.
51. Pastime.
52. A Page.
53. Direttoire.
54. A Noble Vow.
55. The Piper.
56. Modesty.
57. Coquette.
58. Pigeon's Trap.
59. Sweet Remembrances.
60. The Widow.
61. Heroine.
62. Christopher Columbus.
63. Martyr.
64. Gindici, P., Milan.
65. First Token.
66. Gonnella, E., Milan.
67. Curiosetta.
68. Gugliandolo, V., Messina.
69. Rosa Donato, Sicilian Heroine.
70. Lavezzari, V., Genoa.
71. The Fisher Boy.
72. Luigi, A., Rome.
73. Trasteverina, Roman Type. (Bronze bust.)
74. Sortie de Bal. (Bronze statuette.)
75. Luigi, A., Rome.
76. Arab Shepherd. (Terra-cotta bust.)
77. President Cleveland. (Terra cotta bust.)
78. Mattoni, A., Ravenna.
79. Disinherited. (Plaster group.)
80. Sappho. (Marble statue, fragment.)
81. Monzini, G., Milan.
82. Butterfly.
83. Modesty.
84. Marguerite.
85. Olivari, G., Genoa.
86. A Wreath (bronze).
87. Pardo, V., Rome.
88. Christopher Columbus. (Bronze bust.)
89. Ramazzotti, L., Padova.
90. The Poor Flower Girl. (Marble statue.)
91. Springtime, Song. (Marble bust.)
92. Ramazzotti T., Padova.
93. Dream. (Bronze bust.)
94. Soebbeck, F.
95. Faun and Bacchante.
96. Soldini, A., Milan.
97. A Thought. (Marble bust.)
98. Tabacchi, O., Turin.
100. Tuffolina.
102. Mrs Alfred G. Harrison. (Marble bust portrait.)
103. The Last of the Spartans. (Marble statue.)
104. Troubeskoy, P., Milan.
105. Garibaldi on Horseback.
106. Indian Warrior.
107. Bedouin.
108. Melancholy.
110. Incroyable. (Marble statue.)
111. Vignetti, I., Florence.
112. Little Shepherd.
113. Ximenes, A., Palermo.
114. Montaineer Piper.
116. Rebecca.

GROUP 140.

Paintings in Oil.

Aly, Consoli, Florence.
Banti, E., Florence.
Barbarini, S.
Battistini, Aucona.
Battaglia, D., Naples.
Bedouin.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
Battaglia, D., Naples.
Battistini, Aucona.
100. Pergolesi Rehearsing his Stabat.

101. At the Fountain. (Pompeii.)
102. In the Peristilium. (Pompeii.)
103. The Anniversary.
104. The Favorites.
105. Between Two Fires.
106. Victims of Christmas.

107. The Lady of The Pearls.


109. Three Portraits.

110. An extra Team

111. In the Woods.
112. Playing truant.
113. On the Sly.
114. At the Country Inn.

115. Emigrants.

116. Mathilda.

117. Bottero, G., Turin.
118. Boatsmen's Canal.
119. The Juries.

120. A Summer Afternoon in a Roman Villa
121. The First Born.

122. Music Hath Charms.
123. Calderini, M., Turin.
124. Painting.
125. Curiosity. (Costume of Maiori.)
126. Summer.
127. Winter.

128. A Good Piece of Game.

129. Carcano, F., Milan.

130. Ideal Evening.
131. Aims for Church.
132. Lombard Plain.

133. At Chioggia.
134. Iseo Lake.

135. The Believers.
136. At Asiago.
137. Ignorance.

138. Fall of the Balloon.
139. The Snow Fall at Pescairenco.
140. Rest of Fishermen at Chioggia.

141. A Country Family.
142. Arzago.
143. Study.
144. Sunset.

145. Four Different Subjects.

146. Cei, C., Florence.

147. Oil Painting.


Southwest Wind.

149. Spring Clouds.
150. Basin of St. George.

151. Sunset at Venice.

152. On the Lagoon.


154. Girls of the People (Venice).

155. Queen Catherine of England.

156. Corelli, A., Rome.

157. In the Woods.
ITALY.

197. Costume of Capri.
198. The Sanctuary of Cava dei Tirenni.
199. Declaration of Love.
200. The Prayer on the Mountain.
201. Recreation in the Country.
203. Two Sicilian Landscapes.
204. Painting.
205. Regatta at Venice.
206. Madonna.
207. Vanity Fair.
208. Lombardo, Calamica G., Palermo.
209. Painting.
211. Charge of Cavalry.
212. Malaspina, A., Milan.
213. Two Paintings.
214. Mariani, C., Rome.
216. From Scott's Ivanhoe.
217. Two Flowers.
218. Mariani, P., Milan.
219. Five Paintings.
220. Martinetti, M., Rome.
221. Malaria.
222. Milesi, A., Venice.
223. Papa's Boat.
224. Mollica, Naples.
225. Rivals.
227. Delia.
228. Moradei, A., Ravenna.
229. Baby's Inducements.
230. Would You Like My Rose?
231. Family Joys.
233. Alpine Landscape.
234. Musso, G., Palermo.
235. Visit at the Temple.
236. Nani, V., Venice.
237. Consequences of Vice.
238. Teasing Surprise.
239. Nobili, R., Florence.
240. Listening.
243. Fruit Seller in Venice.
244. The Want of All.
245. Fruit Shop in Venice.
246. Panerai, R., Florence.
247. Landscape with Cattle.
249. Sorrento Marine.
250. Prati, E., Aniedo.
251. First Flowers in Venice.
252. Pusterla, A., Milan.
253. Painting.
254. Quaranta, G., Milan.
255. Painting.
256. Ragusa, E., Palermo.
257. Fled Away.
258. The Giulia.
259. Rapetti, C., Milan.
260. Painting.
261. Reyccind, E., Turin.
262. On the Po Embankment at Turin.
263. Rinaldi, C., Florence.
264. Hopeless.
265. Rocchetti, Torres A., Palermo.
266. Painting.
268. Vanity.
269. The Friends of Once.
270. Rossi, Florence.
271. The Stable.
273. Rehearsing the Lesson.
274. Interrupted Nap.
275. Sweet Remembrances.
276. Riols, Palermo.
277. Painting.
278. Salvadori, R., Milan.
279. 3 Paintings.
280. Sartorelli, Venice.
281. On the Lagoon.
283. Interior.
284. Santoro, R., Naples.
285. In the Bay of Naples.
286. Gipsies.
289. In the Fields.
291. Oil Painting.
292. Serena, L., Treviso.
293. Stall.
294. Spence, W., Florence.
295. Oil Painting.
296. Simoni, G., Rome.
297. Oriental Woman on the Terrace.
298. Stefani, L., Milan.
299. Painting.
300. Painting.
301. Tano, E., Florence.
302. Tuscan Country.
303. Tarenghi, E., Rome.
304. Contemplation.
305. Ferrara, O., Naples.
306. Faith.
308. Herd of Sheep Crossing the Roman Campagna.
309. Tom, Milan.
310. Painting.
311. Painting.
312. Tommasi, A., Leghorn.
313. Return From the Market.
314. After Sunset.
315. Tuminetti, A., Milan.
316. Oil Paintings.
318. Landscape.
319. Van Elven, P. T., Milan.
320. Caravan by the Dead Sea.
321. Market at Chaumont.
322. Vollaro, P., Naples.
323. A Moment of Rest.
324. Wolf, Venice.
325. In the Kitchen.
326. Zanetti, G., Venice.
327. The Garden of Venice.
328. The Island of Malamocco and Torcello.
282. Canal of Torcello.
   **GROUP 141.**
   Paintings in Water Colors.
   Aureli, G., Rome.
283. Presentation of Monseigneur de Richelieu to Henri IV of France.
   Battaglia, A., Rome.
284. Mower Girls in the Campagna.
   Crisafi, N., Palmero.
285. Monte Pellegrino. (Palermo.)
   Corelli, A., Rome.
286. Woman of the Latium.
287. Man of the Latium.
288. Serenade.
   De Tommasi, G., Rome.
289. Holy Water Cup, St. Peter’s Church, Rome.
   Martinetti, M., Rome.
290. Beggar.
   Pennachini, D., Rome.
291. Baby is No More!
   Tarantella.
292. Market at Sorrento.
   Simoni, G., Rome.
293. The Last Days of the Ramadam.
   Tiratelli, C., Rome.
294. The Patron Saint’s Day.
   **GROUP 144.**
   Chalk, Charcoal, Pastel and Other Drawings.
   Capranica del Grillo G.
   Nennella.
   Thecla.
   Truth.

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**JAMAICA.**

**GROUP 140.**
Paintings in Oil.
Lee, Mrs. L., Chapelton.
1. Paintings.
   Thompson, Charlton, Morant Bay.
2. Paintings.

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**JAPAN.**

**GROUP 139.**
Sculpture.
Bunzo, Fujita, Tokio.
1. Plaster cast.
   Hiromu, Okada, Tokio.
2. Bronze group.
   Ichitaro, Morimura, Tokio.
3. Copper art work.
   Kanetaro, Imai, Tokio.
4. Bronze cast.
   Kaneya, Miyashita, Tokio.
5. Marble. (Sculpture.)
   Koun, Takamura, Tokio.
6. An Old Monkey. (Sculpture.)
   Kuhe, Hayashi, Tokio.
   Masakichi, Suzuki, Tokio.
8. Bronzes.
   Tadaichi, Shiotsu, Shimane.
   Teruchika, Tamino, Toyama.
10. Incense burner.
   Totaro, Kikuchi, Tokio.
   Tsuginori, Kozaki, Tokio.
13. Plaster casts.
   Yazaemon, Yokoyama, Tokio.
   Yeikichi, Hayashi, Tokio.
15. Bronzes.

**GROUP 141.**
Paintings in Water Colors.
Bland, Mrs., Trinityville.
1. Paintings.
   Thompson, Charlton, Morant Bay.

16. A collection of 186 paintings in water colors after the Japanese style, no object titles being furnished:
   Sinjiro Ikeda, Jimpachi Ito, Shume Iwasaki, Yoshibumi Inouye, Kyotaro Hara, Tadakuni Hashimoto, Motoharu Nishiwaki, Nankoku Osawa, Kunitaro Keneda, Masanobu Kano, Yubi Tanaka, Kyuzaburo Takahashi, Osamu Tsuchida, Mokichi Nagamine, Seitaro Nagase, Kokoku Murata, Yoshio Muraska, Yashiro Uji, Bunkyos Nomura, Beisen Kubota, Fuku Matsumoto, Hono Fukuda, Tama Komiyia, Rie Asama, Jyotaro Araki, Sojiro Saito, Masaki Yuki, Toshiaki Shimamura, Sessho Sug-
NEW SOUTH WALES.

GROUP 139.
Sculpture.

1. Specimens of fruits carved in New South Wales marble.
820

Hooworth, G., Sydney.
2. Figure of "Diana," executed in New South Wales freestone.
820

3. Portrait bust, in plaster, of Madame Sara Bernhardt.
820
4. Portrait bust, in plaster, of Mr. John Dillon, M. P.
820

GROUP 140.
Paintings in Oil.

Art Society of New South Wales, Sydney.
A collection of paintings in oil by members of the society:

Puggenit, W. C.
5. Sunset, Looking up Lane Cove from the Avenue.
820

Spring; Lane Cove from Italia.
820

Stephens, Miss E. A.
7. White Peonies.
DEPARTMENT K—FINE ARTS.

Williamson, Mrs.
10. Gum-tree Blossoms.
13. View from Coalcliff, New South Wales.

Creed, Miss.
15. Sunflowers.

Collingridge, A.
17. Autumn Pasture, Richmond, New South Wales.

Fischer, A. J.
18. "Revenge."

Halligan, Mrs. G.
21. Wistaria.

Willis, Miss.
22. Study of Loquats.

Fullwood, A. H.
23. "How sweet the moonlight sleeps upon this bank,
Here we will sit, and let the sounds of
music Creep in our ears; soft stillness of the
night Becomes the touches of sweet harmony."

Fullwood, A. H.
24. Shoalhaven River, from Cambewarra.
25. Rain and Sunshine.

Hunt, C. H.
26. Summer.
27. The Milkmaid.

McIlwair, Mrs.
29. In the Shade of the Gum Tree.

Bell, Miss Ada.
31. Flowers from the Residence of Sir
Spencer Wells, Hampstead, London.

Bell, Miss Ada.
32. English Blue Flags.

McGregor, A. S.
33. Derelic.
34. Port Phillip by Night—A Calm.

Collingridge, Arthur.
35. Discovery of the Hawkesbury River by
Captain Phillip.

Collingridge, Arthur.

Combes, Edward, C. M. G., M. L. C.,
Sydney.
37. Monument of La Perouse, Botany Bay.

Doyle, Miss J. M., Goulburn.
38. Scene from Lake Bathurst.

Drinkwater, Charles, Newcastle.

Flemming, Mrs. M. P., Sydney.
40. William Ewart Gladstone Eyre.
Vaughan, Sydney."

Holden, R. Henry, Kiama.
42. Aborigines of New South Wales Wild
Duck Hunting.

Holmes, Cecil, Sydney.
43. Portrait from life: Sir Henry Parks, G. C. M. G., M. P.

M’Carthy, C. W., M. D., F. R. C. S.,
Sydney.
44. Portrait: Madame Sara Bernhardt as
"Cleopatra."

Pinhey, Mrs. Charles, "Aratong,"
Sydney.

Rowan, Mrs. Ellis, Upper Macketon,
Victoria.
45. Southdown Sheep.
46. Panels of Lilies.
47. Panel-Acanthus.

Sherman, Mrs. L. S., Sydney.
48. The Young Medical Student.

Thomas, Woolaston J., Sydney.
49. A Pioneer’s Quarters, Campbelltown.

Trustees of the National Art Gallery
of New South Wales, Sydney.
50. A loan collection of paintings in oils
by artists of New South Wales.

Ashton, J. R.
51. Portrait of Sir Henry Parkes, G. C. M. G., M. P.

Ashton, J. R.
52. The Prospector.

Lister, W. Lister.
53. After the Shower.

Spence, Percy.
54. The Upper Nepean.

Mahoney, Frank P.
55. Rounding up a Straggler.

Hunt, C. H.
56. Evening.

Condor, C.
57. Departure of the "Orient."

Mahoney, Frank P.
58. "As in the Days of Old."

Roberts, Tom.
59. Eileen.

Roberts, Tom.
60. Aboriginal Head.

Stoddart, Mary.
61. "From Earth to Ocean.

Fullwood, A. H.
62. The Station Boundary.

Watson, A. E., Sydney.
63. Loan collection of oil paintings, by
J. H. Carse.

Cattle Watering, Bulli Pass.
64. Farmyard at Mulgrave. (N. S. W.)

65. Scene at Tilba Tilba. (N. S. W.)

66. Weatherboard Falls, Blue Mountains.

M. P., (N. S. W.)
67. Mountain Scene, Katoomba. (N. S. W.)

Miner’s Camp by Moonlight, Lithgow. (N. S. W.)

68. Scene on the Mountains, Mount Victoria.

(N. S. W.)

69. Pallette Knife Scene, Bulli Pass. (N. S. W.)

70. Coast Scene, near Botany. (N. S. W.)

71. Wheeny Creek, Hawkesbury River.

(N. S. W.)


(N. S. W.)

73. Scene at Mossman’s Bay. (N. S. W.)

74. Scene at Emu Plains. (N. S. W.)

75. Scene at Richmond. (N. S. W.)

76. Scene at Richmond.
NEW SOUTH WALES.

77. Scene on the Hawkesbury River. (N. S. W.)
78. Coast Scene, Bondi. (N. S. W.)
79. Scene, Parramatta River. (N. S. W.)
80. Scene at Pitt Town, on the Hawkesbury River. (N. S. W.)
81. Coast Scene, Broken Bay. (N. S. W.)
82. Hut by Moonlight at Broken Hill. (N. S. W.)
83. Scene at Port Jackson. (N. S. W.)
84. Swamp Scene near the Coast, Manly. (N. S. W.)
85. Scene at Randwick. (N. S. W.)
86. Scene at Narrabeen. (N. S. W.)
87. Bark Hut, Clyde River. (N. S. W.)
88. Creek Scene, Blue Mountains. (N. S. W.)
89. Scene at Gosford. (N. S. W.)
90. Mountain Scene, Kurrajong. (N. S. W.)
91. Three Deserted Hut Scenes, Morning, Noon and Night. (N. S. W.)
92. Scene at Broughton Pass. (N. S. W.)
93. Grose Valley. (N. S. W.)
94. Coast Scene, Newcastle. (N. S. W.)
95. Wattle Flat. (N. S. W.)
96. Bulli Pass. (N. S. W.)
97. Scene at Blacktown. (N. S. W.)
98. Coast Scene at Coogee Bay. (N. S. W.)
99. Bushrangers' Bay. (N. S. W.)
100. Scene at Woy Woy, Brisbane Water. (N. S. W.)
101. Scene in New Zealand.
102. Three Pallette Knife Scenes, Lane Cove River.
103. Scene on the Lynn. (N. S. W.)
104. Scene on the Lynn. (N. S. W.)
105. Loch Ard.
106. Scene on the Nepean River. (N. S. W.)
108. Cattle Track.

GROUP 141.

Paintings in Water Colors.


Hunt, C., Horbury.

110. Valley of the Murrambigbee.
111. Lady Macquarie's Chair.
112. Sheep Drovers, Australia.
113. Heron, W.
114. Looking Seaward, Little Coogee Bay. (McGregor, A. S.)
115. A Rift in the Storm.
117. Rowan, Mrs. Ellis, Derreweit, Upper Macdon, Victoria.

A collection of 99 pictures of the flora of Australasia; painted by the exhibitor.

118. Goodenensis Coeules. (W. A.)
119. Leschenaultia Floribunda. (W. A.)
120. Cassia Breweri. (Cairns Ranges, Q.)
121. Alecetron Excelsum. (N. Z.)
122. Thamnosma Microcarpa. (Q.)
123. Albizia Luicy. (Cairns, Q.)
124. Perso Niapinifolia. (N. S. W.)
125. Capparis Nobilis. (N. S. W.)
126. Coleus Cuscelarioides. (Q.)
127. Anelenia Gramineum. (Q.)
128. Verticordia Nitens. (W. A.)
129. Verticordia Nitens. (W. A.)
130. Josephinia Grandiflora. (Somerset, Q.)
131. Grevillea Polystachya. (Q.)
132. Hibiscus Hugeli. (W. A.)
133. Erythrina vespertilio. (Prince of Wales Island.)
134. Gossypium Sturtii. (N. S. W.)
135. Tylorhina Grandiflora. (N. S. W.)
136. Hemigenia Purpures. (N. S. W.)
137. Eremophila Bignoniflora. (N. S. W.)
138. Branchichytom Bidwilli. (Q.)
139. Asclepias Curassavica. (Normandy, Q.)
140. Dendrobium Bigibbium. (New Guinea.)
141. Cordyline Murcsonice. (Rockhampton.)
142. Melaleuca Leucadendron. (Rockhampton.)
143. Boronia Microphylla. (N. S. W.)
144. Lasiopterum Ferrugineum. (N. S. W.)
145. Mitrasacme Polymorpha. (N. S. W.)
146. Drasophyllum Secundum. (N. S. W.)
147. Sesbania Grandiflora. (W. A.)
148. 1. Andersonia Czerulea. (W. A.)
149. 2. Cryptandra Arbutiflora. (W. A.)
150. Hibiscus Manihot. (W. A.)
151. Erythrina Indica. (Somerset, Q.)
152. Mrosierosiers Florida. (N. Z.)
153. Hoheria Populnea. (N. Z.)
154. Eucalyptus Calophylla. (W. A.)
155. Boronia Ledifolia. (N. S. W.)
156. Boronia Triphylla. (N. S. W.)
157. Hoheria Populnea. (N. Z.)
158. 1. Dendrobiun Summeri. (Q.)
159. 2. Dendrobium Canaliculatum. (Q.)
160. 3. Eriostemon Dancoelatus. (N. S. W.)
161. 3. Eriostemon Umbellatus. (N. S. W.)
162. Euryptus Ficifolia. (W. A.)
163. Capparis Lasiantha. (W. A.)
164. Clantbusus Dampieri. (S. A.)
165. 1. Grevillea Robusta. (Q.)
166. 2. Cryptandra Arbutiflora. (W. A.)
167. Hovea Triaperma. (W. A.)
168. Hibiscus Heterophyllus. (N. S. W.)
169. Actinutus Helianthi. (N. S. W.)
170. Hovea Linearis. (N. S. W.)
171. Euphrosia Brownii. (N. S. W.)
172. Calycotrich Muricata. (W. A.)
173. Calycotrich Strigosa. (W. A.)
174. Calycotrich. (W. A.)
175. Ceratopetaleum Gummiferum. (N. S. W.)
176. Albiazisa Tozeri. (Q.)
177. Clematis Aristata. (N. S. W.)
178. Eugenia Macrocarpa. (Q.)
179. 1. Dampiera Spicigera. (W. A.)
180. 2. Triarphis Bromoides. (W. A.)
181. Tetraethca Nuda. (W. A.)
182. 1. Sprengelia Incarnata. (N. S. W.)
183. 2. Epcrisis Pungens. (N. S. W.)
184. 3. Thryptomene Ciliata. (N. S. W.)
185. Melaleuca Wilsoni. (Vic.)
186. Kunzea Corifolia. (Vic.)
187. Melaleuca Ericofolia. (Vic.)
188. Ipomea pes Caprace. (Somerset, Q.)
189. Hyposostes Floribunda. (Q.)
190. Arauza Albens. (N. S. W.)
191. Styphelia Aggreggata. (N. S. W.)
193. Dendrobium Speciosum. (N. S. W.)
194. Billardera Longiflora. (Tas.)
DEPARTMENT K.—FINE ARTS.

165. Eucalyptus Maculata. (Vic.)
166. Hakea Amplexicaulis. (W. A.)
167. Hakea Ampelastoma. (W. A.)
168. Abutilon Geranioide. (W. A.)
169. Ipomoea Grandiflora. (Q.)
170. Hibiscus Rosa Sinensis. (China.)
171. Eremaea Violacea. (W. A.)
172. Sphenotoma Squarrosum. (W. A.)
173. Conospermum Densiflorum. (W. A.)
174. Dendrobium Undulatum. (W. A.)
175. Chloris Viminalis. (W. A.)
176. Clitoria Ternatea. (Fern Island Q.)
177. Pimaea Sulphurea. (W. A.)
178. Cylindropuntia Bigelovii. (W. A.)
179. Choris Mitis. (W. A.)
180. Myrtus Comptoniana. (W. A.)
181. Victorian Flowers.
182. Aster Exul. (W. A.)
183. Group of Stylidiaceae. (W. A.)
184. Grevillea. (N. S. W.)
185. Anthocercis Viscosa. (W. A.)
186. Kennedya Comptoniana. (W. A.)
187. Victorian Flowers.
188. Group of Stylidiaceae. (W. A.)
189. Group of Hakeas. (W. A.)
190. Grevillea. (N. S. W.)
191. Group of Sundews. (W. A.)
192. Patersonia Glabra. (N. S. W.)
193. Evolvulus Alsinoides. (Q.)
194. Lindernia Crustacea. (Q.)
195. Tecoma Australis. (Q.)
196. Epacris Impressa. (Vic.)
197. Erica. (N. S. W.)
198. Eugenia. (Q.)
199. Hugonia Jenkinsii. (Q.)
200. Tabernaemontana Pubescens. (Q.)
201. Exocarpus Cupressiformis. (Vic.)
202. Zyrus Pauciflora. (Q.)
203. Erythrina Indica. (Q.)
204. Chloris Ventricosa. (Q.)
205. Phaseolus Adenanthes (Meyer. Q.)
206. Marianthus Bignoniaceae (F. v. M. Vct.)
207. Anigozanthos Manglesii. (W. A.)
208. Aristotelia Peduncularis. (Q.)
209. Platycyclus Galoides. (W. A.)
210. Strophelium Xerophyllum. (W. A.)
211. Hovea Celsi. (Perth, W. A.)
212. Bauhinia Hookeri. (Q.)
213. The Christmas Tree of New Zealand in Bloom.
215. The Vegetable Octopus of New South Wales.
216. Crescend Head, Point Plomer.
218. Cathedral Rocks, Kiama.
221. The Shoalhaven River at its Junction with the Broughton.
224. Bevan's Leap.
225. The Coast, near Ben Buckler.
226. “A Preliminary Puff”
227. Silvery Seas.

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

228. Design for ceiling decoration.
229. Original drawing in candle-smoke.

Grice, Benjamin J., Sydney.
## NORWAY.

### GROUP 139.
**Sculpture.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>By the Shore.</td>
</tr>
<tr>
<td>2</td>
<td>A Child.</td>
</tr>
<tr>
<td>3</td>
<td>Svør, Anders, Christiania.</td>
</tr>
<tr>
<td>4</td>
<td>A Farmer.</td>
</tr>
<tr>
<td>5</td>
<td>A Little Girl.</td>
</tr>
<tr>
<td>6</td>
<td>Tønnesen, Ambrosia, Bergen.</td>
</tr>
<tr>
<td>7</td>
<td>Hjordis.</td>
</tr>
<tr>
<td>8</td>
<td>Visdal, T., Christiania.</td>
</tr>
<tr>
<td>9</td>
<td>Gust of Mr. Knudsen.</td>
</tr>
</tbody>
</table>

**Class 822.**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skeibroek, Mathias, Christiania.</td>
</tr>
<tr>
<td>Bust of Bjørnstjerne Bjornson.</td>
</tr>
</tbody>
</table>

### GROUP 140.
**Paintings in Oil.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Lake.</td>
</tr>
<tr>
<td>10</td>
<td>Landscape.</td>
</tr>
<tr>
<td>11</td>
<td>Valkyrie.</td>
</tr>
<tr>
<td>12</td>
<td>Backer, Harriet, Christiania.</td>
</tr>
<tr>
<td>13</td>
<td>Berg, Gunnar, Svolvaar.</td>
</tr>
<tr>
<td>14</td>
<td>From Lofoten.</td>
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<tr>
<td>15</td>
<td>Borgen, Fr., Christiania.</td>
</tr>
<tr>
<td>16</td>
<td>From Gudbrandsdalen.</td>
</tr>
<tr>
<td>17</td>
<td>Norwegian Landscape.</td>
</tr>
<tr>
<td>18</td>
<td>From Ojær.</td>
</tr>
<tr>
<td>19</td>
<td>Bratland, Jac., Christiania.</td>
</tr>
<tr>
<td>20</td>
<td>A Commission for Tax Assessment.</td>
</tr>
<tr>
<td>21</td>
<td>Collett, Fredrik, Christiania.</td>
</tr>
<tr>
<td>22</td>
<td>Winter.</td>
</tr>
<tr>
<td>23</td>
<td>After Sunset.</td>
</tr>
<tr>
<td>24</td>
<td>Thawing Weather.</td>
</tr>
<tr>
<td>25</td>
<td>The Devil's Hole.</td>
</tr>
<tr>
<td>26</td>
<td>Mesna, Lillehammer.</td>
</tr>
<tr>
<td>27</td>
<td>Diriks, Edward, Christiania.</td>
</tr>
<tr>
<td>28</td>
<td>On the Norwegian Coast.</td>
</tr>
<tr>
<td>29</td>
<td>Winter.</td>
</tr>
<tr>
<td>30</td>
<td>Falsen, Mimi, Christiania.</td>
</tr>
<tr>
<td>31</td>
<td>In Thought.</td>
</tr>
<tr>
<td>32</td>
<td>Gloersen, Jacob, Christiania.</td>
</tr>
<tr>
<td>33</td>
<td>After Sunset.</td>
</tr>
<tr>
<td>34</td>
<td>Grimelund, Johs., Paris.</td>
</tr>
<tr>
<td>35</td>
<td>At the Entrance of the Hardanger-fjord.</td>
</tr>
<tr>
<td>36</td>
<td>Gronvol, Bernt., Bergen.</td>
</tr>
<tr>
<td>37</td>
<td>Summer Day in Norway.</td>
</tr>
<tr>
<td>38</td>
<td>An Old Man.</td>
</tr>
<tr>
<td>39</td>
<td>Gude, Nils., Christiania.</td>
</tr>
<tr>
<td>40</td>
<td>Heartsick.</td>
</tr>
<tr>
<td>41</td>
<td>Portrait. (Henrik Ibsen.)</td>
</tr>
<tr>
<td>42</td>
<td>Hansteen, Nils, Christiania.</td>
</tr>
<tr>
<td>43</td>
<td>Norwegian Fjord.</td>
</tr>
<tr>
<td>44</td>
<td>Norwegian Landscape.</td>
</tr>
<tr>
<td>45</td>
<td>Marine. (Pilot.)</td>
</tr>
<tr>
<td>46</td>
<td>From Oresund.</td>
</tr>
<tr>
<td>47</td>
<td>From Hornbak. (Denmark.)</td>
</tr>
</tbody>
</table>

### Winter Day at Skagen. (Denmark.)

- **Heyerdahl, Hans, Christiania.**
- **Oui ou Non.**
- **Bathing Boys.**
- **Fishers.**
- **By the Shore.**
- **Birch Woods.**
- **From Aasgaardstrand.**
- **Portrait of Mr. Sivert Nielsen, President of the Storthing:** (Norwegian Congress.)
- **Portrait of Mrs. Laura Gundersen.**
- **Hjelrow, Ragnvald, Christiania.**
- **Springtime in Paris.**
- **Hjersing, Arne, Christiania.**
- **From Asker.**
- **Holmboe, Thorolf, Christiania.**
- **In the North Sea.**
- **Nocturne.**
- **Autumn.**
- **Marine.**
- **Snow Storm.**
- **Jorgensen, Sv. Drammen.**
- **Bergen, P., N.**
- **Kaulum, H., Laarkollen.**
- **Norwegian Herringfishery at Hvaloerne.**
- **From Skiorhalden.**
- **From the Herringfisheries.**
- **Herringfishery, Winterday.**
- **Kielland, Kitty, Stavanger.**
- **The Christiania Fjord.**
- **An Old Bridge in Norway.**
- **Summer Night in Norway.**
- **Kolsto, Fr., Bergen.**
- **A Summer Day on the Coast.**
- **The Ship's Boy.**
- **Konow, Karl, Gausdal, Norway.**
- **Going to Church.**
- **Krogh, Christian, Christiania.**
- **Leif Erikson Discovers America.**
- **Krogh, Oda, Christiania.**
- **Summer Evening.**
- **Sun Spots.**
- **Larum, Oscar, Christiania.**
- **Twilight.**
- **Moe, Sigurd, Stavanger.**
- **From Hafsfjord.**
- **Munthe, Gerhard, Sandviken, Christiania.**
- **Evening in Eggedal Norway.**
- **Girl, Hallingdal.**
- **The Old Farm.**
- **Winter.**
- **Munthe, Ludv., Dusseldorf.**
- **Norwegian Village.**
- **Müller, Johns, Ostre Aker.**
- **The Last Sun-rays.**
- **Cloudy Weather.**
- **Møller, N. B.**
- **Norwegian Landscape.**
- **Normann, Nidelisten, Berlin.**
- **Summer Night Loften.**
- **Raftsund Loften.**
- **North Wind. (Coast of Norway.)**
- **Petersen, Eilif, Christiania.**
- **Evening.**
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### GROUP 141. Paintings in Water Colors.

