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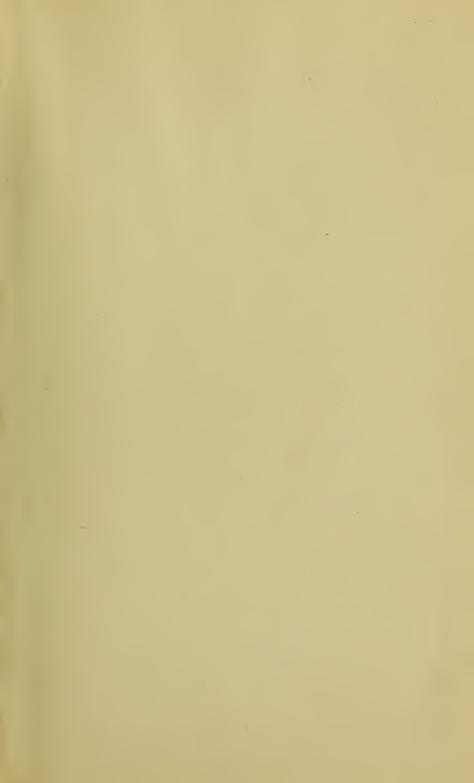


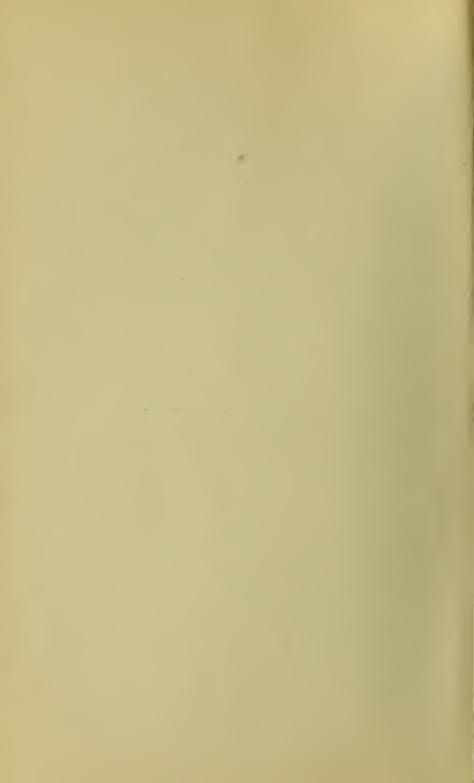




Class\_\_\_\_\_

Book \_\_\_\_\_





# CLASSIFICATION

OF THE

# World's Columbian Exposition

CHICAGO, U.S. A., 1893.

ADOPTED BY THE

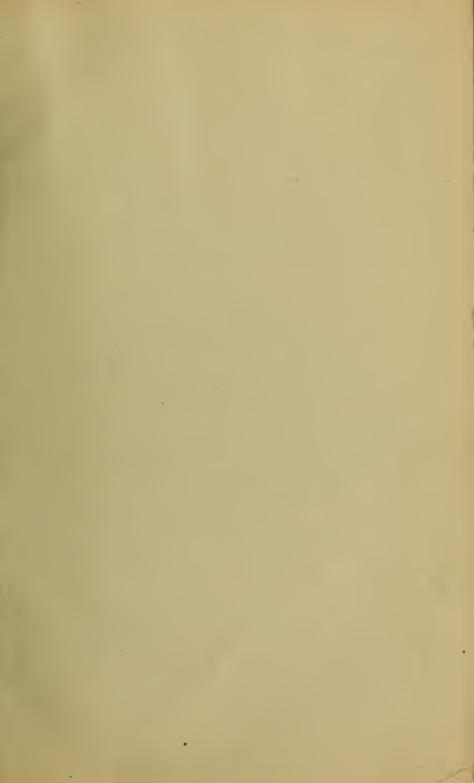


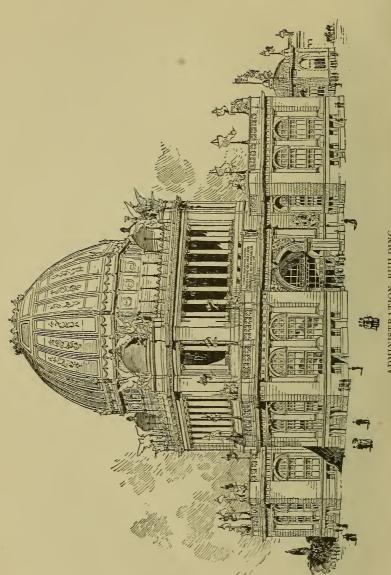
WORLD'S COLUMBIAN COMMISSION.

CHICAGO

DONOHUE & HENNEBERRY, PRINTERS AND EINDERS







ADMINISTRATION BUILDING.

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# DEPARTMENTS.

A—AGRICULTURE, FOOD AND ITS ACCESSORIES, FORESTRY AND FOREST PRODUCTS, AGRICULTURAL MACHINERY AND APPLIANCES.

B-HORTICULTURE.

C-LIVE STOCK: DOMESTIC AND WILD ANIMALS.

D—FISH, FISHERIES, FISH PRODUCTS, AND APPA-RATUS OF FISHING.

E-MINES, MINING, AND METALLURGY.

F-MACHINERY.

G—TRANSPORTATION: RAILWAYS, VESSELS, VEHICLES.

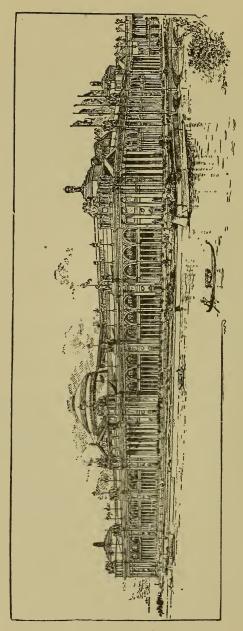
H-MANUFACTURES.

J-ELECTRICITY AND ELECTRICAL APPLIANCES.

K—FINE ARTS: PAINTING, SCULPTURE, ARCHITECT-URE, DECORATION.

L—LIBERAL ARTS: EDUCATION, ENGINEERING, PUB-LIC WORKS, CONSTRUCTIVE ARCHITECTURE, MUSIC AND THE DRAMA.

M—ETHNOLOGY, ARCHÆOLOGY: PROGRESS OF LABOR AND INVENTION. ISOLATED AND COLLECTIVE EXHIBITS.



AGRICULTURAL BUILDING.

# DEPARTMENT A.

AGRICULTURE, FOOD AND ITS ACCESSORIES, FORESTRY AND FOREST PRODUCTS. MACHINERY AND APPLIANCES.

# GROUP 1.

# CEREALS, GRASSES AND FORAGE PLANTS.

- Ciass 1. Wheat and its culture.

  Varieties of wheat grown in America and abroad.

  Statistics of products and of prices.
- Class 2. Indian corn—all varieties.

  Illustrations of methods of planting, tilling and harvesting. Statistics of products and of prices.
- 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 9. Forage plants—clover, alfalfa, cow-pea, cornstalks.
- Class 10. Ensilage—silos, etc.
- Class 11. Flours, meals, decorticated grains, grits, etc.

#### GROUP 2.

BREAD, BISCUITS, PASTES, STARCH, GLUTEN, ETC.

- Class 12. Bread and its manufacture; baking powder, yeast and its preparations.
- Class 13. Cakes and pastry.

- Class 14. Biscuit industry, crackers of all kinds.
- Class 15. Italian paste, semolino, vermicelli, macaroni, etc.
- Class 16. Starch and its manufacture from all sources; from cereals, tubers, arrow-root, plantain, cassava, zamia, 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, pâtés, 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.
  - Apparatus and methods of transporting and delivering milk and cream.
  - Concentrated or partly evaporated milk. (For condensed milk, see Class 39.)
- Class 42. Butter.
- Class 43. Cheese and its manufacture.
- Class 44. Dairy fittings and appliances—churns for hand and power, butter workers, cans 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.
- Class 46. Hops; culture, statistics, etc.
- Class 47. Peppers, cloves, cinnamon and other spices.

- Class 48. Tobacco in the leaf, and tobacco not manufactured.
- Class 49. Machines and appliances for the curing of tobacco and for the manufacture of tobacco, cigars, cigarettes and snuff.
- Class 50. Insecticides. Methods and appliances for the destruction of the tobacco worm and other parasites.
- Class 51. Commercial forms of chewing and smoking tobacco.
- Class 52. Cigars, cigarettes and snuff.

# 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 54. Methods of planting and culture.
- Class 55. Machines and appliances for planting, cultivating, picking, ginning and baling.
- Class 56. Cotton seed and its uses.
- Class 57. Remedies and appliances for destroying insects.
- Class 58. Literature, history and statistics.
- Class 59. Hemp, flax, jute, ramie and other vegetable fibres not enumerated, in primitive forms and in all stages for spinning.
- Class 60. Wool in the fleece, in sacks and in bales.
- Class 61. Silk worms, silk in the cocoon; apparatus and appliances used in silk culture.
- Class 62. Hair as a textile material.