- Munthe, Gerk. Sandviken, Christiania.
- Fairy Tales:
  - Troll’s Cave:
  - Wooler.
  - The Wise Bird.
  - Frightened.
  - Three Princesses.
  - The Serpent.
  - The Child and the Angel.
  - The Wicked Stepmother.
  - The Song.
  - The Hell Horse.
  - The Buck’s Brise.

### GROUP 143. Engravings and Etchings.

- Nordhagen, Joh., Christiania.
- Five Etchings.

### GROUP 144.

- Chalk, Charcoal, Pastel and Other Drawings.
  - Nielsen, Eivind, Christiania.
  - Drawings in a Frame.
  - Thaulow, Fr.
  - By the River. (Winter.)
  - In March.
  - Werenskiold, Erik, Christiania.
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  - Drawing.
  - Drawing.
  - Drawing.
  - Drawing.

### RUSSIA.

#### GROUP 139. Sculpture.

- Beklemisheff, Vlamidir Alexandrovitch.
  - A Runaway Slave. (A Group in Plaster.)
  - Caprice. (Plaster.)
  - Dillon, Maria, Lyона.
  - Bliss. (Statue in Bronze.)

- Gunzburg, Ilia Takovlevitch.
  - Statuettes in Bronze. (Property of the Academy.)
  - The First Music.
  - Count L. Tolstoi.
  - Statuette, Mr. T. T. Schischkine.
  - Statuette, Mr. A. T. Rubinstein.
  - Statuette, Mr. P. T. Tchaikovsky.
  - Statuette, Mr. V. V. Vereschagin.
GROUP 140.

Paintings in Oil.

Collection of Pictures Exhibited by the Imperial Academy of Fine Arts.

Ashnazy, Isaak, Lvovitch.

Celebration of the Sabbath.
18. The Bridal Room (A Talmudist) on Probation.

Baroness Vrangel, Helena Karlovna.

Bobroff, Victor Alexievitch.

(Bodareffsky, Nicolay Kornilovitch.

Bronnikoff, Fedor Andreievitch.
22. Christian Martyr. (1878.) (Property of the Academy.)

Bruni, Nicolay Alexandrovitch.
23. The Candle-bearers. (Property of the Academy.)

Dmitrieff-Orenbursky, Nicolay Dmitrievitch.

25. The Military Painting Shop.


Ducker, Eugenie Eduardovitch.
27. Noon. (Property of the Academy.)

Endoguroff, Ivan Ivanovitch.
28. The Early Spring. (Property of the Academy.)

Egorovitch.
29. A Heavy Rain. (Property of the Academy.)


Fedders, Julius, Ivanovitch.
31. My Villa. (Property of the Academy.)

Frentz, Rudolf Fedorovitch.
32. An Inn. (Property of the Academy.)

Galinhsky, Vissislaff Nihailovitch.
33. Forest.

Graedkofsky.
34. In the Swim.

Holmsky, Vasily Andrievitch.
35. The Mushroom Gatherers Taking a Rest. (1888.) (Property of the Academy.)

Jacoby, Valerian Ivanovitch.
36. The Ice Palace. (1881.) (Property of the Academy.)

Juravleff, Firs Sergeievitch.
37. Hay Market at Rest.

Khorovitch.
38. He Loves Me—He Loves Me Not.

39. The Family of a Street Musician.

Kiffshenko, Alexei Danilovitch.
40. The Military Counsel at Fily. (Property of the Academy.)

41. A Wolf Caught Alive. (Property of the Academy.)

Assorting Feathers.
42. At the Crater of Lediashi.

Klagis, Fedore Andreievitch.
43. Interior View of the Church of the Saviour at Moscow.

Klewer, Julie Julievitch.
44. Forest. (Property of the Academy.)

Klodt Von Jurgensburg, Baron Mihail Constantinovitch.
45. The Czar's Bounty.

Korovin, Constantine.
46. Spanish Girls.


Korzuhin, Alexey Ivanovitch.
49. The Evening before the Wedding. (Property of the Academy.)

50. Peasant life. (Property of the Academy.)

Kovaleffsky, Pavel Osipovitch.
51. Excavation of Rome. (1878.) (Property of the Academy.)

Kramskoy, Ivan Nicolaievitch.
52. Portrait of Mr. Soloffieff. (Property of the Academy.)

53. Portrait of the Artist's Daughter. (Property of the Academy.)

Kratchoffskoy, Josip Eustaffievitch.
54. The New Moon. (Property of the Academy.)

55. A July Morning.

Krugtusky, Constantin Eakovlevitch.
56. The Heat over, A Fresh Breeze on. (1888.) (Property of the Academy.)

57. After Work.

58. Winter, (1888.)

59. A Night in Little Russia.

Kuriard, Palageia Petrovna.
60. A Landscape.

Kuzneoff, Nikolay Dmitrievitch.
61. The Justice of the Peace. (1888.)

62. In the Garden. (1889.)

63. The Interrupted Breakfast.

Lemock, Lari Vikentievitch.
64. Peasant Girls.

Levithan, Isaac.
65. Holy Day in a Convent.

Litotvthenko, Alexander Dmitrievitch.
66. The Italian Ambassador, Calvuc Draw-the Favorite Falcons of the Czar.

67. Auessey Mihailovitch. (Property of the Academy.)

Macopsky, Constantine, Egorovitch.
68. A Bacchanal.

69. The Bride's Attire.

70. Portrait of a Lady.

Makovsky, Vladimir Egorovitch.
71. The Gamblers' Quarrel.

72. The Niggard.

73. A Public Market in Moscow. (1879.)

74. The Wayfarer.

75. Little Russian Tobacco Smokers.

Mestchersky, Arseni Ivanovitch.
76. The Narva Roads. (1886.) (Property of the Academy.)

Morozoff, Alexander Ivanovitch.
77. The Escape of Gregorie Utreprieff near the Frontier Lithuanian. (Property of the Academy.)

78. The Harvest; a copy of the Picture belonging to the Emperor.

Novoskolzeff, Alexander Nicolaievitch.
79. Head of a Negro. (Property of the Academy.)

80. The Last Minutes of the Metropolitan Phillip.

Novosoff, Vasily Ivanovitch.
81. A Free Dining-room. (Property of the Academy.)
DEPARTMENT K.—FINE ARTS.

Pasternak, Leonid.
82. Home again.

Pelevin, Ivan Andreievitch.
83. The First Born. (Property of the Academy.)

Peroff, Vasily Grigorievitch.
84. The Anglers. (1873.)

Pimenenko, Nicolay Karlovitch.
85. Easter Halloween. (Property of the Academy.)

Polenoff, Helena.
86. After the Bath.

87. Before the Examination.

Repine, Elias Evtimovitch.
88. The Cossack’s Answer. (Property of the Academy.)

Savinsky, Vasile Eumentievitch.
89. The Invention of the Sick Prince Poi- jarsi to accept the Command of the Army. (Property of the Academy.)

Savitzky, Constantint Appolonovitch.
90. For Christ’s Sake.

Sedoff, Gregory Siemenovitch.
91. Vasilisa Melientieva. (1882.)

Shishkin, Ivan Ivanovitch.
92. A Forest.

Siemiradsky, Henry Hippolytovitch.
93. Christ in the House of Lazarus. (1887.) (Property of the Academy.)

Frina. (1887.) (Property of the Emperor.)
94. Stepanoff, Alexei.

95. The Hunt.

Svertchhoff, Nikolay Egorovitch.
96. The Pony that Killed a Wolf.

Tchistiakoff, Pavel Petrovitch.

Tvorojnikoff, Ivan Ivanovitch.
98. A Lay Brother Selling Images. (1888.) (Property of the Academy.)

99. Grandmother and Grandchild. (1889.) (Property of the Academy.)

Vasilieff, Fedor Alexandrovitch.
100. After the Rain. (Property of the Academy.)

Venig, Kark Bogdanovitch.
101. A Russian Girl. (1888.) (Property of the Academy.)

Volkoff, Efim Efimovitch.
102. Morning.

Willewalde, Bogdan Pavlovitch.
103. You To-Day and I To-Morrow. (Property of the Academy.)

Zagorsky, Nicolay Petrovitch.
104. A Sore Heart. (Property of the Academy.)
105. Morning Tea.

106. Aviazovosky, Ivan Constantinovich.

The Ship “Santa Maria” on its way to America, when Columbus, during a heavy storm was surrounded by the Revolting Crew.

Columbus Landing with his suite at San Salvador.
107. Young Columbus Saving himself on the Mast of a Mercantile ship, set on fire by a Venetian Galley, off the Shores of Portugal.
108. The Farewell of Columbus in Palos, before going to Sea.
109. The Arrival of Columbus’ Flotilla on the American Shore.
110. Naples, By Moonlight.
111. The Gondola. (In Venice.)
112. Saving Himself in a Boat.
114. Yalta in the Morning.
115. A Storm on the Crimean Coast.
116. A Street in Bakhchisaray. (The Capital of Crimea, during the dominion of the Tartars.)
117. A Boat in a Storm.
118. A Lantern in the Sea of Marmora.
119. Constantinople.
120. The Breakers on the Sea of Azof.
121. The Breakers on the Black Sea Coast.
122. Yalta at Night.
123. Environs of Malaga.
124. An Italian Girl. (1884.)

GROUP 141.

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128. After the Storm.
129. Evening.

GROUP 145.

Antique and Modern Carvings.

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130. The Dying Hyacinthe. (Wood Carving.)
SWEDEN.

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2. "Sensitiva." 820
Börjesson, Prof. John, Stockholm.
3. The Brothers. (Bronze group.) 822
4. Carl von Line. (Plaster relief.) 820
5. "1779." (Marble.) 820
6. Blindman's Buff. (Bronze vase.) 822
Hasselberg, Per, Stockholm.
7. The Snowdrop. (Plaster statue.) 820
8. The Frog. (Plaster statue.) 820
9. The Water Lily, (Plaster statue.) 820
10. Louis de Geer. (Plaster bust.) 820
11. Prince Eugen. (Bronze bust.) 822
12. Olof Wijk. (Bronze statue.) 822
13. P. Forstenberg. (Bronze statue.) 822
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14. Relief for the Decoration of a Mantelpiece. 821
15. "Mama." (Marble statue.) 820
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16. The Lion of Gothia. (Plaster.) 820
17. John Ericsson. (Plaster statue.) 820
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Arborelius, O., Stockholm.
22. Landscape in Dalecarlia.
23. Hay Carting in Dalecarlia.
24. Sunday Morning in Dalecarlia.
25. Bridal Procession in Dalecarlia.
Beer, A., Stockholm. (Swedish Pavilion.)
Behm, Wilhelm, Gnesta.
27. Birch Grove, Södermanland.
29. Landscape, River Valley of the Indalsfjärd.
Berg, R., Stockholm.
30. Portrait of Miss A. B.
31. An Old Song.
32. Landscape.
Björck, O., Stockholm.
33. Portrait of Baron J. M. Nordenfalk.
34. Interior of Cow-house.
35. Portrait Study.
Bonnier, Eva, Stockholm.
36. My Housekeeper.
37. Music.
38. Portrait; Mr. H. L.
Borg, Å., Stockholm.
39. Scene from Fair in Orebro.
40. Elk Hunt.

Bredberg, Mina, Stockholm.
41. Portrait of a Russian Artist.
Chadwick, E., Stockholm.
42. Carmencita.
43. Rainbow.
44. "My Boy."
Ekström, P., Segerstad, Öland.
45. Moonrise, Särö.
47. Dawning, Normandy.
48. Landscape, Marsstrand.
49. December Midday Sun, Oland.
50. Autumn, Oland.
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51. Moonrise.
52. H. R. H. Prince Eugen of Sweden and Norway.
53. The Forest.
54. Autumn Day.
55. The Temple.
Feychtling, H., Stockholm. (Swedish Pavilion.)
56. Regatta in the Archipelago.
Genberg, A., Stockholm. (Swedish Pavilion.)
57. View of the Tottehummeln, Areskutan, Sweden.
58. Church of Are, in Jemtland, Sweden.
59. Beggar.
60. Evening.
61. "Bijou and Honore."
Hermelin, O., Baron, Österby, Torshälla.
62. Autumn.
63. Twilight in May.
Jungstedt, A. Stockholm. (Swedish Pavilion.)
64. Portrait of H. R. M., the King of Sweden.
65. Railroad Laborers.
Kayser, Elisabeth, Stockholm.
66. Peasant Woman, Normandy.
Kindborg, J., Stockholm.
67. Landscape, Wermland, Sweden.
Kreuger, Nils, Warberg.
68. Summer Evening.
69. Street View from Warberg.
70. Evening.
71. Winter Idyll.
72. Evening.
Kronberg, Julius, Professor, Stockholm.
73. Portrait of Charles XII.
Kulle, J., Stockholm.
74. Scanian Peasant's Cottage.
Larsson, Carl, Gothenburg.
75. My Family.
76. "Ulfa" in the Sunset.
77. A Swedish Fairy Tale.
Liljefors, Bruno, Upsala. (Swedish Pavilion.)
78. Bear Hunting.
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DEPARTMENT D.—FISH AND FISHERIES.

Soon after the organization of this department great interest was manifested in this phase of the Exposition by those engaged in fish culture in this and other countries, and by those concerned in carrying on the commercial fisheries of the world. In nearly all sections of this country where fisheries are prosecuted committees were appointed to take such measures as are necessary for the promotion of fishery exhibits. Many of the State Fish Commissions prepared displays illustrative of their functions and the result of their efforts, while in some of the foreign countries special appropriations were made to enable the proper officials to prepare and bring to Chicago exhibits of fisheries and fish culture.

The Fisheries Department is intended to admit of the display, in the buildings erected for the purpose, of materials and collections illustrative of the commercial fisheries, fish and scientific interest in the animals and objects and department to illustrate and most graphic condition of the fisheries and also their the past four hundred practically side by side methods and uncivilized man specialized apparatus of fishing which intelligence of modern produced. Fish are shown in various, by casts, as men, mounted, are included fish—birds that have been the fisheries as pleys of food and are enemies to fish, tured, such as frogs and other reptiles, are represented.

For instance: Group 38 embraces ten classes, in which are included materials and apparatus employed in sea fishing and angling. This group contains the history of fishing, fishery laws and legislation, fishery commerce, implements used in ancient times, or reproductions of the same; reports and literature upon fish and fisheries, as well as statistics. Gear used in the trawl, herring, long line, hand line and all modes or systems of fishing; lines and rigged gear are included in this group. Other classes of the same group embrace all known apparatus and appliances employed in the prosecution of the commercial sea fisheries, and also those used by anglers in sport fishing for marine species. Vessels and boats used for conducting fishery operations or for angling are provided for in the last class of this group.

The next group, No. 39, comprehends fresh water fishing and angling. Under its several classes are exhibited nearly all of the interesting objects pertaining to the gentle art of angling, although its scope also embraces such apparatus and appliances as are used in the commercial fisheries prosecuted in fresh water.
The products of the fisheries, the machinery and appliances used in their manipulation or preparation, are classed in group numbered 40. This embraces models of fish-curing establishments and canneries, as well as methods, models, and other forms for representing appliances for drying, curing, salting, smoking, tinning, cooking and treating or preserving fishery products.

Primary and secondary products of all kinds, as well as tinned goods, are also embraced within this group. Fish preservatives, antiseptic and otherwise; oils obtained from marine animals; manures, guanos, fertilizers, as well as other classes of products, are arranged under this group.

Pearl shells from the ocean and rivers; mother of pearl, in the rough or manufactured; pearls as gems; sponges, corals, and all parts and products from aquatic animals, whether for purposes useful or ornamental, are embraced in this group.

The history of fish culture, and everything pertaining to the artificial propagation, acclimatization and transportation of aquatic animals are exhibited under group 41. This group is very comprehensive in scope, and embraces everything appertaining to investigations and results of experiments in the direction of utilizing the waters as a means of food supply.

Approaching the Fisheries Building from either front one is impressed with its beauty and general grace of construction. The tall dome towers high above the gables of the main structure, while the small turrets that adorn the dome and main entrances appear in pleasing contrast with the red-tiled roof, columns, and arches. Flanked on both the east and west by small pavilions and connecting arcades, the whole presents an architectural view of great magnificence. The infinite detail of fishes and other aquatic animals with which the columns, arches and friezes are decorated in bas-relief, is gratifying to the eye, and the skill and ingenuity displayed by the ornamentation are as remarkable for originality as for fitness.

Entering the building from the north the eye is immediately attracted to the display of Mexico on the right hand. Passing to the side aisle and turning to the right brings to full view the Russian collection, unique in many ways and with a wealth of caviare. The Norwegians show many kinds of sea fish, from the dry cod of the Lofotens to the spiced anchovies of Bergen. Here are also to be found a number of full-sized fishing boats, with their oars and lines.

Mexico, Russia, and Norway occupy the whole northwestern quarter of the Fisheries Building. Passing these and crossing the aisle to the south side the first display met is that of Great Britain, which embraces an attractive assortment of angling paraphernalia. The display is not large but choice. France, Australia, and Canada follow next in order, and the attention is arrested by the fine group of seals in the New South Wales display. The full-rigged, sharp-tern fishing boat, a duplicate of the one presented to the Prince of Wales ten years ago, occupies a conspicuous position in the Canadian section. The exhibits of Japan and the Netherlands are in the northeastern quarter of the building. Here the odd-shaped boats, together with implements and products of the Japanese fisheries, are displayed with much taste in decorative effect.

The Dutchman is present with a beautiful model of a North Sea herring lugger, one-seventh actual size, with a goodly assortment of Holland herring. In the eastern pavilion is located the fresh-water aquaria. Leaving the aquaria steps are retraced to the main building, through the western arcade to the angling pavilion. Here is the angler's paradise—an array of rods, reels, flies, hooks, landing nets, gaffs, boats, clothing, wading boots, etc., is presented in great profusion. Brazil has a section in the building where is arranged its collection of aquatic fauna, its fishing boats and apparatus of capture. A part of the building is used by Pennsylvania and Wisconsin, in which is shown the work accomplished in fish culture.

Ten of the individual States of the Union show collective exhibits of the fisheries of their waters. Another interesting feature is the weather-worn fishing
boat used by the famous Ida Lewis—the American Grace Darling—in her heroic life-saving deeds.

The Fisheries Building is a large central structure with two smaller polygonal buildings connected with it on either end by arcades. The extreme length of the building is 1,100 feet, and the width 200 feet. It is located to the northward of the United States Government Building. In the central portion is the general fisheries exhibit. In one of the polygonal buildings is the angling exhibit, the aquarial and fish cultural displays of Pennsylvania and Wisconsin; exhibits of mounted and cast specimens of fish from Ohio and Missouri; fish paintings from Vermont and the Hawaiian islands, and the interesting collections from Brazil and other countries, and the other is devoted entirely the aquaria. The exterior of the building is Spanish-Romanesque, which contrasts agreeably in appearance with that of the other buildings. To the close observer the exterior of the building can not fail to be exceedingly interesting, for the architect exerted all his ingenuity in arranging innumerable forms of capitals, modillions, brackets, cornices and other ornamental details, using only fish and other sea forms for his motif of design. The roof of the building is of old Spanish tile, and the side walls of pleasing color.

The total amount of floor area in the main building is 55,536 square feet; in addition there is a gallery thirty feet wide, running the entire length and breadth of the structure, and on both sides. The gallery space amounts to 27,120 square feet. At the wall side of the gallery floor, the gabled roof leans somewhat, and, together with the roof braces, affords pretty little booths, or bays. These bays are considered the most effective arrangement of space for exhibits, and therefore it is a matter for congratulation that the requirements of construction do not in any manner conflict with the needs of the exhibitor.

In the center of the polygonal building is a rotunda sixty feet in diameter, in the middle of which is a basin or pool twenty-six feet wide, from which rises a towering mass of rocks, covered with moss and lichens. From clefts and crevices in the rock crystal streams of water gush and drop to the masses of reeds, rushes and ornamental semi-aquatic plants in the basin below. In this pool gorgeous gold fishes, golden ides, golden tench and other fishes disport. From the rotunda one side of the larger series of aquaria may be viewed. These are ten in number, and have a capacity of 7,000 to 27,000 gallons of water each. Passing out of the rotunda, a great corridor or arcade is reached, where on one hand can be viewed the opposite side of the series of great tanks, and on the other a line of tanks somewhat smaller, ranging from 750 to 1,500 gallons each in capacity. The corridor or arcade is about fifteen feet wide. The glass fronts of the aquaria are in length about 575 feet and have 3,000 square feet of surface. The total water capacity of the aquaria, exclusive of reservoirs, is 18,725 cubic feet, or 140,000 gallons. This weighs 1,192,425 pounds, or almost 600 tons. Of this amount about 40,000 gallons is devoted to the marine exhibit. In the entire salt-water circulation, including reservoirs, there are about 70,000 gallons. The pumping and distributing plant for the marine aquaria is constructed of vulcanite. The pumps are in duplicate, and each has a capacity of 3,000 gallons per hour.

The government aquaria in the annex of the Fisheries Building have been converted into picturesque combinations of water and rock, where live fish are made to feel quite at home in congenial surroundings. In these aquaria trout, carp, golden ides, and gold fish disport. United States Fish Commissioner McDonald in speaking of the government exhibit said:

For three months we experimented with evaporating sea water and using the material for shipment to Chicago in order to avoid sending water so far inland. For some mysterious reason the revamped sea water we thus obtained would not do, and the fish died. We have found that by mixing a brine made from Turks' Island salt with natural sea water, half and half, fish got along nicely in the combination. This is what we use in the aquaria. In all we have about 70,000 gallons of sea water for the salt water fish. As it is something we can not afford to waste, our arrangements for its purification are complete. It is conducted from the aquaria in rubber tubes to the filter, which is located in the cellar. This consists of stone, gravel, and sand made
in strata, as in natural soil. The water comes from the aquaria into the top of the filter and is drawn off from the bottom after it percolates through the sand and gravel. It then runs off into a cistern with a capacity of 60,000 gallons. A duplicate set of pumps, run by electric dynamos, drives the water again to the reservoir in the top of the building. From there it runs back into the aquaria, entering through a jet just above the surface. The entering stream carries enough air with it to aerate the water and give the fish air. In the filter the top layer of sand will be changed frequently. With our fresh water fish lake water will do fairly well. It is not clear enough and must be filtered carefully. No attempt will be made to save it as with sea water.

The government aquaria are in a circular building nearly 100 feet in diameter. A row of aquaria lines the outer walls with the space broken only at the doors. The effect as one passes through the aisle is as if he were walking on the bottom of a lake with the waters held back by a heavy plate glass. The inner row of aquaria is 12 feet wide and in the center of the building a mound of aquatic and semi-aquatic plants.

On the inner row is the big aquarium for the Mississippi river. It is 72 feet long, 12 feet wide, and 5 feet deep. A submerged bank, such as is so often seen in western rivers, rises from the bottom of sand and gravel. Nearly every variety of fish found in the Mississippi valley is there. Catfish, eighty pounds in weight and seven inches between the eyes, and sturgeon, five, six, and seven feet long, are in the aggregation, with pickerel, outclassing the record, for company. A series of aquaria, showing all varieties of trout and salmon, extends along the south side of the building.

The fish from the great lakes have been gathered at the Put-in Bay Station on Lake Erie, and include sturgeon, whitefish, perch, bass, and herring, as the leading varieties. There are 100 varieties of fish and as many species of invertebrates.

In June the government fish car will be sent to Seattle, Wash., and will bring as good a showing of Pacific coast fish as can be carried so far in the car. The main varieties will be the Chinook and steelhead salmon and the varied trouts of the West. There is in reality little difference between the leading varieties of the two coasts.

Until the natural warmth of the water here reaches 60 degrees no fish will be brought from the Gulf of Mexico. In midsummer the trouble will be that the water will be too warm, and artificial means of cooling it will be used. Many salt-water varieties do not live long in aquaria, even under the most favorable conditions, and these must be replenished by new shipments during the progress of the Exposition.

Next to the west door of the annex is an aquarium radiant with bright colors of anemones, growing over the grottoes. Algæ of every line grow there. It is likewise the home of star fish and sea urchins. The microscopic algæ, which are propagated as food for the anemones, prevent the water being drawn off to put through the filter. To aerate it an automatic contrivance is used which forces the air into the bottom of the aquarium, it passing through the water in small bubbles.
KEY TO INSTALLATION.

The design of the Fish and Fisheries Building differs from that of all the other department buildings, the main structure being circular in form and ornamented with two wings known as polygonal buildings. The ground floor of the central building is laid off into spaces for exhibits, indicated by numbers and the cross sections lettered, which by tracing the lines from the letter to the number, as for instance, A-4, will be easily found. By referring to the name of the exhibitor, or the name of the country or State, and then looking on the diagram the space occupied by the exhibit is indicated.
GROUND FLOOR

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Fish and Fisheries Building

MAIN BUILDING

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ANGLING PAVILION

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FISH AND FISHERIES BUILDING,

WORLD'S COLUMBIAN EXPOSITION.
CLASSIFICATION.

FISH AND FISHERIES DEPARTMENT (D).

FISH, FISHERIES, FISH PRODUCTS AND APPARATUS OF FISHING.

GROUP 37.

FISH AND OTHER FORMS OF AQUATIC LIFE.

Class 230. Aquatic life. Scientific collections and literature. Works on aquatic zoology and botany. Maps illustrating geographical distribution, migration, etc., of fishes and other aquatic animals. Specimens and representations illustrative of the relations between extinct and existing forms of life. Specimens (marine and fresh water), fresh, stuffed or preserved, in alcohol or otherwise, casts, drawings and representations of objects named in the following classes.

Class 240. Algae, genera and species, with localities.
Class 241. Sponges, corals, polyps, jelly-fish.
Class 242. Entozoa and epizoa.
Class 243. Oysters, clams and mollusca of all kinds; shells.
Class 244. Star-fishes, sea-urchins, holothurians.
Class 245. Worms used for bait, or noxious; leeches, etc.
Class 246. Crustacea of all kinds.
Class 247. Fishes, living or preserved, or represented by casts, drawings or otherwise.
Class 248. Reptiles, such as tortoises, turtles, terrapins, lizards, serpents, frogs, newts.
Class 249. Aquatic birds.
Class 250. Aquatic mammalia, otters, seals, whales, etc.
Class 251. Characteristic plant and animal life at great depths.
Class 252. Fishing grounds.

GROUP 38.

SEA FISHING AND ANGLING.


Class 254. Gear of every description and of all nations, used in trawl, herring, long line, hand line and every other mode or system of fishing; fishing lines and rigged gear.

Class 255. Fish hooks, jigs and drails.
Class 256. Fishing rods and reels for lines and nets.
Class 257. Nets and sienes, rakes and dredges, and materials used in their manufacture.
Class 258. Fish traps, weirs and pounders.
Class 259. Fishing stations and their outfit.
Class 260. Knives, gaffs and other apparatus.
Class 261. Illustrations of special fisheries. The whale and seal, cod, mackerel, halibut, herring, haddock, pollock, menhaden, sword-fish, bluefish, oyster, sponge and other sea fisheries.

Class 262. Fishing boats and vessels.

GROUP 39.

FRESH WATER FISHING AND ANGLING.


Class 264. Salmon nets and fixed appliances for catching salmonidæ in all their varieties.
Class 265. Salmon rods, reels, lines, artificial flies and baits, gaffs, spears, creels, etc.
Class 266. Bass, pike, perch rods, reels and tackle, artificial spinning baits, etc.
Class 267. Traps, nets, bucks, wheels, and all kinds of apparatus for catching eels, lampreys, etc.

Class 268. Angler's apparel of every description.
Class 269. The angler's camp and its outfit.

Class 270. Illustrations of special fresh water fishery. Shad and alewife, sturgeon, eel, salmon, whitefish, the Great-Lake fisheries, etc.
GROUP 40.

PRODUCTS OF THE FISHERIES AND THEIR MANIPULATION.

(See also, in part, Groupe 6 and 17.)

Class 271. Models of fish-curing and canning establishments. Methods of, and models, and other representations of any appliances for drying, curing, salting, smoking, tinning, cooking, etc.

Class 272. Fish, dried, smoked, cured, salted, tinned or otherwise prepared for food.

Class 273. All products prepared from fish, such as oils, roes, isinglass, etc.

Class 274. Antiseptics suitable for preserving fish for food.

Class 275. Oils, manures and other products prepared from fish.

Class 276. Methods of, and models, and other representations of appliances for preparing oils and manures from fish.

Class 277. Sea and fresh water pearl shells, mother-of-pearl, manufactured; pearls, sorted.

Class 278. Preparation and application of sponges, corals, pearls, shells and all parts and products of aquatic animals, etc., to purposes useful and ornamental, with specimens.

Class 279. Appliances for carrying fish and for preserving fish during transport or otherwise, and models of the same. Models of fish markets and appliances connected with the same.

GROUP 41.

FISH CULTURE.

Class 280. The history of fish culture.

Class 281. Hatching, breeding and rearing establishments, including oyster and other shellfish grounds.

Class 282. Apparatus and implements connected with fish culture and for transporting fish and fish ova. Food for fry.

Class 283. Representations illustrative of the development and progressive growth of fish.

Class 284. Models and drawings of fish-ways and fish ladders.


Class 286. Processes for rendering streams polluted by sewerage and chemical or other works innocuous to fish life. (Illustrated by models and drawings.)

Class 287. Physico-chemical investigation into those qualities of salt and fresh water which affect aquatic animals; investigation of the bottom of the sea and of lakes, shown by samples; aquatic plants in relation to fishing, etc.; researches into the aquatic fauna (animals of the several classes preserved in alcohol, or prepared, etc.); apparatus and implements used in such researches.


Class 289. Statistics of the results of fish culture. Specimens of fish artificially propagated or introduced.
Department D.--Fish, Fisheries, Etc.

UNITED STATES.

GROUP 37.

Fish and Other Forms of Aquatic Life.
1. Aiken, Walter, Franklin, N. H. Paintings of fishes. Pav. F-17 24
   a Sponges. 241
   b Shells with sponge growths. 243
3. Gloucester Board of Trade, Gloucester, Mass. Fishes and other forms of aquatic life illustrated by preserved specimens, casts, drawings, etc. F-23 239
   a Florida sponges and corals. 241
   b Florida shells (Mollusks). 243
8. Minnesota, State.
   a Maps showing distribution of species of fishes. O-2 239
   b Specimens of Minnesota fishes. 247
   c Aquatic birds destructive to fishes. 249
    a Cast of swordfish; frozen fishes. 247
    b Charts of fishing grounds. 252
    a Sea-weed (Algae). 240
    b Shells (Mollusks). 243
    c Star fish-es, sea-urchins, etc. 244
    d Crustaceans. 246
    e Mounted and dried fishes. 247
    f Turtles. 248
15. Seidler, Henry, Chicago.
    a Storm worm. Gal. F-7 245
    b Shrimp. 246
    c Preserved fish specimens. 247
    a Maps and charts. Main M-25 239
    b Clams. 243
    c Star-fishes. 244
    d Crabs. 246
    e Fishes; fresh, mounted, cast and alcoholic specimens. 247
    f Skeleton of humpback whale. 250
17. Wisconsin, State.
    a Aquatic plants (Algae). Pav. E-25 240
    b Shrimps, etc. (Crustacea). 246
    c Aquarial exhibit of fishes. 247

GROUP 38.

Sea Fishing and Angling.
    a Nets, seines and material. B-20 257
    b Fish traps, ponds, etc. 238
19. Ams, Max, New York.
    a Mounted Atlantic sturgeon. K-20 247
    b Sturgeon gill nets. 252
    c Boats for sturgeon fishery. 267
23. Gloucester Board of Trade, Gloucester, Mass.
    a Reports, statistics and literature, showing progress of the Gloucester fisheries. F-23 253
    b Fishing gear. 254
    c Fish-hooks, jigs and drails. 255
    d Nets, seines, rakes and dredges. 257
    e Fish-traps, weirs and pounds. 258
    f Fishing stations and outfits. 259
    g Fish-knives, gaffs, etc. 260
    h Illustrations of special fisheries. 261
    i Fishing boats and vessels. 262
    a Lobster gear. Main B-9 254
    b Lobster traps. 258
    c Wharf, building and cars for lobster fishing. 262
    d Lobster boat. 262
25. Minnesota, State.
    a Photographs and drawings illustrating fisheries. O-2 253
    b Fishing canoe with Indians. 262
26. Mumford, Wm. B., Kansas City, Mo. Fish trap. Gal. F-6 258
    a Models of schooners, dory, etc. B-5 262
    b Gear and lines. 254
    c Mackerel jigs. 255
GROUP 39.

Fresh Water Fishing and Angling.

   a Combined gaff-hook and landing-net. Pav. C-6  265
   b Rod, ferrule joint.  
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42. Egge, M. J., Haugesund. Cured herring.

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<td>Eitaro Sakata, Nagasaki</td>
<td>Tortoise</td>
</tr>
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<td>3.</td>
<td>Eizo Ezaki, Nagasaki</td>
<td>Tortoise</td>
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<tr>
<td>4.</td>
<td>Hambei Wada, Osaka</td>
<td>Kanten (edible substances prepared from sea-weed)</td>
</tr>
<tr>
<td>5.</td>
<td>Hikobei Matsushita, Osaka</td>
<td>Kanten (edible substances prepared from sea-weed)</td>
</tr>
<tr>
<td>6.</td>
<td>Hikozyuro Saito, Osaka</td>
<td>Kanten (edible substances prepared from sea-weed)</td>
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<td>Ichiisaburo Ota, Nagasaki</td>
<td>Shells</td>
</tr>
<tr>
<td>8.</td>
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<td>Junichiyo Ezawa, Chiba</td>
<td>Sea-ears</td>
</tr>
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<td>10.</td>
<td>Kambei Takagi, Tokyo</td>
<td>Shells</td>
</tr>
<tr>
<td>11.</td>
<td>Kanten Co., Hyogo</td>
<td>Kanten (edible substances prepared from sea-weed)</td>
</tr>
<tr>
<td>12.</td>
<td>Katsuma Doi, Nagasaki</td>
<td>Shells</td>
</tr>
<tr>
<td>13.</td>
<td>Kiichiyo Ishikawa, Shizuoka</td>
<td>Tsunomata (a sea-weed)</td>
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<td>Kanten (edible substances prepared from sea-weed)</td>
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<td>20.</td>
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<td>Kanten (edible substances prepared from sea-weed)</td>
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<td>Tortoise</td>
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<td>Bunshiro Shibata, Osaka</td>
<td>Isinglass</td>
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<td>Chotaro Murayama, Hokkaido</td>
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<td>36.</td>
<td>Eizo Asari, Hokkaido</td>
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<td>Gihei Takahashi, Hokkaido</td>
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<td>40.</td>
<td>Heishiro Watanabe, Hokkaido</td>
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<td>Herring's lees.</td>
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<td>42</td>
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<td>Aomori</td>
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<td>43</td>
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<td>Hokkaido</td>
<td>Dried, cured and canned fish.</td>
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<td>45</td>
<td>Koho Shimomura</td>
<td>Hokkaido</td>
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<td>46</td>
<td>Matsuzo Murata</td>
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<td>47</td>
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<td>48</td>
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<td></td>
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<td>49</td>
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<td>Yamaguchi</td>
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<td>50</td>
<td>Shimezo Fukumoto</td>
<td>Shizuoka</td>
<td>Salted mackerel.</td>
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<td>51</td>
<td>Shizuoka Fertilizer Co.</td>
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<td>52</td>
<td>Teijiro Nashikawa</td>
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<td>Zempachi Muramatsu</td>
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<td>Smoked mackerel.</td>
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CHAINS
Sterling Silver Center Gold, Gold Filled, Rolled Plate, Seamless Rolled Plate, Sterling Silver and Pure Aluminum.

Columbia.
Gold Filled
Assay 1-10 Pints
Warranted 20 years
Gold Soldered

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GENTS' VEST
DICKENS
PONIES
FOBS
GUARDS

For
Chapped Hands,
Face and Lips,
Tan, Freckles
And Sunburn.

CHAINS
Regular Quality
Seamless.

Regular Quality Seamless.

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Tyrone, Anderson County, Ky.

Waterfill & Frazier
Old Fashion Hand Made, Sour Mash Whiskey.

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James Levy & Bro., Cincinnati, O., Controllers.
GEORGE CRADOCK & CO.,

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1035
KEY TO INSTALLATION.

The exhibits in the Woman's Building occupy a ground floor and gallery. Each foreign country, the collective exhibits of the United States, and the respective departments are installed by sections, as indicated by the plans.
CLASSIFICATION.

WOMAN'S BUILDING.

DEPARTMENT A.

AGRICULTURE, FOOD AND ITS ACCESSORIES, FORESTRY AND FOREST PRODUCTS, MACHINERY AND APPLIANCES.

GROUP 2.

BREAD, BISCUITS, PASTES, STARCH, GLUTEN, ETC.


GROUP 7.

THE DAIRY AND DAIRY PRODUCTS.

Class 44. Dairy fittings and appliances—churn for hand and power, butter workers, can and pails, cheese presses, vats and apparatus.

GROUP 8.

TEA, COFFEE, SPICES, HOPS, AND AROMATIC AND VEGETABLE SUBSTANCES.

Class 45. Tea, coffee, cocoa, chocolate and substitutes.

GROUP 9.

ANIMAL AND VEGETABLE FIBRES.

Class 53. Cotton on the stalk—its several varieties; long and short staples, shown by living examples, by engravings, photographs, etc.
Class 59. Hemp, flax, jute, ramie, and other vegetable fibres not enumerated, in primitive forms and in all stages for spinning.
Class 61. Silk worms, silk in the cocoons, apparatus and appliances used in silk culture.

GROUP 18.

FATS, OILS, SOAPS, CANDLES, ETC.

Class 97. Candles, etc.

DEPARTMENT B.

HORTICULTURE, VITICULTURE, POMOLOGY, FLORICULTURE, ETC.

GROUP 21.

POMOLOGY, MANUFACTURED PRODUCTS—METHODS AND APPLIANCES.

Class 139. Dried and evaporated apples, peaches, pears and other fruits. Prunes, figs, dates, etc., in glass or boxes.
Class 140. Fruits in glass or cans, preserved in syrup or alcohol.
Class 141. Jellies, jams, marmalades.
Class 143. Cider, perry, vinegar and expressed juices of berries.

GROUP 22.

FLORICULTURE.

Class 160. Ferns.
Class 164. Native wild plants and flowers.
Class 165. Ornamental grasses and reeds.
Class 167. Cut flowers. Floral designs, pressed flowers, leaves, sea-weeds and bouquets
Class 169. Receptacles for plants, flower pots, plant boxes, fern cases, tubs, jardinieres.
Class 171. Miscellaneous.

GROUP 23.

CULINARY VEGETABLES.

Class 176. Vegetables dried or in cans or glass.
Class 177. Pickles, champignons, truffles, chutney, mustard, etc.
DEPARTMENT C.

LIVE STOCK—DOMESTIC AND WILD ANIMALS.

GROUP 34.

POULTRY AND BIRDS.

Class 229. Pheasants and other ornamental birds.
Class 230. Birds of all countries, alive and as stuffed specimens. Taxidermy methods and appliances.

GROUP 36.

WILD ANIMALS.

Class 236. Animals of all countries, alive and as stuffed specimens.

DEPARTMENT D.

FISH, FISHERIES, FISH PRODUCTS AND APPARATUS OF FISHING.

GROUP 37.

FISH AND OTHER FORMS OF AQUATIC LIFE.

Class 240. Algae, genera and species, with localities.

GROUP 38.

SEA FISHING AND ANGLING.

Class 257. Nets and seines, rakes and dredges, and materials used in their manufacture.

DEPARTMENT E.

MINES, MINING AND METALLURGY.

GROUP 42.

MINERALS, ORES, NATIVE METALS, GEMS AND CRYSTALS—GEOLoGICAL SPECIMENS.

Class 290. Collections of minerals systematically arranged.
Class 291. Collections of ores and the associated minerals. Diamonds and gems, rough, uncut and unmounted. Crystallography. Specimens illustrating the formations of the earth, systematically arranged.

GROUP 44.

BUILDING STONES, MARBLES, ORNAMENTAL STONES AND QUARRY PRODUCTS.

Class 296. Building stones, granites, slates, etc., rough hewn, sawed or polished—for buildings, bridges, walls, or other constructions, or for interior decoration, or for furniture.

Marble, white, black or colored—stalagmitic marbles, onyx, brecciated marbles, silicified wood, agates, jaspers, porphyries, etc., used in building, decoration, statuary, monuments, vases or furniture.

GROUP 45.

GRINDING, ABRADING AND POLISHING SUBSTANCES.

Class 297. Grindstones, hones, whetstones, grinding and polishing materials, sand, quartz, garnet, crude topaz, diamond, corundum, emery in the rock and pulverized, and in assorted sizes and grades.

GROUP 47.

LIMESTONE, CEMENTS AND ARTIFICIAL STONE.

Class 309. Lime, cement and hydraulic cement, raw and burned, accompanied by specimens of the crude rock or material used; also artificial stone, concrete, beton.

Specimens of lime mortar and mixtures, with illustrations of the processes of mixing, etc. Hydraulic and other cements.

GROUP 67.

HISTORY AND LITERATURE OF MINING AND METALLURGY.

Class 412. Mine engineering—surface and underground surveying and plotting, projection of underground work, location of shafts, tunnels, etc.; surveys for aqueducts and for drainage.
Boring and drilling rocks, shafts and tunnels, etc.; surveys for aqueducts and for ascertaining the nature and extent of mineral deposits.
Construction—sinking and lining shafts by various methods, driving and timbering tunnels and the general operations of opening, stopping and breaking down ore; timbering, lagging and masonry.
Hoisting and delivering at the surface, rock, ore or miners; pumping and draining by engines, buckets or by adits.
Ventilating and lighting.
DEPARTMENT F.

MACHINERY.

GROUP 72.

MACHINERY FOR THE MANUFACTURE OF TEXTILE FABRICS AND CLOTHING.

Class 436. Machines for the manufacture of woolen goods.

GROUP 77.

MISCELLANEOUS HAND-TOOLS, MACHINES AND APPARATUS USED IN VARIOUS ARTS.

Class 484. Machines for ironing, drying, scouring and laundry work generally.

GROUP 78.

MACHINES FOR WORKING STONE, CLAY AND OTHER MINERALS.

(Class see also Department E.)

Class 492. Brick, pottery and tile machines. Machines for making artificial stone.

DEPARTMENT G.

TRANSPORTATION—RAILWAYS, VESSELS, VEHICLES.

GROUP 80.

RAILWAYS, RAILWAY PLANT AND EQUIPMENT.

Class 500. Railway equipment—locomotives for passenger and freight service. Locomotive appliances—head lights, bells, whistles, brake valves and apparatus, etc. Plans, drawings and photographs of locomotives and locomotive shops. Passenger cars—mail, baggage and express coaches, drawing-room, parlor, dining, officers' and private cars, etc. Passenger car furnishings and appliances. Freight cars—box, caboose, stock, horse, milk, refrigerator and other varieties. Working cars—sweeping, ditching, wrecking, etc.; snow plows, hand, inspection, push and velocipede cars, baggage barrows and trucks. Freight car appliances of all descriptions. Plans, drawings and photographs of ears and car works.

GROUP 81.

STREET CAR AND OTHER SHORT LINE SYSTEMS.

Class 506. Cars for street railways or tramways operated by horse-power or other means of propulsion not specified. Construction. Equipment and supplies. Methods of operation.

GROUP 83.

VEHICLES AND METHODS OF TRANSPORTATION ON COMMON ROADS.

Class 523. Harness, saddlery, robes, whips and accessories of the stable.

GROUP 84.

AERIAL, PNEUMATIC AND OTHER FORMS OF TRANSPORTATION.

Class 527. Passenger elevators and lifts.

GROUP 85.

VESSELS, BOATS—MARINE, LAKE AND RIVER TRANSPORTATION.

Class 534. Protection of life and property and communication at sea. Harbors; light-houses; buoys and similar aids to navigation and all pertaining thereto; life-saving service, boats, rafts, belts, etc.; precautions against fire aboard ship and devices for extinguishing it; storm and coast signals; marine signals. Models, plans, samples, etc.

DEPARTMENT H.

MANUFACTURES.

GROUP 87.

CHEMICAL AND PHARMACEUTICAL PRODUCTS—DRUGGISTS' SUPPLIES.

Class 547. Drugs and pharmaceutical preparations and compounds.

Class 549. Flavoring extracts, essences, essential oils, toilet soap, perfumery, pomades, cosmetics, etc.

GROUP 89.

TYPOWRITERS, PAPER, BLANK BOOKS, STATIONERY.

Class 563. Wall papers, oil papers.

Class 564. Typewriters, stationery and stationers' goods; ink-stands, weights, rules, pens, pencils, filing-cases, letter presses, etc.
GROUP 90.
FURNITURE OF INTERIORS, UPHOLSTERY AND ARTISTIC DECORATION.
Class 566. Tables for various purposes—billiard, card, dining, etc.
Class 567. Suites of furniture for the hall, parlor, drawing-room, library, dining-room and for the bed-chamber.
Class 568. Upholstery for windows, doors; curtains, portieres, etc.
Class 572. Artistic furnishing, illustrated by completely furnished apartments, with selections of furniture and various objects of adornment from other groups.

GROUP 91—CERAMICS AND MOSAICS.
FOR CLAYS AND OTHER MATERIALS SEE GROUP 46.
Class 576. Earthenware, stone, china and semi-porcelain ware, faiience, etc., with soft glazes and with high-fire, feld-spathic glazes and enamels.
Class 577. Porcelain with white or colored body, painted, incised or pate-sur-pate decoration.
Class 578. Tiles—plain, encaustic and decorated tiles, bosses, tessare, etc., for pavements, mural and mantel decoration, etc.
Class 579. Mural decoration; reredos and panels; borders for fireplaces and mantels.

GROUP 92.
MARBLE, STONE AND METAL MONUMENTS, MAUSOLEUMS, MANTELS, ETC.—CASKETS, COFFINS AND UNDERTAKERS' FURNISHING GOODS.
Class 582. Marble and stone fountains, balustrades and miscellaneous ornaments.
Class 583. Marble, stone and metal mantels and ornaments.

GROUP 93.
ART METAL WORK—ENAMELS, ETC.
Class 585. Art metal work; selected examples of iron forgings, bronzes, bas-reliefs, repousse and chiseled work.
Class 586. Cloisonne enamels.

GROUP 94.
GLASS AND GLASSWARE.
Class 592. Cut-glass ware for the table and various purposes. Engraved and etched glass.
Class 593. Fancy glassware—plain, iridescent, opalescent, colored, enameled, painted beaded, gilded, etc. Millefiori and aventurine glass.
Class 595. Glass mosaics, beads, spun glass and glass fabrics.

GROUP 95.
STAINED GLASS IN DECORATION.
Class 596. Civic and domestic stained glass work, panels, windows, etc.
Class 597. Ecclesiastical stained glass work.

GROUP 96.
CARVINGS IN VARIOUS MATERIALS.
Class 598. Wood carving.
Class 601. Metal carving and chiseling.

GROUP 97.
GOLD AND SILVER WARE, PLATE, ETC.
Class 607. Fancy bonbon and other spoons; miscellaneous fancy articles in silver—snuff-boxes, match-boxes cane-heads, handles, chatelaines, etc.

GROUP 98.
JEWELRY AND ORNAMENTS.
Class 612. Gold ornaments for the person, etc.
Class 613. Diamonds and various colored gems, as rubies, sapphires, emeralds, chrysoberyls, tournaiines, topazes, etc., mounted in various ornments. (For gems in the rough and unmounted in part, see Department E.)
Class 614. Agates, onyx, jasper, ornaments for the person.

GROUP 100.
SILK AND SILK FABRICS.
Class 625. Raw silk as reeled from the cocoon, thorn or twisted silks on the gum.
Class 629. Figured-silk piece goods, woven or printed. Upholstery silks, etc.
Class 630. Crapes, velvets, gauzes, cravats, handkerchiefs, hosiery, knit goods, laces, scarfs, ties, veils; all descriptions of cut and made-up silks.
Class 632. Bindings, braids, cords, galloons, ladies' dress trimmings, upholsterers' tailors', military and miscellaneous trimmings.
GROUP 101.

FABRICS OF JUTE, RAMIE AND OTHER VEGETABLE AND MINERAL FIBRES.

Class 634. Ramie and other fabrics.
Class 635. Mats and coarse fabrics of grass, etc.
Class 637. Woven fabrics of mineral origin—fine wire-cloths, sieve-cloth, wire screen, bolting cloth. (See also Group 117.) Asbestos fibre, spun and woven, with the clothing manufactured from it. Glass thread, floss and fabrics. (See also Class 986.)

GROUP 102.

YARNS AND WOVEN GOODS OF COTTON, LINEN AND OTHER VEGETABLE FIBRES.

Class 638. Cotton fabrics, etc.
Class 639. Linen fabrics—linen thread, cloths and drills, plain and mixed; napkins, tablecloths, sheetings, shirtings, etc.; cambrics, handkerchiefs and other manufactures of linen.

GROUP 103.

WOVEN AND FELTED GOODS OF WOOL AND MIXTURES OF WOOL.

Class 647. Sundries and small wares, webbings and gorings, bindings, beltings, braids galloons, fringes and gimps, cords and tassels, and all elastic fabrics, dress trimmings, embroideries, etc.
Class 649. Carpets and rugs, ingrain (two-ply and three-ply) and art carpets, tapestry, and body Brussels, tapestry velvet, Wilton or Wilton velvet, Axminster, tapestry Wilton, Mouette, ingrain and Smyrna rugs, other woolen rugs, rag carpets.

GROUP 104.

CLOTHING AND COSTUMES.

Class 653. Dresses gowns, habits, costumes.
Class 654. Hats and caps.
Class 657. Knit goods and hosiery, woven gloves, gloves of leather and skins.
Class 659. Sewing machines for domestic purposes.

GROUP 105.

FURS AND FUR CLOTHING.

Class 660. Furs and skins, dressed and tanned. Of the cat tribe, of the wolf tribe, of the weasel tribe, of the bear tribe, of the seal tribe. Fur seals—Alaska, Oregon, South Georgia, Shetland and Siberia, undressed, plucked and dyed. Hair seals, Greenland and Labrador seals, spotted seals, silver seal, harp seal, saddleback. Furs of rodent animals—squirrels, chinchilla, beaver, hares, rabbits and other fur bearing animals. Birds' skins treated as furs. Swans and swans'-down. Skins. Goose and goose-down used as swans'-down. Grebe, eider-down and penguin.
Class 661. Fur mats and carriage or sleigh robes.
Class 662. Fur clothing.

GROUP 106.

LACES, EMBROIDERIES, TRIMMINGS, ARTIFICIAL FLOWERS, FANS, ETC.

Class 664. Laces of linen and cotton, of silk, wool or mohair, made with the needle or the loom; silver and gold lace.
Class 665. Embroideries, crochet-work, etc.; needle-work.
Class 666. Artificial flowers for trimming and for decoration of apartments.
Class 667. Fans.
Class 668. Trimmings in variety, not otherwise classed. Buttons, hooks and eyes, pins and needles.
Class 669. Art embroidery and needle-work.
Class 670. Tapestries, hand-made.

GROUP 107.

HAIR WORK, COIFFURES AND ACCESSORIES OF THE TOILET.

Class 672. Hair work, as souvenirs and ornaments.

GROUP 108.

TRAVELING EQUIPMENTS—VALISES, TRUNKS, TOILET CASES, FANCY LEATHER WORK, CANES, UMBRELLAS, PARASOLS, ETC.

Class 679. Trunks of leather, paper, canvas and of wood and metal.
Class 680. Fancy bags, pouches, purses, card-cases, portfolios, pocket-books, cigar-cases, smoking-pipes, cigar-holders, etc.

GROUP 109.

RUBBER GOODS, CAOUTCHOUC, GUTTA PERCHA, CELLULOID AND ZYLONITE.

Class 683. Clothing:—Mackintoshes, capes, coats, boots, shoes, hats, etc.

GROUP 110.

TOYS AND FANCY ARTICLES.

Class 693. Automatic and other toys for the amusement and instruction of children.
Class 695. Miscellaneous fancy articles not especially classed.
GROUP 111.
LEATHER AND MANUFACTURES OF LEATHER.
Class 705. Embossed leather for furniture, wall decoration, etc. (For trunks see Class 679. For harness, saddlery, etc., see Class 523.)

GROUP 115.
HEATING AND COOKING APPARATUS AND APPLIANCES.
Class 726. Steam heaters, hot-water heaters, radiators, etc.
Class 727. Stoves for heating, cooking stoves, kitchen ranges, grills, roasting jacks, ovens, etc. Stove polish.
Class 729. Petroleum stoves.
Class 730. Kitchen utensils and other miscellaneous articles for household purposes.

GROUP 116.
REFRIGERATORS, HOLLOW METAL Ware, Tin Ware, Enameled Ware.
Class 731. Refrigerators. Soda and aerated water fountains and appliances.

GROUP 117.
WIRE GOODS AND SCREENS, PERFORATED SHEETS, LATTICE WORK, FENCING, ETC.
(See also Group 65.)
Class 738. Screens for special purposes.

GROUP 120.
PLUMBING AND SANITARY MATERIALS.
Class 753. Bath tubs, bathing appliances and attachments.
Class 755. Porcelain laundry tubs, basins, cocks, drains and other appliances.

GROUP 121.
MISCELLANEOUS ARTICLES OF MANUFACTURE NOT HERETOFORE CLASSED.

DEPARTMENT K.
FINE ARTS; PAINTING, SCULPTURE, ARCHITECTURE AND DECORATION.

GROUP 139.
SCULPTURE.
Class 820. Figures and groups in marble; casts from original works by modern artists; models and monumental decorations.
Class 821. Bas-reliefs in marble or bronze.
Class 822. Figures and groups in bronze.

GROUP 140.
PAINTINGS IN OIL.

GROUP 141.
PAINTINGS IN WATER COLORS.

GROUP 142.
PAINTINGS ON IVORY, ON ENAMEL, ON METAL, ON PORCELAIN OR OTHER WARES; FRESCO PAINTING ON WALLS.

GROUP 143.
ENGRAVINGS AND ETCHINGS; PRINTS.

GROUP 144.
CHALK, CHARCOAL, PASTEL, AND OTHER DRAWINGS.

GROUP 146.
EXHIBITS OF PRIVATE COLLECTIONS.

DEPARTMENT L.
LIBERAL ARTS—EDUCATION, LITERATURE, ENGINEERING, PUBLIC WORKS, MUSIC AND THE DRAMA.

GROUP 147.
PHYSICAL DEVELOPMENT, TRAINING AND CONDITION—HYGIENE.
Class 825. Athletic training and exercise gymnasiaums; apparatus for physical development and of gymnastic exercises and amusement; skating, walking, climbing, ball-playing, wrestling, acrobatic exercises; rowing, hunting, etc. Special apparatus for training in schools, gymnasias; apparatus for exercise, drill, etc.
Class 826. Alimentation—food supply and its distribution; adulteration of food, markets, preparation of food, cooking and serving; school kitchens and arrangements for school canteens, methods of warming children's meals, etc. Dinner-pails, or receptacles for carrying meals for school children, workingmen and others. Restaurants, dining halls, refectories, etc.
GROUP 828. Hotels, lodging-houses.
Class 831. Asylums and homes—asylums for infants and children; foundling and orphan asylums; children’s aid societies. Homes for aged men and women; for the maimed and deformed; for soldiers and sailors. Treatment of paupers; almshouses. Treatment of aborigines; Indian reservations and homes.
Class 832. Hospitals, dispensaries, etc.; plans, models, statistics. Shed hospitals for infectious fevers and epidemic diseases; tent hospitals; hospital ships; furniture and fittings for sick-rooms.

GROUP 148.
INSTRUMENTS AND APPARATUS OF MEDICINE SURGERY AND PROSTHESIS.
Class 837. Surgical instruments, appliances and apparatus, with dressings, anaesthetics, antiseptics; obstetrical instruments, etc.

GROUP 149.
PRIMARY, SECONDARY AND SUPERIOR EDUCATION.
Class 843. Domestic and industrial training for girls—models and apparatus for the teaching of cookery, housework, washing and ironing, needle-work and embroidery, dress-making, artificial flower-making, painting on silk, crockery, etc. Specimens of school work.
Class 849. Education of defective classes—schools for the deaf, dumb, blind and feeble-minded; adult schools for the illiterate.
Class 850. Public schools—descriptions, illustrations, statistics, methods of instruction, etc.
Class 851. Higher education—academies and high schools. Descriptions and statistics. Colleges and universities. Descriptions, illustrations of the buildings, libraries, museums, collections, courses of study, catalogues, statistics, etc.
Class 852. Professional schools—theology, law, medicine and surgery, dentistry, pharmacy; mining, engineering, agriculture, mechanic arts; art and design; military, naval, normal, commercial; music.

GROUP 150.
LITERATURE, BOOKS, LIBRARIES, JOURNALISM.
Class 854. Books and literature, with special examples of typography, paper and binding. General works—philosophy, religion, sociology, philology, natural sciences, useful arts, fine arts, literature, history and geography; cyclopaedias, magazines and newspapers; bindings, specimens of typography.

GROUP 151.
INSTRUMENTS OF PRECISION, EXPERIMENT, RESEARCH AND PHOTOGRAPHY.
PHOTOGRAPHS.
Class 871. Photographic apparatus and accessories. Photographs.
Class 875. Electric and magnetic apparatus. (See also Department J.)

GROUP 152.
CIVIL ENGINEERING, PUBLIC WORKS, CONSTRUCTIVE ARCHITECTURE.
Class 882. Irrigation—irrigating canals and systems.
Class 889. Constructive architecture—plans of public buildings for special purposes; large and small dwelling houses.
GROUP 153.
GOVERNMENT AND LAW.
Class 890. Various systems of government illustrated—government departments, legislative, executive and judicial.

GROUP 155.
INSTITUTIONS AND ORGANIZATIONS FOR THE INCREASE AND DIFFUSION OF KNOWLEDGE.
Class 907. Institutions founded for the increase and diffusion of knowledge, such as the Smithsonian Institution, the Royal Institution, the Institute of France, British Association for the Advancement of Science, and the American Association, etc.; their organization, history and results.
Class 908. Academies of science and letters—learned and scientific associations, geological and mineralogical societies, etc.; engineering, technical and professional associations; artistic, biological, zoological, medical, astronomical societies and organizations.

GROUP 156.
SOCIAL, INDUSTRIAL AND COOPERATIVE ASSOCIATIONS.
Class 917. Secret societies.
Class 918. Miscellaneous organizations for promoting the material and moral well-being of the industrial classes.

GROUP 157.
RELIGIOUS ORGANIZATIONS AND SYSTEMS—STATISTICS AND PUBLICATIONS.
Class 919. Religious organizations and systems.—Origin, nature, growth, and extent of various religious systems and faiths. Statistical, historical and other illustrations; pictures of buildings; plans and views of interiors.
Class 921. Missionary societies, missions and missionary work; maps, reports, statistics.

GROUP 158.
MUSIC AND MUSICAL INSTRUMENTS—THE THEATRE.
Class 930. Stringed instruments with key-board.—The piano-forte, square, upright and grand. Actions and parts of a piano. The predecessors of the piano.—Clavicytherium, clavicymbal, clavichord, manichord, virginal, spinet, harpsichord, and hammer harpsichord. Instruments and methods of manufacture. Street pianos.

DEPARTMENT M.
ETHNOLOGY, ARCHAEOLOGY, PROGRESS OF LABOR AND INVENTION.

GROUP 172.
WOMAN'S WORK.

GROUP 174.
THE NORTH AMERICAN INDIAN.
Class 959. Villages or families of various tribes engaged in their native occupations.
Class 960. Specimens of their special work and industries. Collections of Indian "trinkets" or curiosities.

GROUP 175.
PORTRAITS, BUSTS AND STATUES OF GREAT INVENTORS, AND OTHERS WHO HAVE CONTRIBUTED LARGELY TO THE PROGRESS OF CIVILIZATION AND THE WELL-BEING OF MAN.