### GROUP 10.

PURE AND MINERAL WATERS, NATURAL AND ARTIFICIAL.

Class 63. Distilled water, for use in the arts and for drinking.

- Class 64. Spring water, mineral water, natural and artificial. (See also Group 48.)
- Class 65. Aerated waters.

### GROUP 11.

### WHISKIES, CIDER, LIQUEURS AND ALCOHOL.

- Class 66. High wines-whisky and its manufacture.
- Class 67. Rum and other distilled spirits, as saki, samshoo, etc.
- Class 68. Alcohol—pure spirits.
- Class 69. Cordials and liqueurs.
- Class 70. Bitters and mixed alcoholic beverages.
- Class 71. Cider and vinegar.

# GROUP 12.

### MALT LIQUORS.

- Class 72. Preparation of the grain. Malt and extracts of.
- Class 73. 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, clod crushers, rollers, harrows, etc. Steam-power machinery—plows, breakers, harrows, 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 headers, 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 baling 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 FERTIL-IZING 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 masons' 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.

### 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, birdseye 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, peach wood, fustic, sumac.

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 upholstering, or for mechanical purposes, as teazles, 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.

  Miscellaneous products.
- Class 109. Wood pulp, for making paper and other objects.
- Class 110. Paper and wooden ware generally, as pails, tubs, platters, brooms, coopers' 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 113. Forest botany—distribution of forests, of genera, of species (maps).

Wood sections and herbarium specimens of the economically important timber trees.

Seed collections, not herbarium—etc.

Illustrations of forest growth, typical trees, botanical features.

Anatomy and structure of woods. (Veneer sections and photo-micrographs.

Peculiarities of forest growth -- Cypress-knees, burls.

Diseases of forest trees and timber. Injurious insects.

Class 116.

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.

Forest management.—Maps, plans, illustrations.

Class 115. Timber culture and cultivation.—Implements for the cultivation of the soil. Special adaptations. Sowing machines and tools.

Implements and machines used for planting.

Implements used in after-culture. Means of protection against insects, animals, climate.

Seed-beds and other graphic illustrations of nursery practice.

calculations illustrating forest management.
Instruments for measuring standing timber.
Growth of different ages and soils. Graphic or other illustrations showing rate of growth.
Graphic or other illustrations showing influence of various managements on tree-growth.
Statistics of lumber trade and of forestry.
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.

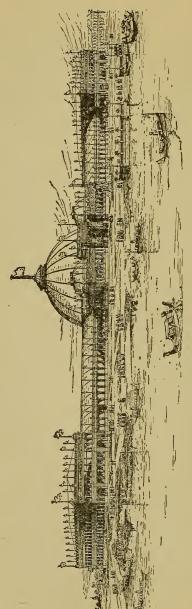
The tan-bark industry. Other barks.

The turpentine industy.

The charcoal industry.

Class 118. Preparation and manipulation of lumber. Dressing, shaping and preparation of wood. Hewing of logs, spars, etc. Shaping of knees. Sawing and milling.

Drying and seasoning of wood, kiln-drying, steambending, etc.



HORTICULTURAL BUILDING.

# 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.

#### GROUP 21.

# 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, pineapples, 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 glacéd.
- 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 desiccating; 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.

# GROUP #2.

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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. Cactaceæ.

Class 163. Aquatic plants.

Class 164. Native wild plants and flowers.

Class 165. Ornamental grasses and reeds.

Class 166. Rare exotic plants.

Class 167. Cut flowers. Floral designs, pressed flowers, leaves, sea-weeds and bouquets.

Class 168. Plants grown for commercial purposes.

Class 169. Receptacles for plants, flower pots, plant boxes, fern cases, tubs, jardinieres, plant and flower-stands, ornate designs in flower-stands.

Class 170. Literature, history and statistics.

Class 171. Miscellaneous.

### GROUP 23.

# CULINARY VEGETABLES.

- Class 172. Leguminous; cereal and fruit-like vegetables.

  Beans, peas, okra, peppers, tomatoes, cucumbers, squashes, pumpkins, melons, etc.
- Class 173. Radicaceous and tuberous vegetables. Beets, turnips, carrots, potatoes, radishes, etc.
- Class 174. Vegetables cultivated for their leaves and sprouts.

  Cabbage, lettuce, rhubarb, spinach, endive, asparagus, etc.
- Class 175. Miscellaneous culinary vegetables not included in the above.
- Class 176. Vegetables dried or in cans or glass.
- Class 177. Pickles, champignons, truffles, chutney, mustard, etc.
- Class 178. Methods for preserving vegetables by cold storage or chemical appliances, their keeping, packing, and shipping.

# GROUP 24.

### STEDS, SEED RAISING, TESTING, AND DISTRIBUTION.

- Class 179. Display of vegetable and flower seeds, grown in different latitudes.
- 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.
- Class 183. Methods of testing vitality of seeds, as practiced by different seed houses.
- Class 184. Tree and shrub seeds, and seeds used for condiments and medicines.

# GROUP 25.

### ARBORICULTURE.

- Class 185. Ornamental trees and shrubs. Methods of growing, transplanting, etc.
- Class 186. Fruit trees and methods of raising, grafting, transplanting, pruning, etc. Means of combatting insects and other enemies.
- Class 187. Nurseries and the nursery trade.

### GROUP 26.

### APPLIANCES, METHODS, ETC.

- Class 188. Hot houses, conservatories, methods of construction, management and operation."
- Class 189. Heating apparatus for hot-houses and conservatories.
- Class 190. Seats, chairs and adjuncts for the garden and conservatory.
- Class 191. Ornamental wire-work, trellises, fences, borders, labels for plants and trees, etc.
- 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. Rock-work grottoes; rustic construction and adornment for private gardens, and public grounds. Planting, fertilizing, cultivating, and appliances:



### 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 202. Mules.

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. Collections 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 229. Pheasants and other ornamental birds. Pet birds in general. Cages.
- 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 statistics.
- 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.





# DEPARTMENT D.

FISH, FISHERIES, FISH PRODUCTS, AND APPARATUS OF . FISHING.

# GROUP 37.

FISH AND OTHER FORMS OF AQUATIC LIFE.

Class 239. 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. Algæ, 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 253. History of fishing, fishery laws, and fish commerce.

Ancient fishing implements or their reproductions. Models, pictures, books, emblems.

Charters and seals of ancient fishermen's guilds.

Fishery laws of different countries.

Copies of treaties, conventions, etc., dealing with international fishery relations.

Reports, statistics, and literature of fish, fishing and fisheries. Reports of acclimatization of fish and of attempts in that direction.

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 seines, rakes and dredges, and materials used in their manufacture.

Class 258. Fish traps, weirs, and pounds.

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 263. History and literature of angling. Waltonian literature. Folk-lore. Angler's trophies.
- 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, Groups 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.

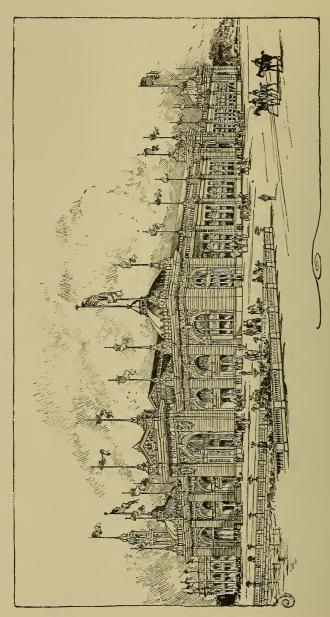
- Class 273. All products prepared from fish, such as oils, roes, isinglass, etc.
- Class 274. Antiseptics suitable for preserving fish for food.
- Class 275. Oils, manures and other products prepared from fish.
- Class 276. Methods of, and models, and other representations of appliances for preparing 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 shell-fish 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 285. Diseases of fish, with special reference to their origin and cure. Models and drawings.
- 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 288. Acclimatization of fish. Marking of introduced fish for purposes of identification.
- Class 289. Statistics of the results of fish culture. Specimens of fish artificially propagated or introduced.



MINES AND MINING BUILDING.

# 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, 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 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. Asphaltic 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 its salts; borax.
- Class 319. Pigments, iron oxides, ochres, vermilion, 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 berevages, 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 330. Open-hearth steel—Plant 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.
- Class 340. Copper ores and their treatment by fire. Copper smelting. Pneumatic process. Converter system.
- Class 341. Copper extraction in the "wet" way.
- Class 342. Copper in ingots, bars, and rolled, with specimens illustrating its various stages of production.