GROUP 176.
ISOLATED AND COLLECTIVE EXHIBITS.
Class 968. The Latin-American Bureau.
DEPARTMENT N.

FORESTRY, FOREST PRODUCTS.

Class 99. Logs and sections of trees; samples of wood and timber of all kinds generally used in construction or manufactures, either in the rough or hewed, sawed or split, including square timber, joists, scantling, plank and boards of all sizes and kinds commonly sold for building purposes. Also ship timber, as used in ship-building, or for masts and spars; piles, timber for fencing, for posts, for paving or for timbering mines. Miscellaneous collections of wood.

Class 100. Worked timber or lumber, in form of clapboards, shingles, sheathing or flooring, casings, moldings, stair rails or parts of furniture.

Class 111. Basket industry—willow ware, etc.

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1050
WOMAN'S BUILDING.

UNITED STATES.

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GROUP 7.

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GROUP 8.

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14. Columbian Exhibition Ass'n for Lewis and Clark counties, Mont. Pressed flowers. 167
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<td>McCullough, Miss Caroline L.</td>
<td>Bladensburg, Md.</td>
<td>Holbein embroidery.</td>
</tr>
<tr>
<td>301</td>
<td>McLean County Columbian Club</td>
<td>Bloomington, Ill.</td>
<td>Fine sewing.</td>
</tr>
<tr>
<td>302</td>
<td>Mendenhall, Mrs. Henry</td>
<td>Wilmington, Del.</td>
<td>Tea cloth, doilies and center piece.</td>
</tr>
<tr>
<td>303</td>
<td>Mendenhall, Mrs. John</td>
<td>Wilmington, Del.</td>
<td>Embroidery.</td>
</tr>
<tr>
<td>305</td>
<td>Minturn, Mrs. Alice S.</td>
<td>St. Louis, Mo.</td>
<td>Point lace.</td>
</tr>
<tr>
<td>306</td>
<td>Mitchell, Mrs. J. B.</td>
<td>La Fayette, Ind.</td>
<td>Table cloth.</td>
</tr>
<tr>
<td>307</td>
<td>More, Miss Grace</td>
<td>West Orange, N. J.</td>
<td>Table square in drawn work.</td>
</tr>
<tr>
<td>308</td>
<td>Morris, Mrs. Dora I.</td>
<td>Chicago, Ill.</td>
<td>Point lace sheets.</td>
</tr>
<tr>
<td>309</td>
<td>Morse, Mrs. Anne E.</td>
<td>Fort Wayne, Ind.</td>
<td>Table cloth.</td>
</tr>
<tr>
<td>310</td>
<td>Mott, H. C.</td>
<td>East Hartford, Conn.</td>
<td>Wax, feather, tissue paper, shell and fish scale flowers.</td>
</tr>
<tr>
<td>311</td>
<td>Oberg, Miss Kristina</td>
<td>Portland, Ore.</td>
<td>Embroidery.</td>
</tr>
<tr>
<td>312</td>
<td>Ogden, Clara E. M.</td>
<td>Orange, N. J.</td>
<td>Embroidery.</td>
</tr>
<tr>
<td>313</td>
<td>Ogden, Mrs. R. E.</td>
<td>Iowa City, Iowa.</td>
<td>Lace.</td>
</tr>
<tr>
<td>314</td>
<td>Oberg, Mrs. O. N.</td>
<td>Albert Lea, Minn. Ladies dress lifter and sleeve holder.</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>City/State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>315</td>
<td>Olds, Mrs. Henry G.</td>
<td>Fort Wayne, Ind.</td>
<td>Table runner and doilies.</td>
</tr>
<tr>
<td>316</td>
<td>O'Neill, Mrs. W. O.</td>
<td>Prescott, Ariz.</td>
<td>Quilt made of army badges.</td>
</tr>
<tr>
<td>317</td>
<td>O'Shaunessy, Miss Lucy</td>
<td>Cincinnati, Ohio</td>
<td>a Handkerchief and veil.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b Embroidered handkerchief.</td>
</tr>
<tr>
<td>318</td>
<td>Owen, Minerva</td>
<td>Middletown, N. J.</td>
<td>Counterpane.</td>
</tr>
<tr>
<td>319</td>
<td>Parker, M. E. &amp; Co.</td>
<td>Camden, Me.</td>
<td>Scale work flowers.</td>
</tr>
<tr>
<td>320</td>
<td>Parker, Susie</td>
<td>Rensselaer, Ind.</td>
<td>Table mats.</td>
</tr>
<tr>
<td>321</td>
<td>Pell-Clarke, Henrietta</td>
<td>Springfield Centre, N. Y.</td>
<td>Ecclesiastical embroidery.</td>
</tr>
<tr>
<td>324</td>
<td>Pilkington, Mrs. W. A.</td>
<td>Bridgeport, Conn.</td>
<td>Sleeve holder and bat pin.</td>
</tr>
<tr>
<td>325</td>
<td>Porter, Mrs. William H.</td>
<td>Wilmington, Del.</td>
<td>Embroidery made in 1799.</td>
</tr>
<tr>
<td>326</td>
<td>Powers, Helen</td>
<td>St. Louis, Mo.</td>
<td>Spool holder.</td>
</tr>
<tr>
<td>327</td>
<td>Putnam, Lydia H.</td>
<td>Logansport, Ind.</td>
<td>Table mat.</td>
</tr>
<tr>
<td>328</td>
<td>Quein, Floretta</td>
<td>Chicago, Ill.</td>
<td>Veil clasp.</td>
</tr>
<tr>
<td>329</td>
<td>Radford, Mrs. J.</td>
<td>Chicago, Ill.</td>
<td>Embroidered handkerchief.</td>
</tr>
<tr>
<td>330</td>
<td>Richardson, Miss Agnes</td>
<td>Wilmington, Del.</td>
<td>Curtains and center piece.</td>
</tr>
<tr>
<td>331</td>
<td>Rickords, Mrs. C.</td>
<td>Kansas City, Mo.</td>
<td>Needlework.</td>
</tr>
<tr>
<td>332</td>
<td>Roberts, Mary C.</td>
<td>Connersville, Ind.</td>
<td>Tablecloth.</td>
</tr>
<tr>
<td>333</td>
<td>Robinson, Mrs. H. C.</td>
<td>Wilmington, Del.</td>
<td>Dollies.</td>
</tr>
<tr>
<td>334</td>
<td>Robinson, Mrs. J. A.</td>
<td>Ravenswood, Ill.</td>
<td>Knitted bedspread.</td>
</tr>
<tr>
<td>335</td>
<td>Rose, Mary C.</td>
<td>Chicago, Ill.</td>
<td>Dinner cloth.</td>
</tr>
<tr>
<td>336</td>
<td>Ryerson, S. J.</td>
<td>San Francisco, Cal.</td>
<td>Lace and drawn thread work from United States and Mexico.</td>
</tr>
<tr>
<td>337</td>
<td>Sample, Mrs. Robert W.</td>
<td>La Fayette, Ind.</td>
<td>Tablecloth.</td>
</tr>
<tr>
<td>339</td>
<td>Schmidt, Mrs. H. D.</td>
<td>York, Pa.</td>
<td>Mexican drawn work; shawl made by lady one hundred years old; old-time embroidery.</td>
</tr>
<tr>
<td>341</td>
<td>Scott, Mrs. E. J.</td>
<td>Indianapolis, Ind.</td>
<td>Counterpane.</td>
</tr>
<tr>
<td>342</td>
<td>Seeley, Mrs. Levi</td>
<td>Lake Forest, Ill.</td>
<td>Art needlework.</td>
</tr>
<tr>
<td>343</td>
<td>Sellers, Mrs. Francis G.</td>
<td>Wilmington, Del.</td>
<td>Lace cloth and doilies.</td>
</tr>
<tr>
<td>344</td>
<td>Shaw, Susan W.</td>
<td>Downer's Grove, Ill.</td>
<td>Point lace handkerchief, collars and cuffs.</td>
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<tr>
<td>345</td>
<td>Shepard, Harriet E.</td>
<td>Indianapolis, Ind.</td>
<td>Tablecloth.</td>
</tr>
</tbody>
</table>
347. Smith, Jessie I., New Haven, Conn. Embroidered table cloth. 669
348. Smith, Mrs. Ernest, Wilmington, Del. Bed spread, doilies, etc. 665
349. Smith, Mrs. Mollie, Rural Hall, N. C. Embroidery. 665
350. Smith, Nellie C., La Fayette, Ind. Table cloth. 669
351. Snow, Mrs. N. H., Mineral Point, Wis. Tapestry table cover. 670
352. Sogomeier, Mrs. A. Paola, Kan. Lace curtains. 664
354. Spann, Mrs. John M., Indianapolis, Ind. Table center. 669
355. Stanley, Sara E., Portland, Me. Needlework. 665
356. Stannes, Orpha A., Indianapolis, Ind. Curtain. 669
357. Stark, Mrs. W. H., Chicago. Lace bed spread and pillow shams. 669
358. State of New York, Board of Women Managers.
   a Laces. 664
   b Antique embroideries. 665
   c Fans. 667
359. Stanton Woman's Relief Corps, Los Angeles, Cal. Embroidered badge. 665
360. Stearns, Mrs. R. D., St. John's, Mich. Drawn work. 665
361. Steierly, Miss Emily, LaPorte, Ind. Table cloth. 669
362. Stevens, Mrs. E. J., Washington, D. C. Tapestry. 670
363. Stevens, Mrs. William, Brandon, Miss.
   a Point lace. 664
   b Venetian emnorodery. 669
364. Stillwell, Maria, Brownstown, Ind. Table cloth. 669
365. St. Joseph Academy, St. Augustine, Fla. Lace work. 664
366. Studebaker, Mrs. Clem, South Bend, Ind. Library table cloth. 669
367. Taylor, Susan A., Lafayette, Ind. Table mat. 669
368. Thurston, Matilda, Chicago, Ill. Point lace handkerchiefs. 664
369. "Trump, Miss May, Wilmington, Del. Embroidery. 685
370. Tucker, Mrs. H. S., Indianapolis, Ind. Table cloth. 669
371. Turkish Compassionate Fund, New York.
   a Embroidered bed spreads, center pieces, doilies, etc. 665
   b Art hand embroidery for home and table decoration. 669
372. Turner, Mrs. L. E., North Fairfield, Ohio.
   a Point lace work. 664
   b Crochet work; embroidered table linen, etc. 665
   c Embroidered table scarfs, sofa pil lows, etc. 669
373. Voos, Mrs. A., Portland, Ore. Curtains, bed spread, tidies, etc. 664
374. Walter, Mrs. Virgil W., Wilmington, Del. Flannel skirt. 665
375. Warner, Mrs. Anna R., Wilmington, Del. Embroidery done in 1797. 665
376. Warner, Mrs. E. T., Wilmington, Del. Dress front, mats, cushion, etc. 665
377. Waters, Miss, Mineral Point, Wis. Drawn work. 665
378. Westmorland County Auxiliary Committee, Greensburg, Pa. Needle work. 665
379. White, Mrs. M. E., Butte, Mont. Needle work. 665
380. Whitman, Mrs. J. M., Montpelier, Idaho. Embroidered symbolical flag made by Mormon women. 669
381. Williamson, Amanda, Indianapolis, Ind. Table cloth. 669
382. Williamson, Amy, Tipton, Ind. Table cloth. 669
383. Williamson, Mrs. John H., Indianapolis, Ind. Table cloth. 669
384. Williamson, Mary A., Indianapolis, Ind. Embroidered table and bedroom furnishings. 669
385. Wilson, Lilian A. B., Meriden, Conn.
   a Center piece, cushion and doilies. 665
   b Table spread. 669
386. Wise, Mrs. Elizabeth J., Wilmington, Del. Thread lace. 664
387. Zimmermann, Catherine, St. Charles, Mo. Work in tatting. 665

GROUP 107.

Hair Work, Coiffures, and Accessories of the Toilet.

388. Keith, Mrs. George, Maltese, Mo. Bouquets made of the hair of the ladies of the World's Fair Committee of St. Louis County, Mo. 672
389. Lyons, Anna Eliza, Syracuse, N. Y. Hair work. 672
390. McDonald, Mrs. J., Streator, Ill. Hair wreath. 672

GROUP 108.

Traveling Equipments—Valises, Trunks, Toilet Cases, Fancy Leather-work, Canes, Umbrellas, Parasols, etc.

391. Eaton, Mrs. Minerva J., Hot Springs, S. Dak. Trunk. 673
393. Law, Lizzie H., Providence, R. I. Safety pockets for purses, etc. 680

GROUP 109.

Rubber Goods, Caoutchouc, Gutta Percha, Celluloid and Zylonite.

395. Foxworthy, Mrs. Mollie, Lincoln, Neb. Waterproof garment. 688

GROUP 110.

Toys and Fancy Articles.

396. Dike, May, Boston. Penwipers and jewelry plate. 695
397. Dodge, Mrs. Arthur M., New York. Costume dolls. 693
398. Featherstone, Miss Sara W., Toledo, Ohio. Card game. 698

400. Macfie, Anne E., Grand Haven, Mich. Game of art characters. 693

401. Milliken, Miss Annie B., Chicago. Toy folding chair. 693

402. Parker, M. E., & Co., Camden, Me. Scale work jewelry. 695

403. Smith, Mrs. Wm. H., New York. Tops and dolls. 693

404. Sweet, Miss Stella, Kansas City, Mo. The Easter egg toy. 693

GROUP 111.
Leather and Manufactures of Leather.

405. Breves, Mrs. H., Chicago. Em-bossed leather chair seat and back. 705

406. Fobes, Harriet K., East Orange, N. J. Leather work decorated by etching. 705

407. Heimrod, Dora L., Omaha, Neb. Hand carved leather chair in high relief. 705

GROUP 115.
Heating and Cooking Apparatus and Appliances.

408. Bulkley, Mrs. Mary B., St. Louis. Duster. 730

409. Burns, Priscilla M., St. Louis. Flour sifter. 730

410. Cochrane, Mrs. J. G., Shelbyville, Ill. Dish washer. 726

411. Durell, M. S., New York. Steam radiator attachment. 726


413. Foxworthy, Mrs. Mollie, Lincoln, Neb. Gasoline kitchen. 729

414. Hambel, Mrs. A. J., Chicago. Egg beater. 720

415. Hamilton, Catherine M., Decatur, Ill. Model of convertible chair. 730

416. Hillyer, Mrs. Harriet R., Madison, Wis. Cooking table. 730

417. Holcomb, Mary H., Chicago. Baking dish. 730

418. Holden, Mrs. Martha B., Chicago. Carpet and floor duster. 730

419. Minster, Elizabeth, Ravenswood, Ill. Bolster. 730

420. Noland, Mrs. Mary B., Independence, Mo. Meat boiler. 700

421. Robertson, Emma L. I., Port Hope, Canada. Frying pan. 730

422. Sawyer, Mrs. H. A., St. Louis. Dish heater. 730

423. Shleppy, Mrs. Ettie E. B., Russo-ville, Ind. Beef mangler. 717

424. Wilcox, Olive W., St. Louis. Bake oven. 727

425. Wood, Mrs. Eliza A., Easton, N. Y. Mop pail. 730

GROUP 116.
Refrigerators, Hollow Metal Ware, Tinware, Enameled Ware.

426. Harris, Mary M., Chicago. Model of refrigerator. 731

427. Romney, Mrs. C. W., Chicago. Water cooler and refrigerators. 731

GROUP 117.
Wire Goods and Screens, Perforated Sheets, Lattice Work, Fence-ing, Etc.

428. Price, Mrs. Charles, Salisbury, N. C. Screen. 738

GROUP 120.
Plumbing and Sanitary Materials.


430. Dexter, Mary J., Wauwatosa, Wis. Portable bath-tub. 753

431. Neal, Miss S. C., New York. Portable bath-tub for infants. 753

GROUP 121.
Miscellaneous Articles of Manufacture not Heretofore Classed.

432. Caldwell, Miss Hattie D., Chicago. Straw work on lace. 755

433. Dexter, Mrs. S. H., Chicago. Fancy rope work. 753

434. Smith, Mrs. S. L., Austin, Ill. Scale for measuring hens, etc. 753

435. Webb, Mrs. Frank, Wilmington, Del. India ink marking. 753


DEPT. K—FINE ARTS.

GROUP 139.
Sculpture.


438. Plaster bust of Ulysses S. Grant. 820

439. Barton, Miss Carrie, Lincoln, Neb. Young Athlete. 822

440. Brooks, Caroline C., Cincinnati, Ohio. Bust of Lucretia Mott. 820

441. Chislett, Mabel C., Chicago. Plaster bust. 820

442. Copp, Ellen Rankin, Chicago. Plaster portrait of Harriet Monroe. 820

443. Curtis, Amelia D., St. Joseph, Mo. Bas-reliefs. 821

444. Dunham, Phebe A., Wayne, Ill. Plaster medallions. 820

445. Gates, Adeline, Minneapolis, Minn. Portrait bust in plaster. 820

446. Hammond, Jane N., Boston. Plaster medallions. 820


448. "The West." 820

449. "America." 820


452. Palette Club, Chicago. Sculpture. 820

453. Prescott, Katharine T., Boston. Bas-relief and bronze medallions. 821

454. Slater, Mary E., Philadelphia. Panel in plaster of Paris. 820
GROUP 140.

Paintings in Oil.

A'Becket, Marie, New York.
459. The Storm.
Adams, Mrs. G. P., Chicago.
460. A Pail of Raspberries.
Grandma's Window.
461. Plums.
Anderson, Jessie B., Moorhead, Minn.
462. Study of Negro Woman's Head.
Barney, A. C., Cincinnati.
463. Portrait.
Beaux, Cecilia, Philadelphia.
464. Colleen.
Bell, Frances S., St. Louis, Mo.
465. Oil paintings.
Benedict, Euelia, Lake Forest, Ill.
466. Old Stories.
Boggs, Mary H., Long Beach, Miss.
467. Winter View of Gulf Coast.
Bohn, Grace G., Chicago.
468. A Staid Old Poser.
Old Cider Mill.
469. Bond, Frances N., Chicago.
Posing.
Eve.
471. Brooks, Maria, New York.
472. Down Piccadilly.
Brown, Mrs. Delia F. H., Pinerolo, Italy.
473. Oil paintings.
Brown, Mrs. M. G., San Jose, Cal.
474. Basket of Peaches.
Burton, Kate, Geneva, Ill.
475. White's Creek.
476. A Country Road.
Cari, Kate A., Paris, France.
477. Oil paintings.
Chapman, Minerva J., Chicago.
478. The Village Church.
Clark, Mrs. T. C., Stillwater, Minn.
479. Still-life Study.
Clarke, Sarah F., Marietta, Ga.
480. In the Great Smoky Mountains, N. C.
Coats, Ida May, San Francisco, Cal.
481. Light of the Harem.
Coman, Mrs. C. B., Waterville, N. Y.
482. Thistledown.
Conly, Jean, Boise City, Idaho.
483. Spring Among the Foot Hills.
Craig, Mrs. A. M., Galesburg, Ill.
484. Roses.
Daggett, M. Leftwich, New York.
485. Portrait de ma Fille.
Dodgshun, Mrs. A. V., Chicago.
486. Landscapes.
Dohn, Pauline A., Chicago.
Emmet, Lydia, New York.
488. Portrait: Study.
Fassett, Mrs. C. A., Washington, D. C.
489. Oil paintings.

Fenner, Emily, South Orange, N. J.
490. Carnations.
Fenner, Lucy T., South Orange, N. J.
491. Dog's Head.
France, Mrs. Eurilda Loomis, Pittsburg, Pa.
492. Preoccupation.
Fry, Georgie T., St. Louis, Mo.
493. Mountain Brook.
Gill, Rosalie L., New York.
494. A Study.
Gray, Miss Abbot, Cincinnati.
495. Portrait.
Grothjean, Fanny C., Boise City, Idaho.
496. Marine.
Hart, Letitia B., New York.
497. A New Book.
Harwood, Mrs. Hattie R., Salt Lake City, Utah.
498. Still Life.
Haydock, Atha, Cincinnati.
499. Portraits.
Hayes, Mrs. J. T., Portland, Ore.
500. Landscape.
Hayney, Mrs. W. T., Milwaukee, Wis.
501. Portrait.
Herrick, Caroline K., Brick Church, N. J.
Hess, Miss Lydia P., Chicago.
503. Two Friends from Normandy.
Holmes, Miss Mary J., Chicago.
504. Portrait of Hannah Moore supposed to have been painted by Sir Joshua Reynolds.
Holt, Mrs. Maud S., Little Rock, Ark.
505. Still Life.
Jackson, Lily I., Parkersburg, W. Va.
506. Mrs.
Joslyn, Kate, Janesville, Wis.
507. Studies of Roses.
Keith, Dora Wheeler, New York.
508. Daphne's Nymphs.
Kellogg, Alice D., Chicago.
509. Portrait.
Kimbrough, Mrs. C. G., Lexington, Miss.
510. Portrait.
Landscape.
Klumpke, Anna E., Boston.
511. Oil painting.
Lamar, Kate L., Washington, D. C.
Leschat, Mrs. Ottily, Harrisburg, Pa.
513. Swabean Peasant.
Lord, C. A., Cincinnati.
514. Noon.
Lyon, Haitie L., Bethel, Conn.
515. A Bouquet of Onions.
MacKubin, Miss Florence, Baltimore.
516. Pekof The Lute Mandolin Player.
Matthern, Theodora K., Chicago.
517. Autumn's Last Offering.
Group of Orchids.
523.
UNITED STATES.

Matthews, Retta, Arlington, Ind. 525. Salle de Venus, Louvre.


McDougne, Louise F., Cincinnati. 527. Landscape.

McLaughlin, M. Louise, Cincinnati. 528. Head.

McLean, Eugenie, Pullman, Ill. 529. A Dreamer.

Mumaugh, Mrs. F. M., Omaha, Neb. 530. Beulah's Dog.

Natt, Phebe D., Philadelphia. 531. Illustrations in black and white.

Newman, Mrs. W., Cincinnati. 532. Portrait.


Palette Club, Chicago. 535. Paintings.

Parmele, Madge B., Rochester, Minn. 536. Portrait of Lady with Violin.

Fruit. 537.

Parsons, Orrin Sheldon, New York. 538. Portrait of Mrs. Lillian Devereaux Blake.

Plympton, A. H., Cincinnati. 539. Landscape.


Rohrer, Alice H., Worthington, Minn. 541. Marine.

Old Log Cabin near Spring Lake, Ia. 542. Bachelor's Lunch.


Smith, Miss M., Minneapolis, Minn. 546. Early Morning on the Lake of the Isles.

Solari, Mary M., Memphis, Tenn. 547. Beggars in Sympathy.

Spencer, Mary, Cincinnati, 548. O. Boys.

Stewart, Luella M., Syracuse, N. Y. 549. Portrait of Jean Laurent.


Tobin, Benedette B., Austin, Texas. 552. Cherries.

Oil painting.

Uhler, Miss C. Estelle, Lebanon, Pa. 553. The Gleaners.

Vanderpool, Emily K., New York. 554. Spirit of the Nineteenth Century.

Uhler, Miss C. Estelle, Lebanon, Pa. 555. The Gleaners.

Wachman, H., Cincinnati. 556. Landscape.

Wade, Caroline D., Chicago. 557. Baby.

A Little Maid.


West, A. M., Minneapolis, Minn. 560. Landscape.

Williams, Mrs. M. D., Indianapolis, Ind. 561. Roses.

A Bit of Hoosierdom.


Old Virginia.

Young, Mrs. L. C., Portland, Ore. 563. Paintings of fruits.

GROUP 141.

Paintings in Water Colors.

Attwill, Elizabeth, Chicago. 564. Water color painting.


Brooks, Elizabeth, Chicago. 566.

Springtime.

On the Shenango. 567.

Brooks, Frances M., Chicago. 568.

The Old Cider Mill.

Butler, Mrs. T. J., Prescott, Ariz. 569.

Wild Flowers.


Derickson, Clara M., Minneapolis, Minn. 571.

Landscape.

Still Life.


La Marquise.

Harrison, Agnes, Minneapolis, Minn. 573.

Water color.

Hart, Miss Lilly M., Champaign, Ill. 574.

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Herrick, Caroline K., Brick Church, N. J. 575.

Roses and Still Life.

Hoke, Martha H., St. Louis, Mo. 576.

Water color.

Hooper, Miss Anna, Wilmington, Del. 577.

Water color.

Hugher, Katherine E., New York. 578.

Fresh Tulips.

Faded Tulips. 579.

Corner of Southern Kitchen.

Portait de ma File. 580.

Hughes, Marie G., Salt Lake City, Utah. 581.

Water color studies.

Lannoy, Mrs. F. de, Chester, Pa. 582.

Water color paintings.

Lathrop, Mrs. A. A., Chicago. 583.

Scenery in Montana.

Leiper, Eliza S., Chester, Pa. 584.

Historical painting.

Ludwig, Katie K., Erie, Pa. 585.

African Scenes.

McKinstry, Grace E., Faribault, Minn. 586.

Angels.

McLean, Miss Charlotte E., Hartford, Conn. 587.

Daisy Field near Stockbridge, Mass.

Murdoch, Sarah A., Stillwater, Minn. 588.

Study of Moccasin Flower.

Pattison, Alice M. G., St. Louis. 589.

La Tulerie.
GROUP 142.

Paintings on Ivory, on Enamel, on Metal, on Porcelain, or other Wares; Fresco Painting on Walls:


605. Archambaut, Mrs. Anna M., Philadelphia.

Tapestry painting.

606. Axtell, Miss Ella C., St. Louis, Mo.

Portraits on china.

607. Board of Women Managers of the State of New York.

Miniatures.

608. Boyden, Emily M. B., Chicago.

Dog in embroidery.

609. Butts, Mrs. S., Dennison, Tex.

Oil paintings in relief on plush, canvas, etc.

610. Cassatt, Miss, Paris, France.

Decorative panel in north tympanum in Woman's Building.

611. Coles, Miss Agnes, New Rochelle, N. Y.

Miniatures on marble and ivory.

612. Dana, Mrs. Mary H., New Haven, Vt.

Paintings on marble.

613. Dodge, Virginia V., Beverly, Ohio.

Paintings on velvet and porcelain.

614. Emmet, Miss Lydia, New York.

Decorative panels on west side of gallery in Woman's Building.

615. Fairchild, Miss, Boston.

Decorative panels on east side of gallery in Woman's Building.

616. Fleming, Caroline F., Minneapolis, Minn.

Painted photographs.

617. Foster, Marie B., Chicago.

Paintings on porcelain.

618. Frazee, Mrs. A., Chicago.

Sketch on porcelain.

619. Fuldner, Miss L., Milwaukee, Wis.

Embroidered picture.

620. Greenleaf, Mrs. Walter, Riverside, Ill.

Paintings on porcelain.

621. Heynser, Mrs. John, Milwaukee, Wis.

Painting on tapestry.

622. Hoke, Martha H., St. Louis.

Miniatures on ivory.


Painted ceiling.


Paintings on porcelain.

625. MacMonnies, Mrs., Paris, France.

Decorative panel in south tympanum of Woman's Building.

626. McKinstry, Grace E., Fairbault, Minn.

Painting on tapestry.

627. McLean, Eugenie, Pullman, Ill.

Painted tapestry.

628. Mann, Mrs. W. L., Chicago.

Paintings on porcelain.

629. Neale, Mrs. Vincent, San Rafael, Cal.

Paintings on china.

630. Payen, Cecile E., Chicago.

Miniatures painted on ivory.

631. Ryerson, Nellie C., Florence, Italy.

Painted tapestries.


Painted tapestry wall hangings.


Decorative panels on east side of gallery in Woman's Building.

634. Sherwood, Rosina E., New York.

Decorative panels on west side of gallery in Woman's Building.

635. Stevens, E. Jane.

Tapestry (Guinevere).

636. Tobin, Benedette B., Austin, Tex.

Tapestry painting.

637. Walker, Miss Lou, Fayetteville, Ark.

Painted piano cover.

638. Walker, Miss Mary E., Flushing, N. Y.

Miniatures on porcelain.

639. Walsmay, Mabel, Philadelphia.

Heraldic painting on vellum.

640. Webling, Miss Ethel, New York.

Miniatures painted on ivory.

641. White, Emma G., Portland, Ore.

Pictures on porcelain.

GROUP 143.

Engravings and Etchings; Prints.

642. Gilliland Anna, M., Plattsburg, N. Y.

Wood engravings.


Engravings.

644. Powell, Caroline A., Trenton, N. J.

Artist proofs of wood engraving.

645. Shipman, Miss Rebecca A., Lewis- ton, Mont.

Proofs of wood engravings.

646. Sussemlitch, Miss Charlotte von, Del- avan, Wis.

Book of etchings, etc.

GROUP 144.

Chalk, Charcoal, Pastel, and Other Drawings.

647. Albright, Mrs. Frances L., Albu- querque, N. M.

Crayon-pastel.

648. Anderson, Jessie B., Moorhead, Minn.

Lead-pencil sketches.


Crayon portrait.

650. Brown, Mrs. Delia F. H., Pinerolo, Italy.

Aquarelles.
86. **Ovington, Irene H., Brooklyn, N. Y.** Bed pan. 882
87. **Provident Dispensary, Rochester, N. Y.** Photographs and statistics. 882
88. **Romney, Mrs. C. W., Chicago.** Laborers' dinner pail and heat conservers. 896
89. **Wood, Miss Alice, Muskegon, Mich.** Model of toboggan slide. 897

**GROUP 148.**

Instruments and Apparatus of Medicine, Surgery and Prosthesis.

90. **Epple, Louise, Chicago.** Trusses and bandages. 897

**GROUP 149.**

Primary, Secondary and Superior Education.

91. **Alumnae Ass'n of Pratt Institute, Brooklyn, N. Y.** Samples of work. 843
92. **American College for Girls, Scutari, Turkey.** Work of the students. 851
93. **Arnold, Miss A. A., Minneapolis, Minn.** Work of school girls. 860
94. **Bachman, Sophia E., Chicago.** Copy book for the blind. 849
95. **Banniwell, Norma, Hickory, N. C.** Design for cabinet by girl 15 years old. 892
96. **Beecher, Mrs. H. F., Port Townsend, Wash, Easel.** 882
97. **Bryn Mawr School, Baltimore, Md.** Model of School. 851
98. **Chicago Trade School, Dressmaking Dept., Chicago.** Models in full dress, charts, etc. 843
99. **Corey, Mrs. L. S., Harvard, Neb.** Historical blocks and panels. 841
100. **Kellogg, Mrs. Martha E., Battle Creek, Mich.** System of ladies tailoring and dressmakers' supplies. 843
101. **King's Daughters, St. Peter, Minn.** Fancy work done by women patients in the hospital for the insane. 849
102. **Kuntze, Miss F. B., Trenton, N. J.** Design for needle-work. 852
103. **McManus, Blanche, Chicago.** Designs for mural decorations, wall-paper, etc. 852
104. **Michener, Mrs. Mary, Ogontz, Pa.** Dress-making chart. 843
105. **Monticello Seminary, Godfrey, Ill.** Statistics and work. 851
106. **Peterson, Miss Maria, Chicago.** Samples of sloyd work to be taught to girls in the common schools. 850
107. **Repley, Mrs. E. C., Hartford, Conn.** Designs for wall-paper. 852
108. **School of Applied Designs for Women, New York.** Designs as applied to wall-paper, carpets and the work of an architect's draughtsman, with samples of completed work. 852
109. **School of Industrial Art and Technical Designs for Women, New York.** Working designs for carpets, wall-papers, printed textiles, etc., with specimens of fabrics. 852

**DEPT. I.—LIBERAL ARTS.**

**GROUP 147.**

Physical Development, Training and Condition—Hygiene.

110. **Carpenter, Emma H., Springfield, Vt.** Surgical bandage. 882
111. **Chinese Woman's and Girls' Home Society, Portland, Ore.** Photograph and chart. 881
112. **Dodge, Mrs. Arthur M., New York.** Exhibit of training school for nurses. 882
113. **Elkins, Miss Fannie, New York.** Plates, drawings, models and photographs. 882
114. **Humphrey, T. G., Hays City, Kan.** Vapor cabinet. 882
115. **Murphy, Mrs. Mary A., San Francisco, Cal.** Metal hot-water appliance. 882
116. **Orphans' Home and Hospital, Albany, Ore.** Statistics and picture. 891
703. Sisters of the Academy of Visitation, Washington, D. C. Books and charts. 851
705. Thompson, Mrs. F. E., Kansas City, Mo. Garment cutter. 843
706. Williamson, Mary A., Indianapolis, Ind. Designs for embroidery executed and exhibited by the women of Indiana. 852

GROUP 150.

Literature, Books, Libraries, Journalism.
707. Anthony, Mary E., Philadelphia. Biographical, poetical and prose works in manuscript. 854
708. Campbell, Mrs. Ellis L., Wayne, Pa. Whittier's Centennial Hymn illuminated. 854
710. Hollister, Mrs. Harvey J., Grand Rapids, Mich. Hymns showing styles of illumination in different periods. 854
711. Lady stenographers of Park County, Livingston, Mont. Samples of stenographic work. 854
713. Morey, Mrs. Anna R., Hastings, Neb. Illuminated booklet. 854
714. Morse, Alice C., Brooklyn, N. Y. Book covers. 854
715. Orff, Annie L. Y., St. Louis. Chaperone magazine. 854
716. State of New York, Women Managers of, Albany, N. Y. Books and pamphlets of statistics of the women of the State. 854
717. Sweeney, Margaret, Chicago. Relief maps. 864
718. Wilkinson, Thomas, South Waukegan, Ill. Sentences written by Madagascar women, with English translation. 854

GROUP 151.

Instruments of Precision, Experiment, Research and Photography.
719. Albright, Mrs. F. L., Albuquerque, N. M. Collection of photographs. 871
720. Carter, Alice R., Chatham, Pa. Photographs of historical women and places in Chester County. 871
722. Farnsworth, Emma J., Albany, N. Y. Amateur photographs. 871
723. Garrity, Miss, Chicago. Photographs. 871
724. Kendall, Mrs. Marie H., Norfolk, Conn. Photographs. 871
725. Millay, Mrs. Jerry, Phoenix, Ariz. Album of photographs. 871
726. Okis, Miss Gertrude, Boothwyn, Pa. Photographs. 871
727. Proctor, Miss Hattie A. Chicago, instrument to facilitate the analysis of oils. 875
728. Richards, Miss Annie L., Boston. Amateur photographs. 871
731. Titus, Mrs. Lillie B., Boston. Photographs. 871
732. Wellman, Miss M. B., Upland, Pa. Amateur photographs. 871
733. Weis, Miss Kate, Salt Lake City, Utah. Tinted photographs. 871
734. White, Mrs. C. E., Butte, Mont. Photographic view of Butte. 871
735. Wright, Mrs. J. O., New York. Amateur photographs. 871

GROUP 152.

Civil Engineering, Public Works, Constructive Architecture.
737. Cobb, Mrs. Anna M., Pensacola, Fla. Working plans, elevations and photographs of houses. 889
739. Ransom, Frances A., East Palatka, Fla. Combination blind and screen. 889
740. State of Iowa. Sioux City Corn Palace. 889
742. Stuekert, Mary C. C., Denver Col. Model and drawings of building for cooperative living. 889

GROUP 153.

Government and Law.
743. Lockwood, Belva A. Washington, D. C. Copy of the law of 1879 admitting women to the U. S. Supreme Court. 890

GROUP 155.

Institutions and Organizations for the Increase and Diffusion of Knowledge.
744. Dana Natural History Society, Albany, N. Y. Representative papers, etc. 908
745. Smithsonian Institute, Washington, D. C. Collective exhibit. 907

GROUP 156.

Social, Industrial and Co-operative Associations.
746. Compton, Mrs. Chas. W., Newark, N. J. Masonic apron. 917
747. Girls' Friendly Society, New York. Reports, statistics and fancy work. 918
748. Massachusetts Ass'n of Working Girls' Clubs, Boston. Reports and maps. 918
749. Minnesota State Board, Minneapolis, Minn. Statistics; philanthropic and reformation literature. 918
750. Woman's Physiological Society, Chicago. Manuscript. 918
751. Woman's Relief Society, Portland, Ore. Photograph and statistics. 918
GROUP 157.
Religious Organizations and Systems—Statistics and Publications.
752. Art embroidery executed by pupils of Girls' Industrial School at Guntur, South India. 921
753. Board of Foreign Missions of the Evangelical Lutheran Church, Baltimore.
754. Woman's Columbia Club of Sedgwick county, Wichita, Kan. Chart of religious work in Wichita, Kan. 919

GROUP 158.
Music and Musical Instruments—The Theatre.
755. Anthony, Mary E., Philadelphia. Original manuscript music 926
756. Church, Lily Regina, Parkersburg, W. Va. Music text books, etc. 926
757. Pick, Libbie & Esther, Chicago. Music cabinet attachment for pianos and organs. 930
758. Wilde, Mary V., St. Louis, Mo. Rubber piano pedal. 730

DEPT. M.—ETHNOLOGY.

GROUP 172.
Woman's Work.
759. Chicago Exchange for Woman's work, Chicago. Woman's work.
760. Philadelphia County Committee, Philadelphia. Photographs, statistics, etc., of women's work in libraries, journalism, hospitals, etc.

GROUP 174.
The North American Indian.
766. DeLaney, Mrs., Alaska. Alaska Indian work 960
767. Fransway, Mrs. Louisa, Oldtown, Me. Baskets, canoes, bows and arrows, wooden tomahawks and knives, snow shoes and moccasins made by the Penobscot Indians. 960
768. Hare, Wm. H., Sioux Falls, South Dakota. Altar cloth executed in bead work by Oglala, Sioux Indian woman. 960
769. Ladies of San Juan World's Fair Aux. Com., Aztec, N. M. Navajo blanket to be used as portiere in Woman's Building. 960
770. Pallardy, Alice, Pine Ridge Agency, South Dakota. Beaded altar cloth made by Sioux Indian woman. 960
771. Patrick, Anne B., Leadville, Col. Navajo blankets and baskets, with two Indian women at work at Indian loom. 959

GROUP 175.
Portraits, Busts and Statues of Great Inventors and Others who have Contributed Largely to the Progress of Civilization and the Well-being of Man.
772. Board of Women Managers of the State of New York. Autographs and portraits of famous women of the past four hundred years.

GROUP 176.
Isolated and Collective Exhibits.
774. French-Sheldon, M., Boston. African exhibit. 968
775. Hunt, Mrs. L. P., St. Paul, Minn. Loan collection of ancient articles. 968
776. Lady Managers of the World's Columbian Commission, Chicago. Neck-handkerchiefs, Bohemian and Slovak bonnets and babies' hoods, head ornaments, embroidered tail of holubinka, aprons, christening cloths, cushion covers, Slovak and Moravian embroidery, photographs of female costumes and country furniture, etc., donated by the women of Bohemia to the permanent memorial building at Chicago. (In Main Gallery) 968

DEPT. N.—FORESTRY.

GROUP 19.
Forestry, Forest Products.
777. Cooper, Mrs. M. D., Bozeman, Mont. Straw basket. 111
778. Fisherwomen of New Jersey. Wall and scrap baskets, etc. 111
780. Ladies of Mercer County, Mercer, Pa. Inlaid table of over 2,000 pieces of native woods. 100
781. McManus, Miss Blanch, Jackson, Miss. Sixty panels of different woods with fruit, leaf and flower of each painted on it. 113
### Loan Collection of Bureau of Applied Arts, New York.

**DEPT. A.—AGRICULTURE.**  
**GROUP 9.**  
Animal and Vegetable Fibres.  
1. Downer, Miss L. de F., New York.  
Flax.  

**DEPT. H.—MANUFACTURES.**  
**GROUP 89.**  
Typewriters, Paper, Blank Books, Stationery.  
Wall paper.  

**GROUP 90.**  
Furniture of Interior Upholstery and Artistic Decoration.  
Silk velours portiere.

**GROUP 91.**  
Ceramics and Moasias.  
4. Bicknell, Mrs. Anna, Brooklyn, N. Y.  
Decorated china jardiniere.  
Decorative panel.  
6. Curtis, May L., Orange, N. J.  
China pitcher.  
7. Dwight, Miss Minnie, New York.  
China.  
Fish platter and plates.  
9. Hall, Miss Frances P., New Haven, Conn.  
Tray, pitcher, bonbonniere, etc.  
Plate and dish.  
11. Osgood, Mrs. Worth, New York.  
Large vase.  
12. Raymond, E. Launitz, East Orange, N. J.  
Decorated plates, dish jar, etc.  
Dresden china tête-a-tête set.  
Pitcher and tray.

**GROUP 92.**  
Art Metal Work—Enamels, etc.  
15. Baxter, Miss Sara, New York.  
Decoration, "Order of Columbus."  
Copper jug and brass jar.  
17. Huntington, Metefill, Pulaski, N. Y.  
Hammered brass mirror frame.  
Brass work.  
Etched brass frame.  
Repousse-work frame.

**GROUP 94.**  
Glass and Glass Ware.  
Glass lights.  
22. Tillinghast, Miss Mary, New York.  
Glass mosaics.

**GROUP 95.**  
Stained Glass in Decoration.  
23. Armstrong, Margaret M., New York.  
Stained glass panel.  

**GROUP 96.**  
Carvings In Various Materials.  
Carved stand and bellows.  
Carved box.

**GROUP 100.**  
Silk and Silk Fabrics.  
Printed silks.  

**GROUP 102.**  
Yarns and Woven Goods of Cotton, Linen and other Vegetable Fibres.  
27. Downer, Miss L. de F., New York.  
Linen table cloth.

**GROUP 105.**  
Lace, Embroideries, Trimmings, Artificial Flowers, Fans, etc.  
28. Cargill, Mrs. Henry, Poughkeepsie, N. Y.  
Center pieces.  
Lace curtains, tea cloth, doilies, etc.  
Painted fans.  
Table covers.  
32. Downer, Mrs. Frederick, New York.  
Hand-made lace scarf.  
33. Drivdahl, Miss Marie, Brooklyn, N. Y.  
Embroidered cushion.  
34. Foote, Catherine, Delhi, N. Y.  
Embroidered mermaid.  
35. Frost, Miss Helen, Poughkeepsie, N. Y.  
Center piece.  
Embroidered dinner set.  
37. Hampton, Mrs. Henry, Poughkeepsie, N. Y.  
Center pieces.  
38. Hogan, Kate, New York.  
Braid lace.  
White satin piano cover.  
Hand-made point lace.  
41. Peters, Mary Austin, New York.  
Embroidered landscapes.
42. Preston, Mrs. R. W., Brooklyn, N. Y. Crochet counterpane and pillow covers. 665
43. Ryerson, Miss N. C., New York. Tapestries 670
44. Satterlee, Miss Florence, New Brighton, N. Y. Embroidered picture. 669
45. Schroeder, Miss Emma, Brooklyn, N. Y. Lace doilies. 664
46. Stevens, Mary D., New York. Ecclesiastical embroidery. 669
47. Stokes, Olivia P., New York. Ecclesiastical lace. 664
48. Troy Women's Exchange, Troy, N. Y. Mexican drawn work. 665
49. Wells, Miss Annie, Philadelphia. Embroidered picture. 669

**GROUP 111.**

Leather and Manufactures of Leather.

50. Hasbrouke, Mary K., Ogdensburgh, N. Y. Specimens of stamped leather. 705

**DEPT. K.—FINE ARTS.**

**GROUP 140.**

Paintings in Oil.


**GROUP 141.**

Paintings in Water Colors.


**GROUP 144.**

Chalk, Charcoal, Pastel and Other Drawings.

60. Milham, Miss Zella, Brooklyn, N. Y. Pen and ink sketch.

**GROUP 145.**

Antique and Modern Carvings; Engravings in Medallions or in Gems; Cameos, Intaglios.


**DEPT. L.—LIBERAL ARTS.**

**GROUP 149.**

Primary, Secondary and Superior Education.

63. Armstrong, Helen M., New York. Sketch and cartoon for decorative panel. 852

64. Armstrong, Margaret M., New York. Designs for book covers. 852
65. Aspinwall, Miss Eliza, New York. Designs for wall paper and silks. 852
67. Atwater, Edith, Brooklyn, N. Y. Design for silver vase. 852
68. Blashfield, Mrs. E. W., New York. Design for mirror. 852
70. Clark, Miss Ida, New York. Designs for wall papers. 858
71. Cox, Mrs. Kenyon, New York. Designs for transom and reredos. 852
73. Emmet, Lydia F., New Rochelle, N. Y. Design for seal. 852
74. Ferguson, E. Adele, Brooklyn, N. Y. Designs for watches, etc. 852
75. Howell, C. E., New York. Book cover designs. 852
76. Humphrey, Maud, New York. Design for wall paper and frieze. 852
77. Huger, Miss K. M., New York. Designs. 852
78. Joyce, Lillian V., Brooklyn, N. Y. Designs for watch cases, etc. 852
79. Lamb, Mrs. Elia Condie, New York. Designs and cartoons. 852
80. Pyle, Katherine, Wilmington, Del. Book illustration and decorated pages. 852
82. Tiffany Glass and Decorating Co., New York. Designs for glass windows, etc. 852

**GROUP 150.**

Literature, Books, Libraries, Journalism.

83. Armstrong, Margaret M., New York. Book covers and initial letters. 854
84. Armstrong, Helen M., New York. Calendars and illustrations. 854
86. Emmet, Lydia F., New Rochelle, N. Y. Pictures, illustrations, etc. 854
87. Keith, Dora Wheeler, New York. Books and illustrations, etc. 854
88. Morse, Miss Alice, Brooklyn, N. Y. Book covers. 854
91. Sherwood, Mrs. Arthur, New Rochelle, N. Y. Book illustrations, etc. 854
92. Stimers, Miss Julia, New Brighton, N. Y. Specimens of lithography. 854
93. Van Rensselaer, Mrs. J. K., New York. Book cover. 854
94. Walker, Miss M., New York. Illustration. 854
95. Whitman, Sarah W., Boston. Book covers. 854
Keppel Collection of Engravings, Etchings, Etc.

The aim of the present exhibition is to show, so far as space permits, what has been done by women engravers during the last three centuries. It has been gathered together with much care and owes its interest largely to the kindness of several collectors of Europe and America and, in the case of modern work, to the hearty co-operation of the artists themselves.

Owing to the limitations of space it has been found impossible, even were it desirable, to represent all who have of late years, worked with the etching needle, but sufficient is shown to exemplify the schools of France, England and America at their best.

Until comparatively recent years a woman engraver was the exception and though we find scattered through the three hundred years that have elapsed since the birth of the art, a fair number of women who have distinguished themselves in engraving, they are there rather through the force of their own individuality than from any general tendency toward a recognition of the equality of the sexes.

Doubtless strong opposition was at first to be overcome, but prejudice has lessened year by year until now the pictures by women are admitted to our public exhibitions on exactly the same basis as those executed by men, solely on their merits.

It is on this footing that the present exhibition should be judged.

In America not only have women established their right to an equal hearing with their male co-workers in the graphic arts, but in etching they can lay claim to at least three whose rank is of the highest, while in the field of wood engraving such good work has been done that it seems impossible for technical excellence to surpass it.

Ghisi, Diana. *Italy, 1535.*
Born in Mantua. Her plates date from 1581-1588. Engraved chiefly after Raphael, Tuccari and Giulio Romano. Her father and brother were also engravers.

1. The Woman Accused Before Christ. (Line engraving after Giulio Romano. First State.)

Marie de Medicis, *Queen of France.*
Born 1573.
Wife of King Henry IV, of France. Regent of France after his death; was afterwards imprisoned by Cardinal Richelieu.

2. Bust of a Young Woman. This wood cut is extremely rare.

Roghman, Gertrude. *Holland, 1590.*
Engraved some plates after his father, Roeland Roghman. Executed about twenty plates in all. Died about 1640.

3. View of Sloterdyck. (Original etching.)
Stella, Claudine. *France, 1634.*
Daughter of the engraver, Jacob Stella.

4. Christ before Pilate. (Line engraving after Nicolas Poussin.)
Sirani, Elisabetta. *Italy, 1638.*
Pupil of her father, Giovanni Sirani. She was poisoned by her servant in 1665, but had already made for herself a famous name.

5. Madonna and Child with an Angel. (Original etching.)
Sandrart, Anna. *Germany, 1658.*
Born in Nuremberg, pupil of her father, Jacob von Sandrart.


7. The same after the same.
Del Pó, Teresa. *Italy about 1660.*
Daughter of Pietro del Pó. She painted in oil and in miniature. Engraved so much in the style of her father that it is difficult to distinguish their works. She was a member of the Academy of St. Luke, at Rome, and died at Naples in 1716. She executed about twenty plates.

8. Allegory in Honor of Philip IV of Spain. (Original line engraving.)
Deveux, Thérèse. *France, about 1720.*
Worked during the middle of the eighteenth century.

9. L'Abbé de la Caille. (After Mlle Le Jeune.)
Kaufman, Angelica. *Switzerland, 1741.*
Worked chiefly in England, where she was highly esteemed, and upon the founding of the Royal Academy in 1768 was elected one of the original thirty-six members. Died in 1807. Many of Bartolozzi's best plates were after her paintings. They were much esteemed by other engravers also.
KEPPEL COLLECTION OF ENGRAVINGS, ETCHINGS, ETC.

10. Hope. (Original etching.)
11. Girl Leaning Against a Rock. (Original etching finished in aquatint.)
12. Girl Plaiting Her Hair. (Original etching finished in aquatint.)
13. Venus with the Corpse of Adonis. (Etching finished in aquatint after Annibal Carracci.)

Prestel, Catharina. Germany, 1744. She was the pupil and afterwards the wife of Johann Amadeus Prestel, whom she aided in some of his best plates, especially in landscape. In 1786 she separated from him and came to London, where she died in 1794. She executed 73 plates after Italian, Dutch and German masters.

14. Landscape with Castle. (Aquatint after Teniers the Younger.)
15. View in Switzerland. (Aquatint after J. Wyants.)

Cosway, Maria. England, 1745. Her husband was Richard Cosway, the famous English miniature painter. Her maiden name was Hadfield. She was of Irish parentage, but was born at Leghorn.

16. Portrait of herself and her husband. (Original etching.)
17. Grief. (Etching after Richard Cosway.)

Deny, Jeanne. France, about 1750. She, with her brother, executed a series of illustrations to the works of Voltaire and Lafayette.

18. A Ruined Tower. (Original etching, dated 1770.)
19. Allegorical Subject. (Etching after Monnot.)


20. A Farm-yard. (Etching after William Woollett.)

Watson, Caroline. England, about 1760. Worked both in mezzotint and stipple. Pupil of her father, James Watson. In 1788 she was appointed engraver Royal by Queen Caroline, and died June 10, 1814.

22. Infancy of Shakespeare. (Stipple engraving after Sir Joshua Reynolds.)

Carey, Regine. France, about 1770.

24. Landscape with Cattle. (Aquatint printed in colors after Rosa di Tivoli.)

Holbein, Theresa. Germany, about 1790. Born in Gratz. Removed in 1814 to Vienna. She engraved about 30 plates, embracing both original landscapes and copies after various masters.

25. Landscape with a River. (Original etching.)

Riollet, Mlle. C. France, 1798. Daughter of Benarlet, the engraver.

26. La Fecondite. (Line engraving after Reubens.)

26a. The Rich Man and Lazarus. (Line engraving after Teniers.)

Piotti, Caterina. Italy, 1800.

27. Queen Semiramis. (Line engraving after Tiziano.) This beautiful engraving won the gold medal of the Academy of Milan in 1830.

Bozzolini, Matilde. Italy, 1811. Born at Florence, engraved only a few plates.

28. Portrait of Gaetano Filangieri. (Line engraving after Tofanelli.)


29. Portrait of Granville Sharpe. (Original etching.)

Perfetti, Elena. Italy, about 1830. Wife of the engraver, Perfetti.

30. Hope. (Line engraving after Carlo Dolci.)

31. The Last Judgment. (Line engraving after Fra Angelico.)


32. Rembrandt's Mill. Maberly pronounced this to be a wonderfully fine copy of Rembrandt's famous etching.

O'Connell, Madame F. Germany, 1835. Her work was done in Paris.

33. A Cavalier. Period of Louis XIII. (Original etching.)

ETCHINGS AND DRY POINTS BY ARTISTS NOW LIVING.

FRENCH SCHOOL.

Abbeva, Mlle. Louise.

34. Portrait of the painter, Carolus Duran. (Original dry point.)

35. Portrait of Charles Garnier, Architect of the Paris Opera House. (Original dry point.)

Paulier, Madame C.

36. Head of a Woman. (Etching after J. J. Henner.)

37. Woman Reclining. (Etching after J. J. Henner.)

38. Saint Sebastian. (Etching after J. J. Henner.)

39. Lady Hamilton. (Etching after Geo. Romney.)


41. Hunting the Hare. (Etching after Jules Gelibert.)

42. High and Dry, Vessels at Low Tide.

43. Bracquemond, Madam Marie.

44. Painter and etcher, wife of the eminent etcher, Felix Bracquemond.

45. Portrait of Madame Beraldi. (Original etching.)

46. Portrait of Monsieur Geoffroy. (Original etching.)

D'Abbeville, Mlle Isabelle.

47. Pupil of Maxime Lalauze.

D'Abbeville, Mlle. Raphael.

48. Head with a Fur Cap. (Etching after Bosso.)

Testard, Mlle Pauline.

49. Landscape. (Etching after Corot.)

50. Landscape. (Etching after Corot.)

Teyssonnières, Mlle Mathilde (Madame Bertrand). Daughter and pupil of Pierre Teyssonnières, the famous etcher.
WOMAN'S BUILDING.

47. A Reverie. (Etching after Feyen Perrin.) This plate won a diploma of honorable mention at the Paris Salon and was also shown at the Exposition.

48. The Haymaker. (Etching after Feyen Perrin.)

Poyntot, Mlle Gabrielle. A pupil of the famous etcher, Woltner; has executed a number of plates after Laurens, Benner, Henner and others.

49. A Young Creole. (Etching after Henner.)

LITHOGRAPHS BY ARTISTS NOW LIVING. FRENCH SCHOOL.

Bonheur, M'ile Rosa. Born 1822. The eminent painter of animals.

50. Head of a Lioness. (Original lithograph with fac-simile of a letter by the artist.)

51. Head of a Young Bull. (Original lithograph.)

52. Spanish Cattle. (Original lithograph; early proof bearing the artist's written directions to her printer.)

ETCHINGS AND DRY POINTS BY ARTISTS NOW LIVING. ENGLISH SCHOOL.

Nichols, Miss C. M. Fellow of the Royal Society of Painter-Etchers, London. The paintings of Miss Catherine Nichols are well known to those who visit the exhibitions at the Royal Academy, London. Her plates are done in pure dry point and are vigorous presentations of English landscape or architecture. She is also a writer of high merit.

53. Amidst the Pines. (Original dry point.)

54. The Stranger's Hall, Norwich, England. (Original dry point.)

55. Fir Trees, Crown Point. (Original dry point.)

56. "O'er Moor and Fen." (Original dry point.)


57. In the Church. (Original etching.)

58. Peasant Woman. (Original etching.)

Halle, Miss Elinor.

59. A Woodcutter. (Original etching.)

60. The Shepherds. (Original etching.)

Hamilton, Mrs. L. Vereker.

61. The Harvesters. (Original etching.)

62. Study of a Peasant Girl's Head. (Original etching.)

Harrison, Miss S. C.

63. Study of a Head. (Original etching.)

Kemp, Miss Emily G.

64. Study After Vandyck. (Etching.)

65. The Coming Storm. (Original etching.)

Roberts, Miss K. May.

66. Portrait of a Man. (Original etching.)

67. Prayer for the Dead. (Original etching.)

Thompson, Miss L. Beatrice.

68. Portrait of an Old Man. (Original etching.)

69. A Shrine in Brittany. (Original etching.)

AMERICAN SCHOOL.

Canby, Miss Louise Prescott, Philadelphia.

70. Sunset. (Original etching.)

71. In the Harbor of Oswego. (Original etching.)

Cassatt, Miss Mary. Born in Pittsburg, Pa., resides in Paris. One of the two large fresco paintings which decorate the Woman's Building is the work of Miss Cassatt.

72. A Lady at a Tea Table. (Original dry point.)

73. Portrait of a Lady. (Original dry point.)

74. A French Peasant Woman with a Child. (Original dry point.)

75. A French Peasant Woman with a Parasol. (Original dry point.)

Clements, Miss Gabrielle D., Philadelphia.

76. Mount St. Michel. (Original etching.)

77. The Way of St. Francis, Chartres. (Original etching.)

Dillaye, Miss Blanche, Philadelphia.

78. Mist on the Cornish Coast. (Original etching.)

79. Early Morning, Dordrecht Canal. (Original etching.)

80. Sardine Wharf, Eastport. (Original etching.)

Farrell, Miss K. Levin, Philadelphia.

81. South Dartmouth Wharf. (Original etching.)

82. Springtime of Love. (Etching after Paul Thumann.)

Ferris, Miss May E., Philadelphia.

83. Waiting. (Original etching.)


84. Moonrise. (Etching after Ross Turner.)

85. Old South Church. (Original etching.)

86. The Road to the Beach. (Original etching.)

"Another attractive work is 'The Road to the Beach,' at Nonquit, Massachusetts, which was exhibited at the Paris Salon. It is very simple in theme—merely a stretch of low coast land with a few scattered shrubs and a wide road stretching away toward the slightly-lifted horizon line. But a great deal has been told for this simplicity. The very spirit of such a scene is caught and given. Even without the title we should know that there was salt in the air and the sea at the end of the road." (Mrs. Schuyler van Rensselaer.)

Hale, Miss E. D., Philadelphia.

87. Study of a Head. (Original dry point.)

88. Study of a Head. (Original dry point.)

Lloyd, Miss H. H., Philadelphia.

89. A River Meadow. (Original etching.)

90. The River. (Original etching.)

Matlick, Miss E., Philadelphia.

91. A Winter Morning. (Original etching.)

92. A New England Orchard. (Original etching.)

McLaughlin, Miss M. Louise, Cincinnati.

93. Woodland Scene. (Original etching.)

94. Head of a Girl. (Original dry point.)
KEPPEL COLLECTION OF ENGRAVINGS, ETCHINGS, ETC.

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WOOD ENGRAVINGS BY CONTEMPORARY AMERICAN ARTISTS.

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List of Societies in the Room for Organizations:

Association for Advancement of Women, Boston.
Associated Collegiate Alumnae, Washington, D. C.
American Society of Authors, Brooklyn, N. Y.
Chicago Woman's Club, Chicago.
Catholic Benevolent Society, Salamanca, N. Y.
Emmetsville Willard Pioneer Seminary, Ill.
Federation of Clubs, Orange, N. J.
Girls' Mutual Benefit Club, Chicago.
Girls' Friendly Society, New York.
Gunter Indian School, India.
Home of Our Merciful Saviour, Philadelphia.
Helmuth College, London, Ont.
Home of Our Merciful Saviour for Crippled Children, Philadelphia.
International Committee Young Women's Christian Ass'n, Chicago.
International Board Young Woman's Christian Ass'n, St. Louis.
Industrial Foreign Missions, M. E. Church, Evanston, Ill.
Industrial College of Mississippi, Columbus, Miss.
Kings Daughters, New York.
Lasell Seminary, Auburndale, Mass.
Ladies' Hermitage Ass'n, Nashville, Tenn.
L'Union des Femmes de France, Paris, France.
Mary Washington Statue, Chicago.
Monticello Seminary, Godfrey, Ill.
National Science Club, Oberlin, Ohio.
National Council of Women, Indianapolis, Ind.
National Deaconesses Conference, Chicago.
Nebraska Ceramic Club, Omaha, Neb.
Non-Partisan Woman's Christian Ass'n, Washington, D. C.
Order of the Eastern Star, Chicago.
Promotion of Physical Culture, Chicago.
Shut-in Society, Millersville, Pa.
South End Flower Mission, Chicago.
The Needlework Guild, New York.
Unitarian Board of Missions, Chicago.
Woman's Columbian Club, Wichita, Kas.
Woman's Education and Industrial Ass'n, Boston.
Woman's Branch of the Congress Auxiliaries, Chicago.
Women's Christian Temperance Union, Chicago.
Woman's Board of Missions, Congregational, Boston.
Woman's National Indian Ass'n, Philadelphia.
Woman's Board of the Interior, Chicago.
Woman's Presbyterian Board of Missions, Chicago.
Woman's National Press Federation, Washington, D. C.
Woman's Home Missions, M. E. Church, Evanston, Ill.
Woman's Work for Woman, Chicago.
Woman's Club of Milwaukee, Wis.
Woman's Relief Corps, Kansas.

CAPE OF GOOD HOPE.

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1. Wild grasses. 165
2. Pressed wild flowers on plates; water colors of Cape Flora. 169

DEPT. H.—MANUFACTURES.

GROUP 90.
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6. Piano back. 598
7. Silver filigree work. 607
8. Kaffir necklaces and bangles; gold filigree work. 612
9. Silk handkerchiefs. 630
10. Figures of Bushmen in full dress. Kaffir mantle, apron and belts; Mosuto woman's dress. 653

GROUP 105.
11. Malay hat. 654
12. Malay wooden shoes. 656
13. Wild skin rugs and sleeping mats. 661
14. Kaffir skin caps. 662

GROUP 106.
15. Embroidery, pin-cushion, table-cloth, doilies and Kaffir handkerchiefs. 665
16. Oriental embroidery. 669
17. Framed screen tapestry. 670

GROUP 108.
18. Fish scale, floral, leather and Kaffir baskets. 680
19. Kaffir sticks. 681

GROUP 110.
20. Fish scale work, wall brackets, tea cozy, painted ostrich eggs, work by Basuto children, Kaffir feather curios and beadwork. 695

GROUP 111.
21. Painted leather screens. 705

GROUP 115.
22. Kaffir brooms. 730

DEPT. L.—LIBERAL ARTS.

GROUP 138.
23. Kaffir musical instruments.
GREAT BRITAIN.

GROUP 172.

WOMAN'S WORK.

Education.

President: Mrs. Fawcett.

Misses Buss, Julia Cock, Davenport, Hill, Gurney, Todd, Kingsley, F. Stevenson and L. Stevenson.

ENGLAND.

Colleges.

2. Girton College, Cambridge. Architect's drawing and views; Anglo-Saxon pottery found in the garden at Girton.
3. Lady Margaret Hall, Oxford. Group of students.

Medical Education.

9. Clapham Maternity Hospital. Photograph of ward.
10. London School of Medicine for Women. Group of students.
11. New Hospital for Women. Drawings of college; photographs of medical staff.
12. Royal Free Hospital. Photographs of building.

Schools.


Girls' Public Day School Company, Ltd.

16. Blackheath High School. Photographs, specimens of work, etc.
17. Harrow Music School. Examination papers and publications.
18. Sheffield High School. Drawings, specimens of work, school magazines, etc.

Inventions Bearing on Education.

20. Mrs. Ayrton's line-divider; Miss A. Gregory's geodescope; Mrs. Mitford's puzzle alphabet; Miss Kerr's skeleton celestial globe; Miss Huddleston's "Theoria Harmonica;" Miss Linscott's invention for teaching notation; Miss A. Osborne Moore's philograph; Miss Constance Barnard's kindergarten loom; Miss Constance Barnard's script letters; Miss Lambert's paragon needlework apparatus; Mrs. Jessie Farwell's geographical cards: Miss Croad's arithmetron.

Portraits.

21. Tripos Students, Newnham College, Cambridge; graduates of London University; pupils of North London Collegiate School; first woman M. A. of London University and her sister; first nine women graduates of the Royal University, Ireland; graduates of London University; North London Collegiate Schools for Girls; graduates of London University; Ladies' College, Cheltenham, etc.

IRELAND.

Official Educational Systems for Both Sexes.

22. Report and rules of Board of National Education; report of the Board of Intermediate Education; report of the Royal University of Ireland.

Colleges Founded by Men, to Which Women Have Been from Time to Time Admitted.

23. Queen's College, Belfast. Royal College of Surgeons, Dublin; Royal College of Physicians; Royal College of Science, Dublin; Magee College, Londonderry; Methodist College, and the McArthur Hall for Women, Belfast.

Colleges Founded by Women, for Women.


25. Victoria College, Belfast. Portrait of founder; photograph of college, students and teachers; magazine; prospectus, etc.

Schools Founded and Carried On by Women, Giving Advanced Education.


27. School reports from high school for girls, Cork; Wellington Park, Belfast; Seatown Place, Dundalk; Portadown, Rutland Place, Dublin; Moravian Schools, Gracehill; Cookstown; Coleraine; Dungannon; Russell street, Armagh; Princess Gardens, Belfast; Oriel College, University Square; Osborne Park; Sullivan Schools, Holywood; Intermediate School, Newry, and Warrenpoint.
Special Schools.
28. Rochelle Schools, Cork. Photograph of school, historical sketch, etc.

School Belonging to the Society of Friends.
29. Girls' Advanced School, Mountmellick. Agricultural School, Brookfield; Brookfield School; Lisburn School; Clergy Daughters' School, Dublin; Female Masonic School, Dublin, and Training College, Dublin.

Miscellaneous.

SCOTLAND.
Edinburgh School Board.
31. Photographs of schools; time tables; Edinburgh Royal High School, founded early in the twelfth century; Sciennes Public School; London Street Public School, and Torphelian Street Public School.

Edinburgh Medical Education.
32. Edinburgh School of Medicine for Women. Photographs of buildings and students; reports, etc.

Scottish Association for the Medical Education of Women. Photographs and reports.

Glasgow School Board.
34. Complete plans of school; photographs; prospectuses; reports; maps; drawings illustrative of standard work.

Glasgow Medical Education.
35. Queen Margaret's College. Photographs and calendar.

FINE ARTS.
Pictures Sent by Her Majesty and the Royal Family.
36. Six original sketches from nature, contained in one frame, by H. M. the Queen.
37. Views from the Queen's room at Balmoral, in snow, November 12, 1890.
38. View from another window, also at Balmoral, November 18, 1878.
39. Pug belonging to Prince Henry of Battenberg, drawn by the Queen in the railway, June 24, 1886.
40. "Spot," the Queen's fox terrier, January 25, 1891.
41. View at Aix-les-Bains, from Tresseve.
42. View from the Queen's sitting-room at Balmoral, in autumn, 1878.
43. Copy in water-colors from an oil painting, size of life, of H. M. the Queen's Munshi and Indian secretary, Abd-ul Karim, 1892, by H. M. the Queen.
44. Two pictures in oil, by H. R. H. Princess Christian of Schleswig-Holstein.

45. Study from nature in water-colors, by H. R. H. Princess Louise (Marchioness of Lorne).
47. "Old Sussex College," Mrs. Allingham.
48. "To the Front" (French cavalry leaving a Breton town on declaration of war), Lady E. L. F. Y.
50. "Portrait of a Baby," Miss Alice Grant.
52. "Fallazzo Rezzonique, Regatta Day" (Browning's palace, Venice), Miss Clara Montalba.
55. "Dolly's Ball Dress," Mrs. Perugini.
56. "Eurydice Sinking Into Hades," Miss Henrietta Rae.

Handicrafts.
President: Lady Roberts.
Mrs. Jack Johnson, Miss Helen Blackburn, Miss Webster and Miss C. Holden.

58. H. M. the Queen. Two napkins made from flax spun by Her Majesty. A hat painted by Her Majesty and given to her granddaughter, Princess Victoria of Schleswig-Holstein.


60. H. R. H. Princess Helena (Princess Christain of Schleswig-Holstein). Embroidery on linen; knitted jersey.


Bookbinding and Covering.

63. Bayly, Miss Helen. Shakespeare, bound in cut leather.
66. Firth, Miss Susanna. Books bound in cut and tooled leather.
67. Nichols, Miss. Bindings in various leathers; embroidered.
68. Noedel, Miss Charlotte, Superintendent of H. R. R. the Princess of Wales' Technical School, Sandringham. Blotter of oak, with panel of cut embossed enamelled cowhide over silver.
69. Prideaux, Miss S. T., London. Embroidered velvet and leather bindings.

Illustrations for Books.
72. Canton, Miss S. R., Bloomsbury. Black and white illustrations; magazine cover.
73. Dicksee, Miss Margaret, Bloomsbury. Black and white illustrations.
74. Greenaway, Miss Kate, London. Four drawings for illustration to book of "Children's Games."
76. Whipple, Miss Amy, Devonport. Water-color illustrations of Hood's poem, "Flowers."
77. Wyatt, Miss K. M., Bloomsbury. Magazine cover.

Cameos.
78. Astbury, Mrs. W. Spencer, Tunbridge Wells. Female head; portrait of Cardinal Newman.
79. Pocock, Miss Julia, London. Cameo shell; Queen's jubilee coinage.

Carvings in Wood.
80. Barr, Miss Lizzie, East Grinstead. Sideboard, style of reign of James I.
81. Dobbings, Miss Lucie A., Leeds. Table of Swedish sloyd carving.
82. Eliot, Mrs. C. T., Coventry. Old English eight-day clock.
83. Elont, Miss, Beford. Walnut dresser seventeenth century.
84. Heath, Miss Maud A., Tunbridge. Frames with painting.
85. Packer, Miss Elizabeth, London. Oak columns.
86. Reeks, Miss Maria E., London. Mirror frame, 16th century.
88. Tankerville, Countess of, Beford. Buffet and dresser after the Flemish.
89. Wilkinson, Miss Gladys. Carved and gilt frame.
90. Williams, Miss Constance, London. Oak mirror, 16th century.

In Ivory.
91. Tankerville, Countess of, Beford. Fan handle, plaques for note or card-case.

In Stone.
92. Bonham, Miss Agnes, South Norwood Hill. Photographs of reredos in St. John's church, Norwood, carved by herself.

Chromo Lithography.

Designs.
94. Aumonier, Miss Louise, Ballinger. For wall papers.
95. Betts, Miss Lily M., London. For wall paper, frieze or embroidery.
96. Bradley, Miss Gertrude, Birmingham. Colored, of "Fox and Geese."
97. France, Miss Georgia Cave, Tysley. For wall paper, showing repeats.
98. Gemmell, Miss Mary, London. For wall papers.
99. Murray, Miss E., Emily, London. For china tea service.

100. Murray, Miss Nina, Scarborough. Designs.
101. Parker, Miss Violet M., Edgbaston. For wall paper.
102. Prochantza, Baroness Pauline, Kilkenny. For frieze.

Etchings and Fashion Plates.
103. Martyn, Miss E. K., London. Illustrations to Christabel.
104. Parker, Miss Violet M., Edgbaston. Finger plates mounted.
106. Young, Miss Lilian, London. Fashion drawings in wash and line.

Fan Painting.
110. Granville, Miss Biarritz, France. Gauze fan leaves.
113. Langford, Miss Alice, Bloomsbury. Watteau fan.
114. Manly, Miss Alice. Fan designed and painted by command of the Queen and presented by her to H. R. H. Princess Beatrice on her marriage.
117. Vasey, Miss Clara, London. Gauze leaf, painted Cupids; fan, "All nations visiting the World's Fair."

Fly Tying.
120. Barker, Miss Mary. Panels for pilasters.

Glass, Stain and Enameled.
122. Casella, Miss Ella, Kensington. Enameled decanter and glasses.
123. Casella, Miss Nelia, Kensington. Enameled glass jar.
124. Newill, Miss Mary, Edgbaston. Cartoons for stained glass windows.

Goldsmiths' Work.
125. Brock-Hollinshead, Miss, Seaton. Tiaras, necklaces, hairpins, and pins of filigree.
127. Chart of Women's Progress in the British Isles, from 1857 to 1892 sent by the National Society for Women's Suffrage, London.

Illuminations.
129. Lynch, Miss Agnes, London. Illuminations on vellum.

Handspun Linen.
130. Langdale Linen Industry, Langdale. Specimens of handspun and handwoven linen.

Leather Work.
133. Bassett, Miss M. A., Leighton Buzzard. Leather work.
134. Bayly, Miss Helen, Florence, Italy. Blotter, leather wallet and card cases.
137. Firth, Miss Susannah, Kirby Lonsdale. Blotting book in embossed leather.
140. Smith, Miss Sophia, Kirby Lonsdale. Screen panel.
141. Weton, Miss Edith, London. Chair covered.
142. Wheatley, Dorothy Helena, London. Hall arm chair of embossed leather.

Mediums for Artists.
143. Turck, Miss E., London. Specimens of work done with Florentine tapestry and other mediums; Cheval screen with panels after an old tapestry.

Marquerie.
144. Malet, Miss Mabel W., London. Writing set, boxes and photograph frames.
145. Working Ladies' Guild, London. Photograph frames, table, writing-desk, screen, etc.

Modeling.
146. Bradley, Miss Gertrude M., Birmingham. Panel illustrating "The Shoemaker and the Elves."
147. Brown, Miss Kate L., Birmingham. Designs for panels.
148. Canton, Miss S. R. Wax figure, "Fairy Godmother."
150. France, Miss Georgie Cave, Tysley. Panel and models for repoussé silver work.
151. Giles, Miss Margaret, London. Design for plaster frieze "Floreat Flora."
152. Quesne Miss, Bloomsbury. Dancing figures.

Mosaics.
155. Hamley, Miss Barbara M. Case of miniatures.
156. Harbutt, Mrs. Cambridge, Bath. Case of miniatures.

Painting on China.
159. Goodwin, Miss Ada E., Derby. Plaque of Roman designs.
161. Harrison, Miss Emily. A Florentine poem.
162. Lewis, Miss Florence, London. Dessert service (Scotch scenes and flowers).
163. Sansom, Miss Nellie, London. "Le Reveil;" a portrait; "Margaret."
165. Williamson, Mrs., London. Plaque ("Tears").

On Panels and Screens.
166. Elont, Miss, Belford. Screen, old Watteau pattern.
168. Tankerville, Countess of, Belford. Screen, old Watteau pattern.
169. Woolhouse, Miss Margaret, London. Screen with painted panels.

Patentened Inventions.
175. Garwood, Mrs. Invention to facilitate pouring from bottles.
176. Gladstone, Mrs. M. C., Bury St. Edmunds. Combined traveling trunk and wardrobe.
177. Grimes, Mrs. E., North Walsham. Protectors for fingers when sewing.
178. Hungerford, Miss M. S., Clonekily, Ireland. Boot and gaiters; showing new method of lacing.
Great Britain.

184. McCleverty, Mrs., Newnham-on-Severn. Combination skirt stand and table.

185. Parnell, Mrs., Barnston, Wallington. Drawings of inventions for extracting gold from base metal.


188. Seaton, Miss R., Sunbury-on-Thames. Cleats for holding ends of threads.


190. Symonds, Mrs. S., Guernsey, I. M. Adjustable millinery stand.


Plan Tracing.


Photography.

194. Browne, Miss Frances, London. Portraits in photographic, sepia and Bartolozzi tint, and black and white.

195. Shand, Miss Alice M., London. "Rest.'

Printing.


Pyrography or Poker Work.

197. Hope-Shorrock, Mrs. Samuel, Darwen. Three panels; photo frame, original design.


Repousse Work.

199. Bewicke, Mrs Calverley, London. Worked silver book cover; screen in pierced brass and copper with poker worked back.

200. Bray, Miss Laura, Shere. Plaque, "Lords and Ladies.'

201. Brown, Miss Charlotte, Tunbridge Wells. Pair of bellows, brush and tray.


203. Mills, Miss Clara, Birmingham. Pair of bellows.

204. Rowley, Mrs., London. Silver sconces.

205. Walker, Miss Lilian, Birmingham. Bookcover and salver.

Sculpture in Marble, Terra Cotta, etc.

206. Bonham, Miss Agnes, South Norwood Hill. Photograph of reredos, in St. John's church, Norwood, carved by herself.

207. Ferguson, Miss, London. Marble bust, "Dorthea:" stone panel; marble column.


Straw-Plaiting and Basket Work.


Tiles.

211. Babb, Miss E. Charlotte, London. Enamel tile painting; angel.

212. Lewis, Miss E., London. Underglaze tile, frame.

Technical Education.


Upholstery.


216. Royal School of Art Needlework, London. Footstools; old Cromwellian chair; box, casket, etc.

Vernis-Martin.


Wood-Engraving.


Lace.

President: Duchess of Abercorn.

Lady Clinton, Lady Ernestine Edgecumbe, Lady Susan Fortescue, Lady Iddlesleigh, Lady Kennmare, Lady Ken- naway, Lady Susan Morley, Hon. Mrs. Marker, Hon. Mrs. Peek, Mrs. Bruce Clarke, Mrs Alfred Morrison, Mrs. Reeve and Miss Constance Hargrove.

English Hand-Made.


221. Buckinghamshire. Black silk fan cover and edging, narrow baby lace, white edging, white insertion, handkerchief border and Maltese and old Buckinghamshire lace collected by Lady Buckinghamshire's Committee.

222. Devenshire. Honiton point fichu, handkerchief and fans with net filling, collected by Lady Iddlesleigh's Committee.

223. Handkerchiefs and lappets in Honiton guipure, trimming and flourishes in Honiton point (Miss Radford, Sidmouth).

224. specimens of Honiton guipure of various periods, to give idea of the alterations in style and workmanship in the last 100 years. (Mrs. Fowler Honiton.)

225. Specimens sent by Mrs. Herbert.

226. Specimens of reproductions of Italian laces from Beer (Lady Trevelyan).

227. Isle of Wight. Harriet Eldridge, Niton. Lace shawls, etc.

228. Northamptonshire. Laces (L. Stanton, Maidford).

Irish.

229. Lindsay, B. Applique, Royal Irish guipure, tambour, tatting, hard and soft crochet, Irish point and antique point laces.
Literature.

President: Mrs. Gordon.
Mrs. Humphrey Ward, Mrs. Clifford, Mrs. Green, Miss Kingsley and Miss Gayford.
Publications by the English Royal Family.
230. Old and rare books by Dame Juliana Berners, Dame Gertrude More, Lady Packington, Mary Astell, Mrs. Latter, Mrs. Filding, Lady Morgan and O. Moreland.
231. Novels by 70 women authors.
232. Poetry by 34 women authors.
233. Historical, biographical and miscellaneous works by 122 women authors.
234. Scientific and miscellaneous works by 27 women authors.
235. Travels by 28 women authors.
236. Pamphlets by 3 women authors.
237. Music by 9 women authors.

Needlework.

President: Lady Henry Grosvenor and Lady Amherst of Hackney.
238. Allote, Miss L., Alford. Plush border, worked flowers.
243. Benn, Mrs., Windermere. Cushion cover.
244. Birkett, Miss, Windermere. Table center.
245. Birkett, Miss Jean, Windermere. Chair back.
250. Brown, Miss C. M., Malvern. Cushion cover.
253. Clarke, Miss M. A., Manchester. Embroidered mantel border.
255. Courtenay, Mrs. S. C. London. Table center.
259. Dillon, Mrs., Frome. Art embroidery.
260. Dixon, Miss J., Harrogate. Table center.

262. Elles, Miss M. C., Wimbledon. Embroidery.
263. Erskine, Mrs. Z., Warminster. Curtain, old design.
264. Fennell, Miss, London. Embroidery and needlework.
265. Flegg, Miss C. M., King's Lynn. Nightdress; netted d'oyleys.
266. Froud, Miss M., Bournemouth. Silk pulpit hanging.
267. Garde, Miss H. M., Cheyne, Ireland. Feather sprays.
269. Garnett, Miss A., Windermere. Cushion cover; tea cloth.
270. Garnett, Miss W., Windermere. Mantel cloth.
272. Gowen, Miss, London. Cushion, photo-screen and mirror frame designed by H. R. H. Princess Louise; tablecloth; linen, etc.
273. Green, Miss Annie, Dewsbury. Els wool shawl.
274. Hainsworth, Miss C. D., Harrogate. Nightdress, sachet and brush bag.
276. Harris, Miss R., Ealing. Afternoon tea cloth.
277. Hayden, Mrs. W., Whitland, South Wales. Embroidered quilt; nightdress bags.
282. Huxley, Mrs. M., Chester. Virgin and Child and Good Shepherd, embroidered.
289. Keown, Miss, Coleraine, Ireland. Silk screen panel.
291. Knight, Miss M., Chelsea. Patchwork scripture text quilt.
292. Lea, Mrs., Urmston. Linen photo frame.
293. Lucas, Miss A., Hutchin. Altar square and organ; sofa back.
297. MacRae, Miss S., Rothesay. Tartan hose.
298. Maples, Misses H. & E., Spalding. Fish scale embroidery.
305. Newton, Mrs. I., Ireland. Curtain.
308. Noedel, Miss, Sandringham. Aprons, overalls for artists; blouses.
311. Parkinson, Miss M., Brighton. Coral embroidery.
312. Phelps, Miss A. J., Farringdon. Samples of darning.
313. Purvis, Miss, Salisbury. Stole; surplice.
314. Pye, Mrs. Walter, Stirling. Portiere; bodice trimmings.
315. Randall, Miss, Slough. Embroidered quilt.
318. Saunders, Miss F. H., Baltinglass, Ireland. Sideboard cloth, Mountmellick work.
319. Saunders, Miss L., Baltinglass, Ireland. Toilet cover.
320. Scott, Miss A., London. Poker work.
322. Shepard, Miss A., London. D'oyles; brackets.
323. Sheppard, Mrs., Surbiton. Strip for table.
324. Sherlock, Mrs., Castletown, Isle of Man. D'oyles.
325. Smallwood, Miss, Great Malvern. Cushion.
326. Smith, Miss M. A., London. Chair backs, table cloth, fan and blotter.
327. Stone, Miss L., Streatham. Screen.
328a. Thompson, Miss, Lancaster. Tea cloth.
329. Thompson, Miss E., Lancaster. Netted halders.
329a. Tobin, Miss E. G., Cheshire. Copy of old christening cloth, etc.
330. Tracy, Miss J. F., Ipswich. Fish scale embroidery.
331. Walmsley, Miss A., Lucerne, Switzerland. Table cloth.
331a. Webster, Mrs., Edinburgh, Scotland. Tartan socks.
332. Webster, Mrs., Wemyss. Satin embroidery; design found on Queen Antoinette's tambour frame at Le Petit Trianon.
332a. Welch, Miss E., Canonbury. D'oyles.
333. Westrope, Miss M. E., Clifton. Table covers, melon seed work.
333a. Wheeler, Miss M., Bridgenorth. Table cover.
334a. Winks, Mrs. Foulkes, Brixton. Chemise, lace top.

Nursing.

President: Mrs. Bedford Fenwick.
Lady Jeune, Mrs. Priestley, Miss Emily Shaw-Lefevre, Miss Isla Stewart, Miss K. Hendie Close, Miss de Pledge, Mrs. Cheadle, Miss S. Cartwright, Mrs. Walter Lakin, Miss Edith Kirwan-Ward, Miss Annasley Kenealy and Mrs. Holmes Spicer.
335a. Autograph portrait of Her Majesty, the Queen, patron of Queen Victoria's Jubilee Institute for Nurses; portrait of H. R. H. the late Grand Duchess of Hesse, Princess Alice of Great Britain and Ireland; portraits of H. R. H. Princess Christian of Schleswig-Holstein, Princess Helena of Great Britain and Ireland, President of the Royal British Nurses' Association.
336. Padded splints; bandages; surgical dressings and appliances; items of comfort for the sick.
336a. Hygienic clothing; dietary service for the sick; nurses' uniforms, caps and bonnets; gallery of celebrated nurses; medals, badges and decorations awarded to nurses; certificates of British nurse-training schools; nursing library.
337. Bust of H. R. H. Princess Christian, President of the Royal British Nurses' Association; bust of Rohere, founder of Saint Bartholomew's Hospital, A. D. 1122; statue and personal effects of Sister Dora; invalid appliances and furniture designed by nurses; models of medical and surgical treatment designed by Sister Marion, Homeopathic Hospital, M. R. B. N. A.; model of Leper Colony, Yakoums; models of the Fridgin-Teale for excluding dust from rooms, cupboards, etc.

Philanthropy.

President: Baroness Burdette-Coutts.
Countess of Harrowby, Mrs. Boyd Carpenter, Mrs. Holmes White, Miss Ellen E. White and Miss Mary Steer.
337a. Papers on the Philanthropic Work of Women for Reading at the Philanthropic Congress.
338. Type-written Reports on the Philanthropic Work of Women, classified under the following subject-headings: Childhood; Girlhood; Women; Help for Poor...
Models and Specimens of Handicraft Work.

338a. Model of a children's holiday home and a creche connected with the Ragged School Union; model of a window and a London cabman's shelter decorated with flowers from the London Flower Girls' Mission; beaten brass letter box and tray from Miss Wingfield-Digby's brass-work class, Bournemouth; carved wood letter box from the Hon. Odynne de Grey's Ratcliffe carving class, London; iron kettle stand, lamp, hinge, bracket and candlestick from Miss Maude's village ironwork class, Curry Rivel, Somerset; artificial flowers from the London Flower Girls' Mission, and carved wood platter and work basket from Miss Ferguson's industrial classes, West Linton, Scotland.

339. Specimens of work from the following Industrial Institutions affiliated to the Society for Promoting Female Welfare: Alford Needlework Association; Portman Chapel Work Society; West Holme Inebriates' Home, Hounslow; Halstead Industrial Home; Digby Institute, Bournemouth; the Cripples' Home and Industrial School for Girls, London; the Cripples' Nursery, London; Italian Protestant Orphanage, Florence; Indigent Blind Visiting Society, London; Industrial Home for Girls, London; South Grove Home School, Tunbridge Wells; Chinese Bible Mission to Women and Children; Epsom Mission Room Work Society; and Illuminated Text Mission.

Irish Industries.

339a. Design in Mrs. O'Brien's Limerick black silk lace for a fan; sent by Mrs. Rogers of Sevenoaks.

340. Handkerchief case from Mrs. Vesey's Dunleckney cottage industry.

340a. Embroidered apron, pinafore and cushion from Mrs. Bagwell's Marlfield cottage industry.

341. Doilies and table covers from Mrs. Ponsonby's Garry Hill girls' class.

341a. Work from Miss Stewart's knitting and embroidery class, Ballyardle.

342. Specimens of the peasant knitting industry at Carna.


Lace, Embroidery and Needlework.

343. Work done by blind children.

344. Specimens of stitches worked at the Sister's House, Fairfield, near Manchester.

345. Specimens of lace from the Association for the Encouragement and Improvement of Handmade Pillow Lace for the counties of Northampton, Buckingham and Bedford.

346. Satin embroidery from Miss Ensor, Norwich.

347. Knitted hosiery from St. Chad's Home for Waifs and Strays, Leeds.

348. Patchwork quilt from Miss Ferguson's industrial classes, West Linton, Scotland.

349. Stockings from Miss Steer's Bridge of Hope, London.

350. Work from London Soho Club for Working Girls, banner by Agnes Robertson, a worker at Crosse & Blackwell's jam factory, samples of art needlework stitches by Harriet Alcock, a clerk; sent by the Honble. Maude Stanley.

351. Specimens of work from the Ragged School Union.

Pictures and Photographs.

352. Photographs of Gordon Hall, Mildmay Boarding House, Deaconess House and Missionary Training Institute at Liverpool; sent by Mrs. Stephen Menzies.

353. Photograph of Mrs. Ponsonby and of her girl's class, Garry Hill.

354. Photographs of Halstead Industrial School; sent by Miss Greenwood.

355. Photograph of the Meath Home for Epileptics.

356. Photographs of Miss Steer's Bridge of Hope, East London.

357. Grants, doles and charities in the county of Norfolk, illustrated with engravings of churches, etc., from Miss Ensor, Norwich.

358. Sketch of a lace-maker in the village of Pitsford, Northamptonshire.

359. Sketches illustrating the work in India of the Marchioness of Dufferin and Ava.

360. Pictures by students of the Art Students' Home, Brunswick Square, London.

361. First Conviction under Martin's Acts ("The Animals' Charter"); from the R. S. P. C. A.

Maps.

362. Map of London, showing the districts in which common lodging houses are situated. From the Lodging House Mission.

363. Map of London, showing the dining-rooms supplying dinners for poor children in connection with the Destitute Children's Dinner Society.

Books.

364. Year Book (1892) of Church of England in the Diocese of Adelaide.

365. Aldershott, a record of Mrs. Danill's work among the soldiers.

366. Associated Workers' League, 1892.

367. Biblewomen and Nurses, a record of the work of the London Bible and Domestic Female Mission.

368. Elizabeth Gilbert, and her work for the Blind, by Frances Martin.

IRELAND.

In Conjunction with the Irish Industries Association.

President: Countess of Aberdeen.

379. Cappoquin, Miss Keane’s Industry. Reticella and raised point lace.


381. Clones Lace-making District. Crochet work.

382. Comermary Peasant Woman. Embroidered baby’s robe.


386. Inishmacsaunt Lace Industry. Raised needlepoint lace.


388. Kenmare, Convent of Poor Clares. Flouncing; embroidered vestments.


401. Limerick, Convent of Good Shepherd. Tambour lace alb.

402. Limerick Lace-making School. Lace scarfs.

403. Limerick, Mrs. Vere O’Brien’s Industry. Tambour lace work.

404. Newry, Convent of Mercy. Tambour lace alb.


406. Parsonstown, St. John’s Industry. Point lace flounce, fan and handkerchief.

407. Royal School of Art Embroidery. Embroidered vestments.

408. Turbotstown Cottage Industry. Embroidered linen quilt.


SCOTLAND.

In Conjunction with the Scottish Home Industries Association.

President: Countess of Aberdeen.

Secretaries: Miss Munro Ferguson and Miss Meta Donald.

Arts.

411. Anderson, Miss, Mauchlin. Bent iron work mirror.


413. Dempster, Miss, Sterling. Inlaid blotter.

414. Ferguson, Mrs. Munro, Novar, N. B. Design for fan.


416. Graham, Miss, Crieff, N. B. Case of filigree work.


418. Harvey, Misses, Tain, N. B. Carved table, clock case and bellows.

419. Pernan, Miss, Glasgow. Draught screen.

420. School of Domestic Economy, Edinburgh. Specimen diploma, etc.

421. Thompson Anstruther, Miss, Colinsburgh, N. B. Arab frieze.

422. Traquair, Mrs., Edinburgh. Photographs of illuminated vellum manuscript of Tennyson’s “In Memoriam,” and two of Mrs. Browning’s sonnets illuminated.

423. Tytler, Miss Fraser, Milton Bridge, N. B. Statuette, “A mud-lark;” tracings of ships’ plans.


Embroideries.

425. Gillan, Mrs., Ayr. Wall panel; table cover.

426. Gillan, Misses, Ayr. Drapery; bedspread; cushion; cot cover; mantel border.

427. Haddo School of Needlework. Embroidered peacock.

428. Houston, Women of (Manageress, the Lady Anne Spiers, Houston House, Renfrewshire). Houston embroidery.

Old Embroideries.

430. Lent by the Countess of Aberdeen. Embroidery, worked by Anne, Countess of Aberdeen, 1740.

431. Lent by Mrs. Morrison Duncan, of Norton. Portion of ancient hanging in green velvet, embroidered with raised needlework, a style specially used in Scotland during the latter Stuart reigns; specimens of old muslin curtain border embroidered by Mrs. Catherine Mackenzie, and old ruffle needlework, as worn on last century dresses; fragment of old Scottish drawing-room coverings embroidered early this century on homespun linen, with specimens of the woolen and flax threads used; ancient pocket-book, worked with green and gold threads on canvas in one of the old Scottish book-cover stitches; Scottish screen, embroidered early this century with the Nicholson arms; bags of Fair Isle knitting and two Spanish bags bought in Valencia market place, to show similarity; scarf in Scottish needle lace, date early this century, and framed piece of old style embroidery executed in colored threads on linen.

432. Lent by the Countess of Str athmore, Glamis Castle, N.B. Embroidery from the bed of Patrick, Earl of Kintorn, worked with his arms, about the year 1606.

Home Industries.

433. Ayrshire School of Art and Women's Industries (Manageress, Hon. Mrs. Vernon, Ayr). Portiere; screens and embroidery.


436. Harris, Women of (Manageress, Lady Scout, Harris). Homespun and woven tweeds; spinning wheel.


438. Stevenson, Miss. Knitted gloves; Victoria tartan. Lace.

439. Greig, Mrs., Aberdeen. Pitsligo lace handkerchief; lace.

WALES.

President: Lady Aberdare.
Hon. Secretary: Miss Adeane.

Women's Industries from North Wales.

440. Adeane, Miss, Holyhead. Lay figure dressed in the national costume of North Wales, Welsh costume with high hat, Welsh aprons, various colors; Anglesey spinning wheels, specimens of homespun flax and wool and silk and wool fabrics.


442. Denbigh, School child of. Sample of marking as done in a Welsh school.


444. Curtain, reproduced from seventeenth century four-post bed, by C. Lewis.

445. Sampler of stitches used in old embroidery, sheet and pillow cases, by E. Elliott.

446. Mirror from original, Henry VIII's time, by K. Sharpe.

447. Silver-backed brush by P. Crosse.


450. E. Tycroes. Spinning wheel.

451. Parry, Catherine, Presadfed. Welsh wigs, as worn by old people in Wales.

452. Williams, Jane, Aberfraw. Baskets made of grass grown on Newborough Sands.

Women's Industries from South Wales.

453. Hand-loom for flannel weaving as done by women in South Wales, lent by Parry and Rock.

454. Samples of Welsh flannels made by women.

455. Spinning wheel for wool, sent by Lady Llewelyn.

456. Dressed figure in costume of Swansea cockle woman, sent by Lady Llewelyn.

457. Welsh coverlids quilted by women in their own homes.


459. Machine-made stockings and Welsh flannels woven by women in Parry and Rock's woolen factories.

PORTRAITS OF EMINENT BRITISH WOMEN.

In Medieval Period.

460. St. Eadgitha, or Edith, of Wilton. Daughter of King Edgar, died 984. Pen and ink drawing of effigy from seal of Wilton Abbey.

461. Devorguilla of Baliol. Founder of Baliol College, Oxford, died 1267. Pen and ink drawing of effigy from seal attached to the statutes of the college.


463. Eva de Braose. Died 1246. Lithograph from monument in St. Mary's Church, Abergavenny.

464. Eva de Cantilupe, Baronesse of Abergavenny. Died 1257. Lithograph from monument in St. Mary's Church, Abergavenny.


466. Mary de St. Paul, Countess of Pembroke. Founder of Pembroke College, died 1377. Pen and ink drawing after painting at Cambridge; also one after an old illumination.

467. Margaret of Anjou. Wife of Henry VI, founder of Queen's College, Cambridge, died 1452. Pen and ink drawing after an old illumination.


492. Lady Fanshawe. Lived 1625-1680. Photograph from picture by Sir Peter Lely.

493. Mrs. Lucy Hutchinson. Wife of Colonel Hutchinson, Engraving.


In Early Half of Sixteenth Century.


499. Mrs. Pope. Mother of the poet. Etching from a drawing at Strawberry Hill.

500. Anne Donne (Mrs. Cowper). Mother of the poet, died 1737. Etching by Blake.


In Civil Wars.

509. Elizabeth Steward (Mrs. Cromwell), Mother of Oliver Cromwell, died 1654. Engraving after an old picture.


517. Florence Nightingale.

519. Dr. Elizabeth Blackwell. Photograph.  520. Dr. Elizabeth Garrett-Anderson. Photograph.
533. Mrs. Priscilla Bright McLaren. Photograph.  534. Miss Isabella M. S. Tod. Photograph.

Pioneers in Education.

539. Miss Emily Davies. Photograph from portrait at Girton College.
543. Mrs. Wm. Grey and Miss Shirreff. Founders of National Union for Education of Women. Photographs.
544. Miss Wordsworth. Principal of Lady Margaret Hall, Oxford. Photograph.
548. Mrs. John Elder. Founder of Queen Margaret College, Glasgow. Woodcut.

Central Group.

553. H. M. Queen Victoria as Princess Victoria. 1829.  554. The Empress Frederick. Engraving after Winterbottom in 1858.


In Science, History, Etc.

559. The Marchioness of Salisbury. Photograph.
570. Miss Ormerod. Photograph.

In General Literature.

576. Mary Granville (Mrs. Delaney). Lived 1700-1788. From painting at Hampton Court.
582. Mrs. Grant of Laggan. Lived 1753-1838. Engraving.

In Poetry.

586. Christina Rossetti.
603. Mrs. Oliphant. Photograph.
604. Anne Thackeray (Mrs. Richmond Ritchie). Photograph.
608. Mrs. Humphrey Ward. Photograph.
610. "Edna Lyall."

In Drama and Music.

613. Mrs. Kendall.
614. Ellen Terry. Photograph.
615. Rosalind Frances Elicott. Photograph.
618. Olivia Prescott, A. R. A. M. Photograph.
619. Maude Valerie White. Photograph.

In Art.
627. Louisa, Marchioness of Waterford. Died 1891.
628. Mrs. Allingham.
629. Lady Butler.
630. Mrs. Julia Cameron.
631. Mrs. Louise Stair Canziani.
632. Miss A. Grant.
633. Miss Mary Grant.
634. Mrs. Marrable.
635. Miss Moody.
636. Mrs. Perugini.
637. Mrs. Jopling Rowe.
638. Mrs. Adrian Stokes.
639. Mrs. Swynnerton.

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RUSSIA.

Imperial Ladies’ Committee of Russia.
An exhibit of woman’s work from Her Imperial Highness, the Grand Duchess Elisabeth Teodorowna, from the city and government of Moscow; Mme. A. N. Narischkine, Tambow; Princess Urmsoff, Smolensk; Baroness Korff, Amour; Mme. Gontcharoff, Limбирsk; Princess Shahavskvi, Pensia; Mme. Gwrko, Warsaw; Mme. Baranoff, Nyui Novgorod; and the ladies’ committees at Kasan, Wiatka, Odessa, Tobolsk, Kovno and Minsk. Also, large dolls dressed to represent the native costumes of the different clans of peasant girls of the empire, and court costumes from the time of the early reigns to the present day, and a book on literature, science and art.
## SIAM.

### DEPT. H.—MANUFACTURES.

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<tbody>
<tr>
<td>97.</td>
<td>Various silver articles.</td>
<td>607</td>
</tr>
<tr>
<td>98.</td>
<td>Small gold articles and rings.</td>
<td>612</td>
</tr>
<tr>
<td>100.</td>
<td>Silk-lined bedspreads, silk and gold shawls and scarfs, girdles and children's belts.</td>
<td>630</td>
</tr>
<tr>
<td>103.</td>
<td>Gold and silk cord.</td>
<td>647</td>
</tr>
<tr>
<td>104.</td>
<td>Silk penungs, prince's gold and silver state robe and girdle, silver and gold pantalettes, gold embroidered nobleman's robe, girdle and doublets and child's doublet.</td>
<td>658</td>
</tr>
<tr>
<td>106.</td>
<td>Gold lace aprons and bat covers.</td>
<td>664</td>
</tr>
<tr>
<td>108.</td>
<td>Embroidered pillows, cushions and doilies.</td>
<td>665</td>
</tr>
<tr>
<td>110.</td>
<td>Siamese game, chess and saka boards and sets.</td>
<td>693</td>
</tr>
<tr>
<td>115.</td>
<td>Photographs.</td>
<td>871</td>
</tr>
</tbody>
</table>

### DEPT. L.—LIBERAL ARTS.

<table>
<thead>
<tr>
<th>GROUP</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>150.</td>
<td>Educational text-books in Siamese.</td>
<td>855</td>
</tr>
<tr>
<td>115.</td>
<td>Photographs.</td>
<td>871</td>
</tr>
</tbody>
</table>
ANTHROPOLOGICAL BUILDING.
The Department of Ethnology occupies all the southern end of the main floor. These are occupied by Sanitation and Hygiene and the Bureau of Charities and A to F, and the columns on the main floor and in the gal 1 to 15, east to west. The letter and number following exhibit. The sign “Floor, J-6” indicates that the exhibit...
in the Anthropological Building except E and F in the divisions of the Liberal Arts Department—the Bureau of sections. The sections on the main floor are lettered from A to Y, north to south, and numbered from exhibit in the catalogue marks the column nearest to the main floor near the column J-6.
R PLAN
L BUILDING.
EXPOSITION.
DEPARTMENT M.—ETHNOLOGY.

This department, although generally known as that of Ethnology, includes the several groups of ethnology, archaeology, anthropological laboratory, history and natural history of which the general exhibits are in the Anthropological Building; also the Latin American exhibit—the special exhibit of the relics of the time of Columbus arranged in the Convent of La Rabida; the reproductions of the ancient ruins of Yucatan on the grounds immediately north of the Anthropological Building; and the ethnographical exhibition of native people of America, who are living in their native habitations on the stretch of land along the eastern side of the south pond between the Anthropological Building and the Indian school-house. Just north of the Indian school-house is the Convent of La Rabida, and near it is the log house of pioneer times, which belongs to the historical section of the department. The Anthropological Building was the last of the Exposition buildings to be constructed, when it was found to be necessary to obtain more space for the section of education in the Manufactures and Liberal Arts Building. The Ethnological department was then assigned to the new building was to have in the Building was given Education. The long and 255 feet lery 48 feet wide Thirty thousand southern end of up to the sections Sanitation and of sections belonging Arts. The remain occupied by the ethnological ex countries, State individuals, and the by the assistants who were sent to North, Central and make special ex searches under the chief of the de ing the building door on the north after passing down beyond the gal they right and left the several small collections illustrating certain points in the archaeology and ancient art of Assyria, Egypt and Rome; beyond this the Grecian exhibit by the Grecian Government, supplemented by collections from the Chicago Art Museum. This Grecian exhibit is made the central group in the hall. On the right of this is the French exhibit, and beyond that is the exhibit from the Spanish Government containing many groups brought directly from the Madrid Exposition. To the right of Spain's court are several groups of objects from the museums of Vienna and Berlin, and also the Russian exhibit. Passing northward from these exhibits along the western side of the building are several small exhibits from Asia and Africa. Following along the side aisle to the north is the large and interesting exhibit from New South Wales. Then come the several lots of objects from the Pacific islands which lead to the special collections made by the department illustrating the ethnology of the
northwestern coast of America—the Queen Charlotte islands, Vancouver, etc. Of particular interest here is the complete model of the village of Skidegate with all its houses and totem poles. Crossing the main aisle, the next division is that of the Indians of North America, which contains several collections illustrating the habits and customs of the Indians. Next to this are the archæological and ethnological collections forming the Canadian exhibit; southward along the eastern side of the building are the State collections of New York, Indiana, Ohio, Wisconsin, Missouri, Colorado, Utah and of the Hemenway southwestern expedition and various other exhibits, particularly those from Ohio and the Delaware valleys made by the department. Then come the large and important exhibits from Mexico and the several republics of Central America. In these exhibits are some of the most interesting objects in the building. The collection of singular sculptures and strange tablets of hieroglyphs here combined has never been equalled; a mass of material has here been brought together which gives the student the long wished for opportunity for comparative study of this remarkable phase of early American culture. South of these exhibits are those from South America, which include the collections secured from the extensive explorations by the department in Ecuador, Chili, Peru and Bolivia, illustrating the arts and customs of the ancient people of those countries and also the customs and arts of many of the present tribes of the interior. There are also large and interesting ethnological exhibits sent by the Governments of British Guiana, Paraguay, Brazil and the Argentine Republic, illustrating the native people of these countries. These various exhibits are followed by a series of cases stretching entirely across the building which contain the special exhibit of the section of folk-lore, religions and games of all countries. Ascending to the gallery, the visitor will find the several offices of the department in the north-western corner, and a work-room and committee room on the western side. Between these rooms and occupying the whole northern gallery are the series of alcoves forming the anthropological laboratories. In these can be seen a large collection of instruments and apparatus, received from the more important anthropological laboratories of the universities in this country and from several in Europe, with a very extensive series of apparatus from the principal makers in Europe made especially for this exhibit. The laboratories are divided into three sections—Physical Anthropology, Neurology and Psychology. In these laboratories the practical working of the apparatus is shown and any one who wishes can have, by the payment of a small fee, various tests applied and can be measured and recorded upon cards which are given to the person, while the record is made upon the charts and tables hanging on the walls of the laboratory to illustrate the various subjects. Here, too, are a series of skulls and skeletons and various models showing the physical characteristics of the various races and varieties of man. An interesting series of charts in the Physical Anthropological section is that illustrating the development of over 50,000 school children in various cities of North America; while another series of diagrams and maps shows the physical characteristics of the Indians of North America, as derived from measurements and observations upon nearly 20,000 Indians, recorded by about seventy-five special assistants of the department, who were engaged for nearly two years in this work. On the western gallery are the several historical collections in which are many interesting objects. The largest of these is the exhibit of the State of Ohio. Here, also, are the exhibits of postage stamps and coins. Following these are several special exhibits, including those of taxidermists' and naturalists' supplies. Extending the whole length of the southern gallery is the exhibit of Ward's Natural Science Establishment of Rochester, New York. This is a perfect museum of natural history and in it one sees all forms of animal life from the sponges to man, all admirably classified and arranged. On the eastern gallery are many exhibits of natural history. Particularly noticeable are those of the States of Maine, New York, Pennsylvania, Indiana, Ohio, Missouri, North Dakota and Colorado, which contain representatives of the
birds, mammals, fresh water and land shells and fossils of the various States. The exhibit of Agassiz Association is also on this gallery and gives a very interesting illustration of the work and high aims of this important association in increasing the love for natural history studies.

The exhibit of the Latin American bureau is made in the Anthropological Hall by the Bureau of American Republics under the supervision of the State Department of the United States. The condition, the geographical knowledge and science of navigation at the time Columbus undertook his trip, are shown by archaeological collections. The life and history of Columbus are taken up and followed to his grave by a series of illustrations, in which every country is shown. Photographs of Watlings island and every place visited by Columbus in America and every place identified with him in Spain, are exhibited. The armor and equipment which were worn by his men; a collection of articles such as he used in trading with the Indians; how the Indians were overcome and how they defended themselves; fragments of the first civilized settlement in America brought from Santo Domingo, down to the present day in Latin America, are all properly grouped and shown.
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WHEREAS, T. P. Moody has designed a Souvenir Badge of the World's Fair, and caused the same to be copyrighted by the Librarian of Congress; and

WHEREAS, It appearing to this Board that the design of said Souvenir represents the Landing of Columbus in 1492, giving the bust of Columbus in the centre of a full-rigged ship—the Santa Maria—and in all respects being an authentic and instructive Souvenir:

RESOLVED, That the Board of Reference and Control of the World's Columbian Commission does hereby adopt said Souvenir as the official Souvenir of the World's Columbian Exposition.

Office of the Secretary,.....

WORLD'S COLUMBIAN COMMISSION.

CHICAGO, February 23, 1893.

I hereby certify that the above is a true and correct copy of a resolution adopted by the Board of Reference and Control of the World's Columbian Commission, at a meeting held in Washington City, February 20, 1893.

Witness my hand and the seal of the World's Columbian Commission, this twenty-third day of February, 1893.

Signed: JNO. T. DICKINSON, Secretary.

ADDRESS,

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WORTHINGTON PUMPING ENGINE COMPANY,

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CHICAGO, 93 and 95 Lake Street.
CLEVELAND, 54 Frankfort Street.

PHILADELPHIA, 607 Arch Street.
DENVER, 1762 Larimer Street.

153 QUEEN VICTORIA STREET, LONDON, E. C.

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NEWPORT.
AMSTERDAM.

NEW CASTLE ON TYNE.
GLASGOW.

MANCHESTER.
SWANSEA.

COPENHAGEN.

PARIS.

BUDA PEStH.

VIENNA.

MILAN.

NAPLES.

CALCUTTA, INDIA.

SIDNEY, AUSTRALIA.

1096
CLASSIFICATION.

ETHNOLOGICAL AND ARCHAEOLOGICAL DEPARTMENT (M).

ETHNOLOGY, ARCHAEOLOGY, PROGRESS OF LABOR AND INVENTION.

GROUP 159.

VIEWS, PLANS OR MODELS OF PREHISTORIC ARCHITECTURAL MONUMENTS AND HABITATIONS.
Class 939. Caves—natural, artificial; dwellings, natural and artificial.
Class 940. Lacustrine dwellings—doïmens, tumuli, menhirs, cromlechs, alignments, cup-stones, graves, cists, crematories.
Class 941. Cliff and other dwellings—models of dwellings, shelters, skin lodges, yourts, huts (of bark, grass, etc.), wooden houses.
Class 942. Appurtenances.—Sweat-houses (models), totemposts (originals and models), gable ornaments, locks.

GROUP 160.

FURNITURE AND CLOTHING OF ABORIGINAL, UNCIVILIZED AND BUT PARTLY CIVILIZED RACES.
Class 943. Household utensils and furniture.
Class 944. Articles serving in the use of narcotics—pipes, etc.
Class 945. Articles used in transportation.
Class 946. Clothing and adornment.

GROUP 161.

IMPLEMENTS OF WAR AND THE CHASE.
(See also Groups 86 and 113.)

GROUP 162.

TOOLS AND IMPLEMENTS OF INDUSTRIAL OPERATIONS.
Class 947. Gathering and storing food other than game.—Water vessels.
Class 948. Articles used in cooking and eating.
Class 949. Apparatus of making clothing and ornaments and of weaving.

GROUP 163.

ATHLETIC EXERCISES—GAMES.

GROUP 164.

OBJECTS OF SPIRITUAL SIGNIFICANCE AND VENERATION—REPRESENTATIONS OF DEITIES—APPLIANCES OF WORSHIP.

GROUP 165.

HISTORIC ARCHAEOLOGY—OBJECTS ILLUSTRATING THE PROGRESS OF NATIONS.

GROUP 166.

MODELS AND REPRESENTATIONS OF ANCIENT VESSELS, PARTICULARLY, OF THE PERIOD OF THE DISCOVERY OF AMERICA.

GROUP 167.

REPRODUCTIONS OF ANCIENT MAPS, CHARTS, AND APPARATUS OF NAVIGATION.
Class 950. Charts and maps of the world anterior to the voyage of Columbus.
Class 951. Charts and maps following the discovery.
Class 952. Charts and maps of the period of the early colonization of America.
Class 953. Charts and maps of America and the World at the period of the Revolution and since.

GROUP 168.

MODELS AND REPRESENTATIONS OF ANCIENT BUILDINGS, CITIES, OR MONUMENTS OF THE HISTORIC PERIOD ANTERIOR TO THE DISCOVERY OF AMERICA.
GROUP 169.
MODELS AND REPRESENTATIONS OF HABITATIONS AND DWELLINGS BUILT SINCE THE DISCOVERY OF AMERICA.

GROUP 170.
ORIGINALS, COPIES, OR MODELS, OR GRAPHIC REPRESENTATIONS OF NOTABLE INVENTIONS.

GROUP 171.
OBJECTS ILLUSTRATING GENERALLY THE PROGRESS OF THE AMELIORATION OF THE CONDITIONS OF LIFE AND LABOR.
Class 954. The evolution of the dwelling and its furniture.
Class 955. The evolution of the plow and other implements of the farm and garden.
Class 956. Evolution of tools.—The ax, saw, and other implements of handicraft.
Class 957. Labor-saving machines and their effects.

GROUP 172.
WOMAN'S WORK.

GROUP 173.
STATE, NATIONAL, AND FOREIGN GOVERNMENT EXHIBITS.

GROUP 174.
THE NORTH AMERICAN INDIAN.
Class 958. Special monographic exhibit of the tribes of America.
Class 959. Villages or families of various tribes engaged in their native occupations.
Class 960. Specimens of their special work and industries. Collections of Indian "trinkets" or curiosities.
Class 961. Books or papers, written or printed, in his native tongue.
Class 962. Means and methods of communication between tribes by "sign" language and "picture letters," etc. Status of females under tribal regulations.
Class 963. Treaties and acquisition of territory from the various tribes, and how obtained.
Class 964. Progress of Indian civilization through the efforts of the Government, missionaries, or by his own efforts and choice. His industrial pursuits and capabilities, as exemplified in the shop, on the farm and in the schoolroom. Inventions, etc.
Class 966. The allotment of lands to families and individuals, and its effects.
   The Indian as an American citizen.
   The hope of the Indian.
Class 967. Other attainments and industries not specially mentioned. (For treatment of Indians, reservations, etc., see Class 831; also special Indian schools, see Class 848.)

GROUP 175.
PORTRAITS, BUSTS AND STATUES OF GREAT INVENTORS AND OTHERS WHO HAVE CONTRIBUTED LARGELY TO THE PROGRESS OF CIVILIZATION AND THE WELL-BEING OF MAN.

GROUP 176.
ISOLATED AND COLLECTIVE EXHIBITS.
Class 968. The Latin-American Bureau.
Department M.--Ethnology, Archæology, Progress of Labor and Invention.

SECTION OF ARCHÆOLOGY.

INDIVIDUAL EXHIBITORS.

Colorado State exhibit.  
South Carolina State exhibit.  
French Ministry of Public Instruction; Government exhibit. Foreign. Central America, through M. Desire Charnay, as delegate.  
Canada Government exhibit. Foreign.  
Guthrie, A., 907 West Fourth street, Marion, Ind.  
Green, C. H., Durango, Cal.  
Greece Government exhibit. Foreign.  
Hales, Henry, Ridgewood, N. J.  
Honduras Government exhibit. Foreign.  
Indiana State exhibit.  
Johnson, H. L., 822 N. Market street, Nashville, Tenn.  
Kamensky, Theodore, 6540 Myrtle avenue, Woodlawn Park, Chicago.  
Knowlton, James E., Damariscotta, Lincoln County, Maine.  
Logan, F. G., 3 Board of Trade, Chicago.  
Missouri State exhibit.  
Mexico Government exhibit. Foreign.  
New York State exhibit.  
New South Wales, Government exhibit. Foreign.  
Peru, Government exhibit. Foreign.  
Riggs, C. W., 14 Madison street, Memphis, Tenn.  
Smith, Harlan J., Saginaw, E. S., Mich.  
Spain, Government exhibit. Foreign.  
Thompson, Edward H., United States Consulate, Merida, Yucatan. Individual Foreign exhibit. Central America.  
Utah, State exhibit.  
Wyman, Walter Channing, for Wyman Brothers, Union League Club, Chicago. Wisconsin the State Historical Society of.  
Ayer, Edward E., Chicago.  
Hayssen, Dr. Henry H., New Holstein, Wis.  
Ohio Archæological and Historical Society, Columbus, Ohio.  
Linton, Mrs. Elwina, 35 Wall street, New York.  
Peralto, Josi Alejandro, Bishop of Panama.  
Department of Ethnology, under the direction of F. W. Putnam, chief.  
Wankel, H., Olmutz, Moravia.  
British Guiana, Government exhibit. Foreign.  
New York State exhibit.  
Hunt, George H., Oldtown, Maine.  
Colorado State exhibit.  
Department of Ethnology, under the direction of F. W. Putnam, chief.  
P. Boas, Chicago, Ill.  
H. P. Bowditch, Boston, Mass.  
Felt & Tarrant, Chicago, Ill.  
E. Hitchcock, Amherst, Mass.  
Narragansett Machine Co., Providence, R. I.  
W. F. Porter, St. Louis, Mo.  
G. F. Peckham, Supt. Public Schools, Milwaukee, Wis.  
D. A. Sargent, Cambridge, Mass.  
State Board of Health of Massachusetts.  
University of Chicago, Chicago, Ill.  
G. M. West, Chicago, Ill.  
Ward's Natural Science Establishment, Rochester, N. Y.  
Webb's Adder Co., New York, N. Y.  
Dept. of Ethnology; Foreign Countries; Individuals; Sec. of Physical Anthropology.  
A. Corre, Paris, France.  
J. Kollman, Basel, Switzerland.  
Bannwarth, Berne, Switzerland.  
L'Manouvrier, Paris, France.  
J. Kanke, Munich, Germany.  
E. Schmidt, Leipzig, Germany.  
Berliner Gesellschaft für Anthropologie, Ethnologie und Urgeschichte, Berlin, Germany.  
R. Virchow, Berlin, Germany.  
Tambelli, Turin, Italy.  
C. E. Beever.  
I. W. Blackburn, Government Hospital for the Insane, Washington.
DEPARTMENT M.—ETHNOLOGY, ARCHAEOLOGY.

S. H. Champlin, College of Physicians and Surgeons, Chicago.
James B. Bullitt, Louisville, Ky.
H. H. Donaldson, Neurological Laboratory, University of Chicago.
William Fuller, Grand Rapids, Michigan.
L. Hektoen, Chicago, III.
C. F. Hedge, Clark University, Worcester, Mass.
M. H. Knapp, Chicago, Ill.
J. Leeb, Physiological Laboratory, University of Chicago.
H. M. Lyman, Rush Medical College, Chicago, Ill.
F. T. Miles, Baltimore, Md.
Hugo Münsterberg, Harvard University, Cambridge, Mass.
W. P. Northrup, New York, N. Y.
M. Allen Starr, College Physicians and Surgeons, New York, N. Y.
C. A. Stroieg, Psychological Laboratory, University of Chicago.
Trux, Greene & Co., Chicago, Ill.
B. G. Wilder, Cornell University.
C. O. Whitman, Morphological Laboratory, University of Chicago.
Isaac N. Kerlin, Elwyn Institute, Pennsylvania.
L. Manouvrier, Societe d'Anthropologie, Paris, France.
R. W. Reid, University of Aberdeen, Scotland.
F. O. Schulzke, University of Würzburg, Germany.
G. Schwabhe, Strasbourg, Germany.
Adolph Zeigler, University of Freiburg, Germany.
H. Vievordt, Lübingen, Germany.
Johannes Ranke, Munich, Germany.
Berliner Gesellschaft fur Anthropologie, Ethnologie and Urgeschichte.
Max Kohl, Chemnitz i-S, Germany.
Stoerhcrer & Sohn, Leipzig, Germany.
R. Rothe, Prague, Wenzelsbad, Austria.
F. Mayer, Strassburg i-E, Germany.
Wilhelm Petzold, Leipzig, Germany.
R. Jung, Heidelberg, Germany.
Kagenaar, Utrecht, Holland.
Carl Krille, Leipzig, Germany.
Leppin & Masche, Berlin, Germany.
Emil Sydow, Berlin, Germany.
William Walb, Heidelberg, Germany.
E. Zimmerman, Leipzig-Gohlis, Germany.
H. Elbs, Freiburg i-B, Germany.
Mariaud, Paris, France.
P. Roulot, Paris, France.
Charles Verdin, Paris, France.
Cretes, Paris, France.
D. J. Cunningham, University of Dublin, Dublin, Ireland.
Eberstaller, University of Graz.
Exner, University of Vienna, Vienna, Austria.
Giacomini, University of Turin.
Jung, Heidelberg, Germany.

SECTION OF NATURAL HISTORY.

INDIVIDUAL EXHIBITORS.

Agassiz Association, St. Louis, Mo.
Bradley, A. H., Helena, Mont.
Boehm, Albert, 408 Oakland street, St. La
crosse, Wis.
Canada Government exhibit. Foreign.
North Dakota State exhibit.
Kaempfer, Fred, 47 East Madison street, Chicago.
Lattin, Frank H., Albion, N. Y.
Missouri State exhibit.
Maine State exhibit.
New York State exhibit.
Ohio State exhibit.
Pennsylvania State exhibit.
Stanisky, Gustav, & Co., 2346 Wabash avenue, Chicago.
Stiles, Leander, 2533 Wabash avenue, Chi
cago.
Sowdon & Webster, 738 Broadway, New York.
Tolhurst, F. B., Livingstone, Mont.
Vaughan, Mrs. Carrie Shields, Natchez, Miss.
Ward's Natural Science Establishment, 16-26 College avenue, Rochester, N. Y., by Henry A. Ward, President.
Warembath, Samuel, Tenafly, N. J.
Colorado State exhibit.
Fuchs, Louis, 614 N Street, Belleville, Ill.
Gurley, Wm. F. E., Danville, Ill.
Sguyer, Homer, Mingusville, Mont.
Indiana State exhibit.
Hayssen, Dr. Henry H., New Holstein, Wis.
SECTION OF HISTORY.

INDIVIDUAL EXHIBITORS.

Bourlin, Dimetrius, Ivanovo Voizesensns, Russia. Individual Foreign exhibit, Russia.
Bruegger, Gustav, Pullman, Ill. Individual Foreign exhibit, Swiss.
Chute, James M., 14 Cedar street, Somerville, Mass.
Farquhar, A. B., Harrisburg, Pa.
Hayssen, Dr. Henry H., New Holstein, Wis.
Hooper, W. S., 638 W. Monroe street, Chicago, Ill.
Kelso, Tessa L., Public Library, Los Angeles, Cal.
Kimball, W. S., Rochester, N. Y. Lloyd, Wm. Maretta, Schuylsburg, Wis.
MacDonald, A. E., 517 South Normal Parkway, Englewood, Ill.
Luxton, G. H., 161 Oak street, Chicago, Ill.
Ohio Archaeological and Historical Society, Columbus, Ohio, State exhibit.
Wisconsin State Historical Society, State exhibit.

SECTION OF ETHNOLOGY.

INDIVIDUAL EXHIBITORS.

Angevine, M. H., Fort Yates, North Dakota.
Dyer, D. B., Kansas City, Mo.
Grabill, John H., 113 Adams street, Chicago.
Gunning, R. J., 79-89 Van Buren street, Chicago.
Henderson, Alice Palmer, 2301 Clinton avenue, Minneapolis, Minn.
Haupt, Herman Jr., 606 Rialto Building, Chicago.
Kinney, Louise Catlin, 1730 K street, Washington, D. C.
Kunz, George F., Tiffany & Co., Union Square, New York.
Lawrence, G. A., Jocko, Montana.
Mead, H. Kingtonn, Pinches Creek, Alta, N. W. T., Canada.
McMillian, J. H., 91 W. Madison street, Chicago.
Individual Foreign exhibit, West Africa.
Mexico Government exhibit, Foreign.
Royal Natural History Museum, Vienna, Austria, Foreign.
New York State exhibit.
New South Wales Government exhibit, Foreign.
Paraguay Government exhibit, Foreign.
Babcock, Oliver M., 1401 Washington boulevard, Chicago.
British Guiana Government exhibit, Foreign.
Remengi, E., LaGrange, Ill. Individual Foreign exhibit, Tulas of East Africa and Madagascar.
Russia, Government exhibit, Foreign.
Shuttell, Harvey, 828 Polk street, Chicago, Ill.
Swan, James G., Port Townsend, Wash.
Spanish Government exhibit, Foreign.
Utah State exhibit.
Waterman, Henry B., 3436 Rhodes avenue, Chicago. Individual Foreign exhibit, Japan and East Indies.
Museum für Volkerkunde, Leipzig.
Anthropologische Gesellschaft, Vienna.
K. K. Naturhistorisches Hofmuseum, Vienna.
K. Museum für Volkerkunde, Berlin, Germany.
Fletcher, Alice C., Washington, D. C.
Nuttall, Zelia, Dresden, Germany.
Department of Archaeology and Paleontology, University of Pennsylvania, Philadelphia.
Egyptian section, Department of Archaeology and Paleontology, University of Pennsylvania, Philadelphia. Mrs. Cornelius Stevenson, curator.
Brunswick Balke-Collender Co., Chicago, Ill.
Mr. C. Howard Colkell, 1334 Walnut street, Philadelphia.
Library of the University of Pennsylvania, Philadelphia.
Mr. Stewart Culin, University of Pennsylvania, Philadelphia.
### DEPARTMENT M.—ETHNOLOGY, ARCHAEOLOGY.


### AUSTRIA.

**GROUP 171.**

1. Collective Exhibit of the following Austrian inventors: C. Back, Vienna; S. Bohac, Vienna; Joachim Brenner Freiherr von Schloss Gamfahn, near Vienna; Fr. Cuhel, Dr., Prague; Rudolf Dolezal, Prague; Feitzinger & Co., Vienna; Josef Fischer, Vienna; S. B. Hawes, Dr., American Consul at Reichenberg (Bohemia); E. S. Heller, Tgian (Moravia); Baldwin Herrles Sones, Teplitz (Bohemia); O. L. Ritter von Slanor, Leevilla am Attersee (Upper Austria); Robert B. Sentsch, Ingenieur, Vienna; G. Josephy’s Erben, Bielitz (Silesia); Julius Katz, Vienna; Karl Kellner, Vienna; Richard Kliniger, Ingenieur, Vienna; K. Kriivan & Co., Prague; Theodor Langer, Ingenieur, Vienna; Alois von Luttrotti, Podsued und Vienna; Ferdinand Ritter von Manlicher, Oberingenieur, Vienna; Franz Michel K. K. Hoftischler, Vienna; Johann Nadler, Vienna; Fr. Pohl, Tetschen a Elbe; Adolf Rack, Vienna; Jenny F. W. Schindler, Kemsmelbach, near Bregenz; Alois Schneider, Mariasheim (Bohemia); Wilhelmine Semler, Vienna; Ottokar Skrivan, Prague; Anton Springer, Kasten (Lower Austria); Rudolf Tanczos, Vienna; Johann Weisseneck & Co., Vienna, and Alois Winkler & Co., Vienna.

### CANADA.

**GROUP 167.**

1. Daly, Alexander F., Montreal. Mariner’s compass.


**GROUP 173.**

### CEYLON.

**GROUP 160.**

1. Ceylon Commission. Models of Vedda man and woman, with articles used by them.


**GROUP 162.**


**GROUP 163.**


**GROUP 164.**

6. Ceylon Commission. Figure of Buddhist monk, devil-dancers’ masks.


**GROUP 169.**


**GROUP 171.**

10. Ceylon Government (presented by the Sultan). Articles illustrating the progress and conditions of life in Ceylon.
### DENMARK.

**GROUP 159.**

1. Petersen, Magnus, Copenhagen. Archæological engravings. Dept. L

### GERMANY.

**GROUP 164.**

1. Ferlings, F., Crefeld. Ecclesiastical vestments and textures.
2. Fischer, Carl, Munich. Colossal crucifix; images of saints.
3. Fischer, Th., Crefeld. Images of saints on copper plates.
5. Gotzes, Th., Crefeld. Ecclesiastical objects and textures.
9. Lang, Gg. sel. Erben, Oberammergau. Crucifixes, religious groups, altar, etc.
15. Rieppel, Marianne, Firma. Ferd. Rieppel, Munich. Embroidered mass robe, etc.
22. Werner, Franz P., Munich. Ecclesiastical banners, etc.

**GROUP 165.**

27. Schwarzenberg, C., Munich. Reproductions of ancient arms and armors.

**GROUP 168.**


**GROUP 169.**

30. Ministerium fuer Elsas-Lohringan, Stranburg-Alsace. Relief model representing the vicinity of Sewen.

**GROUP 170.**


**GROUP 171.**

33. Niebler, Alois, Munich. Ancient German chairs and table.

### ITALY.

**GROUP 168.**

NORWAY

GROUP 166.

1. Norwegian Commission. Viking ship "Norwegian," an exact reproduction of the vessel exhumed in 1880 from a mound at Gogstad, near Sandefjord, Norway, now preserved in the university at Christiania and known as the Gogstad-ship. In a sepulchre built in the vessel were found human remains, and it is supposed by archaeologists that the vessel was buried with its Viking-chief in the mound, about the year 900. The fac-simile sailed from Norway via New York to Chicago, under the command of Capt. Magnus Anderson.

SWEDEN.

GROUP 159.

1. Nordenskiold, G., Jr., Stockholm. Model of an estua and photographs of cliff dwellings of Colorado. 941

GROUP 165.

2. Battzer, C. E. L., Gothenburg. Rock engravings of Bohuslan, Sweden; cartoons, etc.
3. Beskow, Bernhard, Gothenburg. Old Scandinavian ornaments; scenes from Viking life; barrow with runic stone.

GROUP 166.


GROUP 167.


GROUP 168.


GROUP 172.

10. Ahnrberg, Mrs. Ebba, Upsala. Antimacassars and sofa and chair covers in guipure lace work.
15. Committee of Swedish Ladies, Stockholm. History and statements of the social position of women in Sweden; statistics of female students at University of Sweden; women's work in schools, public service, trade, industry, hospitals, philanthropy, etc.; works and portraits of female Swedish authors, artists and musicians; album of female art-industry.
17. Handarqetets Vanner, Stockholm. Hangings, draperies, cushions, tapestries, carpets, screens, counterpanes, embroideries, etc.
19. Ingslotz, Miss Aurord, Wadstena. Pillow lace.
22. Lindberg, Miss Lydia, Stockholm. Portfolio of embossed leather.
23. Lundin, Hulda, Stockholm. Articles made by public school children, showing system of teaching needle-work.
27. Olsson, Miss Bengta, Bjerrod. Gobel in tapestry.
28. Olsson, Mrs. Cilluf, Kjefinge. Linen hangings and table cover.
29. Pettersson, Mrs. Iilda, Stockholm. Glass etchings and designs, cups, etc.
30. Randel, Miss Ch., Wadstena. Pillow lace and silk embroidery.
34. Wengberg, Miss Clara, Helsingborg. Lace border for handkerchief.
35. Widsbeck, Misses Maria and Wastberg, Stockholm. Psalms in church-text on parchment.

GROUP 173.

38. Svenska Turistforeningen, Stockholm. Exhibits showing Swedish nature and culture, development of transportation, money-system, topography, the press decorative orders, sports, athletics, etc.
For Fine Book and Pamphlet Work, Periodical Folders.

MANUFACTURED BY

CHAMBERS BROTHERS COMPANY,
PHILADELPHIA, PA., U. S. A.

MONTAGUE & FULLER, GENERAL AGENTS,
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Single Machines make from 10,000 to 100,000 bricks per day.

CHAMBERS BROTHERS COMPANY,
PHILADELPHIA, PA., U. S. A.

CHICAGO WAREROOM, 203 SOUTH CANAL STREET.
DEPARTMENT N—FORESTRY.

THE forest resources of the world are exhibited in the Forestry Building, which is one of the most interesting and unique structures on the grounds. It is made of every State and has a colonnade composed of tree trunks sent from almost every State in the Union. For instance: Arkansas furnished pine, white oak, red oak and sassafras; California, sugar pine, redwood and trunks of the young sequoia; Delaware, red cedar, white oak and white ash; Kansas, burr oak, hickory, huckleberry, sycamore and walnut; Minnesota, white pine, sugar maple, ash, oak, cottonwood, spruce, box cedar, tamarack and elm; Wisconsin, pine, white oak, basswood, elm, birch and spruce. Vestibule of yellow pine, artistic in design and erected by the Southern Lumber Manufacturer’s Association has been constructed entrance. It is located eastern portion of its dimensions are with a central feet. Surrounding spacious portico each of the colonnade of three columns composed of three State contributions by the various states and Canada, characteristic contains a tablet, graved the name of the State, furnishing estimate when futility of such timber. The sides, windows present a flagstaffs bear foreign governments sides of the building. The exhibits group 19 of the official classification embrace a variety of forest products including samples of wood and timber; ornamental woods, dye-woods, barks and vegetable substances; gums and resins; medicinal roots and herbs; wood pulp, paper and wooden ware; seed collections; statistics of the lumber trade and of forestry, etc., the whole being of great interest to visitors.
REFERENCE PLAN FOR LOCATING EXHIBITS
IN THE FORESTRY BUILDING
WORLD'S Columbian Exposition

KEY TO INSTALLATION.
For the purposes of installation of exhibits in the Forestry Building, the floor is laid off in sections lettered A, B, C and D. Beginning at the north entrance a main aisle runs through the center of the building. To the left, beginning at the center, sections are lettered A and numbered from 1 to 13 northward. To the right they are lettered C and numbered from 1 to 13 northward. Starting from the center again the sections to the right are lettered B and numbered from 1 to 13 southward, and to the left they are lettered D and numbered from 1 to 13 southward.
CLASSIFICATION.

FOREST AND FORESTRY DEPARTMENT (N).

GROUP 19.

FORESTRY, FOREST PRODUCTS.

Class 99. Logs and sections of trees; samples of wood and timber of all kinds generally used in construction or manufactures, either in the rough or hewed, sawed or split, including square timber, joists, scantling, plank and boards of all sizes and kinds commonly sold for building purposes. Also ship timber, as used in ship-building, or for masts and spars; piles, timber for fencing, for posts, for paving or for timbering mines. Miscellaneous collections of wood.

Class 100. Worked timber or lumber, in form of clapboards, shingles, sheathing or flooring casings, moldings, stair rails or parts of furniture.

Class 101. Ornamental wood used in decorating and for furniture; veneers of hard and fancy woods; mahogany logs, crotches and veneers; rosewood; satin-wood, ebony, birds-eye maple, madrona, black walnut veneers and other fancy woods suitable for, and used for ornamental purposes.

Class 102. Timber prepared in various ways to resist decay.

Class 103. Dyeing, tanning and coloring—dye-woods, barks, and various vegetable substances in their raw state, used for dyeing and coloring, such as logwood, Brazil wood, mimosa, gamboge, logwood, logwood, gum, tint, sumac, orange, etc.

Barks of various kinds, Brazilian, acacias, oak, hemlock, murici, bicida, gordonia. Galls, excrescences and abnormal woody products. Mosses used for dyeing and coloring.

Class 104. Cellular substances—corks and substitutes for cork of vegetable growth; porous woods for special uses, pith, rice-paper, etc.

Class 105. Lichens, mosses, pulu, ferns and vegetable substances used for bedding, for upholstery, and for mechanical purposes, as teasels, Dutch rushes, scouring grass, etc., "Excelsior."

Class 106. Gums, resins, vegetable wax or tallow wax, including caoutchouc, gum senegal, tragacanth, Arabic, mesquite gum, myrrh, copal, etc.

Class 107. Seeds and fruits, for ornamental purposes; vegetable ivory, coquilla nuts, cocoa-nut shells, ganitrus beads, bottle gourds, etc.

Class 108. Medicinal: roots, herbs, barks, mosses, berries, etc.

Class 109. Wood pulp, for making paper and other objects.

Class 110. Paper and wooden ware generally, as pails, tubs, platters, brooms, cooper's stock.

Class 111. Basket industry—willow-ware, etc.

Class 112. Rattan, bamboo and cane work in part. (For rattan furniture, see also Group 90.)


Class 114. Timber culture—Plant material—Conifers, seedlings, and transplants. Broad-leaved trees. Seedlings, transplants of various sizes, cuttings. Seed collections and means for storing seed. Means employed in gathering and preparing seed and other plant material for the market, and seed testing.


Exhibits showing relation of forests to climate.
Literature and educational means.

Class 117. Lumbering and harvesting of forest products. The lumbering industry. Logging and transportation. Implements, machines, plans, drawings, and statistical material. Loggers' tools, stump-pulling devices, marking devices, measuring tools. Loading devices, sleds, flumes, slides, rope tram-ways, railroads, methods of water transportation, rafts, booms, etc.
The tan-bark industry. Other barks.
The turpentine industry.
The charcoal industry.

### UNITED STATES.

#### GROUP 19.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Albro, E. D., Co., Cincinnati.</td>
<td>Cabinet woods and veneers.</td>
</tr>
<tr>
<td>4</td>
<td>Compound Lumber Co., Chicago.</td>
<td>Hardwood doors.</td>
</tr>
<tr>
<td>5</td>
<td>Garrison Wood Turning Co., Chicago.</td>
<td>Balusters, spindles and woodturnings, etc.</td>
</tr>
<tr>
<td>6</td>
<td>Hartwell, Edwin S., Chicago.</td>
<td>Lumber and shingles.</td>
</tr>
<tr>
<td>8</td>
<td>Korbé, F., &amp; Bros., San Francisco.</td>
<td>Redwood tanks.</td>
</tr>
<tr>
<td>10</td>
<td>Mathieu, Josephine, Chicago.</td>
<td>Apparatus for manufacturing charcoal, wood alcohol, etc.</td>
</tr>
<tr>
<td>12</td>
<td>National Ladder Co., Clyde, Ill.</td>
<td>Woodware.</td>
</tr>
<tr>
<td>13</td>
<td>Oshkosh Logging Tool Co., Oshkosh, Wis.</td>
<td>Loggers and lumbermen's tools.</td>
</tr>
<tr>
<td>16</td>
<td>Richmond Cedar Works, Richmond, Va.</td>
<td>Woodware.</td>
</tr>
<tr>
<td>20</td>
<td>Two Rivers Mfg. Co., Two Rivers, Wis.</td>
<td>Wooden tubs and pails.</td>
</tr>
<tr>
<td>21</td>
<td>United Indurated Fibre Co., Chicago.</td>
<td>Pails, washtubs, measures, basins, vases, etc.</td>
</tr>
<tr>
<td>23</td>
<td>Wood, Mrs. Eliza A., Easton, N. Y.</td>
<td>Mop pails.</td>
</tr>
</tbody>
</table>

#### INDIANA.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Board of World's Fair Managers, Indianapolis.</td>
<td>Specimens of native woods.</td>
</tr>
<tr>
<td>2</td>
<td>Board of World's Fair Managers, Indianapolis.</td>
<td>Maps, showing distribution, charts, showing relative amounts of most important forms.</td>
</tr>
<tr>
<td>3</td>
<td>Indiana Novelty Co., Plymouth.</td>
<td>Exhibit of hardwoods.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Abbott, J. H., Louisa.</td>
<td>Rhododendron.</td>
</tr>
<tr>
<td>2</td>
<td>Allen, A. W., Glasgow.</td>
<td>Paw-paw.</td>
</tr>
<tr>
<td>3</td>
<td>Arnold, S. M., Greenville.</td>
<td>Locust.</td>
</tr>
<tr>
<td>5</td>
<td>Atkins, L. S., Louisa.</td>
<td>Laurel.</td>
</tr>
<tr>
<td>6</td>
<td>Atkinson, John B., Earlington.</td>
<td>Oak.</td>
</tr>
<tr>
<td>8</td>
<td>Ballentine, Henry, Rumsey.</td>
<td>Osier.</td>
</tr>
<tr>
<td>9</td>
<td>Basseet, R. J. &amp; Bros., Litchfield.</td>
<td>Gum.</td>
</tr>
<tr>
<td>10</td>
<td>Big Sandy Lumber Co., Catlettsburg.</td>
<td>Pine.</td>
</tr>
<tr>
<td>11</td>
<td>Black, Q. D., Barboursville.</td>
<td>Oak.</td>
</tr>
<tr>
<td>15</td>
<td>Bros, R. M., Ashland.</td>
<td>Oak.</td>
</tr>
<tr>
<td>20</td>
<td>Campbell, Geo. W., Bowling Green.</td>
<td>Oak and coffee tree.</td>
</tr>
<tr>
<td>21</td>
<td>Campbellsville Lumber Co., Campbellsville.</td>
<td>Chestnut.</td>
</tr>
<tr>
<td>22</td>
<td>Carey &amp; Marble, Owensboro.</td>
<td>Walnut.</td>
</tr>
<tr>
<td>23</td>
<td>Castleman, John B., Louisville.</td>
<td>Oak.</td>
</tr>
<tr>
<td>24</td>
<td>Chamberlain, J. B., Greensburg.</td>
<td>Cedar.</td>
</tr>
<tr>
<td>26</td>
<td>Choate, Wakefield, Frankfort.</td>
<td>Ash.</td>
</tr>
<tr>
<td>27</td>
<td>Clark Planing Mills Co., Ashland.</td>
<td>Box elder.</td>
</tr>
<tr>
<td>28</td>
<td>Cloves, Joseph, Sons, Frankfort.</td>
<td>Oak.</td>
</tr>
<tr>
<td>29</td>
<td>Coale, Jarrett, Paw Paw.</td>
<td>Plum.</td>
</tr>
<tr>
<td>31</td>
<td>Cole, Columbus, Woodbury.</td>
<td>Beach.</td>
</tr>
</tbody>
</table>
THE OFFICIAL DIRECTORY.

DEPARTMENT N.—FORESTRY.

33. Collins & Murphy, Macedonia. Hazel-nut. 99
37. Dean & Barrockett, Flat Lick. Elm. 99
38. Dodge & Tarr, Lexington. Huckleberry. 99
39. Elliott, Green, Barboursville. Maple. 99
40. Fagan, G. W., Pine Hill. Laurel. 99
41. Fiers, J. B., Bear Wallow. Sorrell. 99
42. Fuqua, J. A., Owensboro. Oak. 99
44. Gant, H. C., Mammoth Cave. Oak. 99
45. Gotthif & Chestnut, Corbin. Poplar. 99
47. Hale, A. E., Flat Lick. Elm. 99
52. Hoge, Chas. E., Frankfort. Oak. 99
55. Hunter & Martin, Litchfield. Gum. 99
56. Ingram, Frank & Co., Louisville. Ironwood. 99
57. Ingram Lumber Co., Drakesboro. Thorn. 99
58. Johnson & Bowling, Guthrie. Gum. 99
59. Kelly, H. R., Barboursville. Maple. 99
60. Kentucky Lumber Co., Burnside. Cherry. 99
63. Kountz, S., Frankfort. Oak. 99
64. Lanham & Bar, Lebanon. Sassafras. 99
65. Langley, Lewis, Clarkson. Pine. 99
67. Lindsay, R. S., Newstead. Haw. 99
68. Lingut, John, Lexington. Buckeye. 99
70. Louisville Speke Co., Louisville. Oak. 99
71. Louisville Stave & Lumber Co. Birch. 99
72. Lucas, F. M., Covington. Poplar. 99
73. Mammoth Cave R. R. Co., Mammoth Cave. Box of oak. 99
75. Mark, M. B., Morehead. Birch. 99
76. Maysville Mfg., Maysville. Oak. 99
77. McKeehan, E. Y., Corbin. Aspen. 99
79. Meredith, Frederic, Bee Spring. Chestnut. 99
82. Moriarty, P., Ashland. Holly. 99
83. Morton Bros., Drakesboro. Elm. 99
84. Nash, P., Milwood. Alder. 99
86. Nummely, G. H., Georgetown. Ash. 99
87. Ohio Scroll & Lumber Co., Covington. Sycamore. 99
90. Parker, James, Bryant's Store. Basswood. 99
91. Payne & Graves, Ogden. Haw. 99
93. Pence, W. S., Frankfort. Red bud. 99
95. Preston, A., Richardson. Osier. 99
96. Pritchard, R. H., Catlettsburg. Oak. 99
98. Proctor & Troutman, Louisville. Red birch. 99
101. Ruby, J. E., Madisonville. Witch hazel. 99
103. Runyon, James, Ashland. Maple. 99
104. Saller, W. J., Danville. Thorn. 99
107. Singer Mfg Co., Cincinnati, Ohio. Walnut. 99
110. Soudy, J. H., Louisa. Magnolia. 99
111. Spotswood, E. H., & Son, Lexington. Magnolia. 99
114. Stevens, Geo. & Co., Greenup. Sturttia. 99
115. Stone, John E., Litchfield. Chestnut. 99
116. Stone, J. K., Newport. Sorrell tree. 99
117. Tamlin, J. E., Somerset. Willow. 99
120. Trig, H. C., Glasgow. Oak. 99
121. Vannmeter, Mrs. Mary, Bowling Green. Oak. 99
MISSOURI.

GROUP 19.

2. Bedford, Mr., Bloomfield. Elder. 99
3. Blevins, Mr., Varner. Black oak, hercules club, service berry. 99
4. Board of World's Fair Managers, Jefferson City. Blue ash, aspen, buckeye, catalpa, black wild cherry, dogwood, gum, hackberry, hickory, holly, linden, maple, pine, poplar, red bud, sassafras, willow alder, bittersweet, blackberry, haw brunichia, rattan, Carolina rose, prairie rose, saw-briar, sheepberry, St. Johns-wort, strawberry bush, sumach, trachelospermum, trumpeter creeper, waahoo, wafer ash, wisteria, oak, buckthorn, button bush, chokeberry, cissus, corkwood, crabapple, cross vine, dewberry, elder, sparkleberry, forestiera, grape, greenbrier, wild hydrangea, arrowroot, itea, kinnikinnick, moonseed, pipemine, planetree, wild plum, raspberry. 113
5. Boyden & Wyman, Meelyville. Gum, hackberry, hickory, silver maple, cow, white and willow oak. 99
6. Buck, Mr., Bloomfield. Laurel and pin oak, black and white walnut. 99
9. Harrison, Mr., Idalia. Beech, elm. 99
15. Wilson, Mr., Idalia. Cucumber tree. 99

OHIO.

GROUP 19.

1. Avery, A., Rome. Elm trees. 99
2. Beery, E., Sugar Grove. Birch trees. 99
3. Board of World's Fair Managers, Columbus. a Paw-paw, maple, elder, red bud, coffee nut, locust, plum, haw, black thorn, sour-wood, ash, elm, hackberry, sycamore, hickory, birch, beach, oak, chestnut, black willow, asper, pine. Also polished specimens. 99
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GROUP 19.

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GROUP 19.


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   Black oak. 99


10. Davis, Mrs. H., Irving. White oak, hackberry. 99


15. Hiti, D., New Holstein. Hyslop crab. 99


18. Kimball & Clark, Kimball. Black ash, hemlock, black birch. 99


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GROUP 19.

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GROUP 19.

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51. Yaroku Sato, Aomori. Lacquer. 106
52. Yasuhachi Noguchi, Kagawa. Bamboo cups. 111

SWEDEN.

GROUP 19.

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2. Gustafsfor Fabrikers Aktiebolag, Gustafsfor. a Wood pulp. 109
3. Gustafsfor Fabrikers Aktiebolag, Gustafsfor. b Wrapping paper. 110
4. Henriksson, J., Mellerud, Elfsborg. Forest seed. 114
5. Laxa Brucks Aktiebolag, Laxa. Wood pulp, cellulose. 109
7. Paykull, Gustaf, Knivsta. Pine and spruce seed. 114
8. Posse, Knut, Berggvara. Fir and spruce seed. 114
DEPARTMENT C.—LIVE STOCK.

AMPLE preparations have been made to care for the Live Stock interests at the Exposition. A premium list appropriating $150,000 has been prepared, and a number of the Live Stock associations have offered supplemental premiums for respective breeds, ranging from $200 to $10,000 each. Reports from foreign countries render certain that the exhibit will bring together the most remarkable collection of pure bred animals ever witnessed in the history of exhibitions. The exhibit will also comprise specimens of wild animals, song birds, and birds of plumage from this country and from abroad.

The Live Stock exhibit will open in June, with a kennel show, lasting six days, followed in August, September and October by the exhibition of horses, cattle, sheep, swine, poultry, pigeons, etc. While care will be taken to secure specimens of the best established breeds, the rules are sufficiently liberal to permit the entry of animals from every part of the world which have such characteristics as to make them objects of interest to visitors. The liberal money premiums, besides the medals and diplomas to be awarded, have stimulated a widespread interest in this exhibit.

The Live Stock Pavilion is located at the rear of the colonnade which connects the Machinery Hall with the Agricultural Building, the large arch in the center of the colonnade being the main approach to this pavilion. The extreme measurements of the pavilion are 300x440 feet, it, therefore, covers an area of over three acres. The general arrangement of this magnificent pavilion is the same as the ever famous Colosseum at Rome, the architecture of the former being Romanesque and the latter purely classic of the Doric order. There is very little ornament on this building save the balustrade which tops the cornice. The building is constructed of frame work covered with stucco. The contracts were let for the entire building at $50,000. The seating capacity is 6,000. The center is used as a large arena for the purpose of parading live stock, and on certain days when not used for this purpose, will be used by the North-American Turner-Bund for exhibitions. Under the amphitheatre are the offices of the different bureaus pertaining to the department and also offices for the different live stock associations, the National Grange, the National Farmers’ Alliance, etc.

This department was placed under the charge of Chief Buchanan, of the Department of Agriculture, and under his supervision the work has been carried on all over the world, but principally in the United States. Horses and sheep will be shown from France, horses from Russia, sheep from Australia, and all kinds of live stock from Canada and nearly every state in the United States.

The superintendent of the kennel division is James Mortimer, of Long Island; superintendent of sheep division, A. M. Garland, of Illinois; superintendent of cattle division, J. B. Dinsmore, of Nebraska. Superintendents of the horse, poultry and swine divisions are yet to be appointed.

The Kennel Exhibit begins June 12th and lasts six days.

The exhibit of horses and cattle begins August 21st and lasts one month.

The exhibit of sheep and swine begins September 25th and lasts till October 14th.

The exhibit of poultry and fat stock begins October 16th and lasts till October 28th.
EVANS-SNIDER-BUEL COMPANY

CAPITAL, $200,000. SURPLUS, $141,000.

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C. A. SNIDER, Treasurer.
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CLASSIFICATION.

DEPARTMENT C.

LIVE STOCK—DOMESTIC AND WILD ANIMALS.

GROUP 27.

HORSES, ASSES, MULES.

Class 193. Draft horses—all breeds.
Class 194. Coach horses.
Class 195. Trotting horses.
Class 196. Thoroughbred horses.
Class 197. Saddle horses.
Class 198. Hunters.
Class 199. Educated and trick horses.
Class 200. Ponies.
Class 201. Jacks and jennets.
Class 203. Literature and statistics; copies of the constitution and by-laws of national horse breeding associations.

GROUP 28.

CATTLE.

Class 204. Beef.
Class 205. Dairy.
Class 206. For general purposes.
Class 207. Oxen.
Class 208. Crosses of cattle with buffalo, etc.
Class 209. Collection of brands and registers of brands and marks, with implements of herding, tying, etc.

GROUP 29.

SHEEP.

Class 210. Fine wooled sheep.
Class 211. Combing wooled sheep.
Class 212. Middle wooled sheep.
Class 213. Sheep for mutton.

GROUP 30.

GOATS, LLAMA, CAMELS AND OTHER DOMESTICATED ANIMALS.

Class 214. Goats, camels, elephants, llama, vicugna, alpaca, guanaco, yaks, etc.

GROUP 31.

SWINE.

Class 215. Swine of all varieties.
Class 216. Methods of raising, feeding, fattening, breeding, killing and packing. Statistics, literature and history of the industry.

GROUP 32.

DOGS.

Class 217. Hunting, watch, coach, pet and all other varieties, of dogs.
Class 218. Dog collars, chains, muzzles, etc.
Class 219. Breeding kennels, bench shows, registers, standards and literature.

GROUP 33.

CATS, FERRETS, RABBITS, ETC.

Class 220. Breeds of the domestic cat; illustrations of uses and value.
Class 221. Ferrets and their uses.
Class 222. Rabbits, and methods of raising and hunting, and of their destruction as pests.

GROUP 34.

POULTRY AND BIRDS.

Class 223. The breeds of poultry and pigeons, and all domesticated birds. Poultry Shows. Standards of perfection, literature.
Class 224. Fowls and capons.
Class 225. Ducks and geese. Swans.
Class 226. Turkeys.
Class 227. Pigeons and pigeon lofts. Homing pigeons.
Class 228. Guinea fowls, pea-fowls, ostriches, etc.
Class 230. Birds of all countries, alive and as stuffed specimens. Taxidermy. Methods and appliances.
Class 231. Poultry and bird houses, and their fittings. Incubators and brooders.
Class 232. Poultry and eggs for market. Feathers, down, quills, and all products. Methods of and appliances for packing and transportation. Prices. Statistics, etc.

GROUP 35.
INSECTS AND INSECT PRODUCTS.

Class 233. Leeches, leech culture; methods and statistic.
Class 234. Care of the cochineal bugs. Gathering and primary preparation of cochineal.
Class 235. Other insects, useful or injurious. Apparatus for the destruction of injurious insects; insecticides and methods of application.

GROUP 36.
WILD ANIMALS.

Class 236. Animals of all countries, alive and as stuffed specimens.
Class 237. Methods of collecting, housing, caging, etc. Protection of wild animals and game.
Class 238. Game preserves, copies of game laws and regulations.

[Note.—Inasmuch as the Live Stock exhibit does not begin until June 1st, as stated in a preceding page, no directory of exhibitors appears in this edition.]