  Copper and zinc. Brass industry, and products regarded as materials of manufacture.
- Class 343. Copper and aluminum, aluminum bronze.

# GROUP 52.

METALLURGY OF TIN, TIN-PLATE ETC.

- Class 344. Tin ores and their treatment.
- Class 345. Block tin and its extraction from tin ore.
- Class 346. Tin-plate and methods of cleaning and coating iron and steel plates.

# GROUP 53.

METALLURGY OF ZINC, NICKEL AND COBALT.

- Class 347. Production of spelter.
- Class 348. Sheet and bar zinc.
- Clas 349. Production of zinc oxide.
- Class 350. Nickel in ingots, bars, rods, sheets and wire.
- Class 351. Nickel-covered steel and iron by rolling.
- Class 352. Nickel "plating."
- Class 353. Nickel salts.
- Class 354. Special nickel alloys, as German silver, etc.
- Class 355. Nickel steel. (See Class 332.)

# GROUP 54.

METALLURGY OF ANTIMONY AND OTHER METALS NOT SPECIFICALLY
CLASSED.

- Class 356. Crude and star antimony.
- Class 357. Antimony compounds and principal alloys.
- Class 358. Arsenic, white arsenic, orpiment, and realgar.
- Class 359. Bismuth and alloys. Quicksilver and amalgams.

# GROUP 55.

EXTRACTION OF GOLD AND SILVER BY MILLING.

- Class 360. Gold mills and accessories.
- Class 361. Silver mills and accessories.
- Class 362. Apparatus and accessories of amalgamation; handling quicksilver.
- Class 363. Retorting, melting, stamping, shipping bullion.

# GROUP 56.

EXTRACTION OF GOLD AND SILVER BY LIXIVIATION.

- Class 364. Roasting and chloridizing furnaces.
- Class 365. Chlorination process and adjuncts.
- Class 366. Other processes.

# GROUP 57.

EXTRACTION OF GOLD, SILVER, AND LEAD BY FIRE.

- Class 367. Furnace plant and appliances.
- Class 368. Lead bullion molds and bars.
- Class 369. Refining operations.

# GROUP 58.

QUARRYING AND WORKING STONE.

- Class 370. Quarrying, channeling, and cutting engines.
- Class 371. Derricks and fittings.
- Class 372. Slate-cutting, sawing, and planing machines.

Class 373. Machines and apparatus for cutting, turning, and polishing marble, granite, and other stone. (See Group 78.)

# GROUP 59.

PLACER, HYDRAULIC, AND "DRIFT" MINING.

- Class 374. Apparatus and machines for washing gravel; sluices, cradles, toms, rockers, rifles, etc.
- Class 375. Construction of ditches, flumes, pen-stocks, etc.
- Class 376. Pipes for conveying water.
- Class 377. "Giants," nozzles, and appurtenances.

#### GROUP 6o.

- TOOLS AND APPLIANCES OF UNDERGROUND MINING, TIMBERING  $\qquad \qquad \text{AND SUPPORTING.}$
- Class 378. Timber cutting and framing machines.
- Class 379. Methods of timbering shown by examples.
- Class 380. Underground chutes, gates, and appliances for delivering ores. Methods and appliances for ventilating, lighting and signaling.

#### GROUP 61.

- BORING AND DRILLING TOOLS AND MACHINERY, AND APPARATUS FOR BREAKING OUT ORE AND COAL.
- Class 381. Picks, gads, and hammers.
- Class 382. Hand-drills, hammers, and blasting implements.
- Class 383. Drilling by steam or compressed air,—"power drills."
- Class 384. Diamond drills for prospecting or for sinking and driving.
- Class 385. Well and shaft boring (various systems).
- Class 386. Boring for water, oil, or gas—tools and methods.
- Class 387. Machines, apparatus and implements for cutting coal.

# GROUP 62.

PUMPS, ENGINES AND APPARATUS USED IN MINING FOR PUMPING,
DRAINING AND HOISTING.

# GROUP 63.

MOVING, STORING AND DELIVERING ORES, COALS, ETC.

- Class 388. Tramways, turn tables, automatic hoisting and conveying on the surface, contrivances for loading and unloading ores and coal.
- Class 389. Cars of all kinds.
- Class 390. Automatic dumping.
- Class 391. Ore bins and appliances.

# GROUP 64.

APPARATUS FOR CRUSHING AND PULVERIZING.

- Class 392. Rock breakers.
- Class 393. Rolls.
- Class 394. Large stamps.
- Class 395. Stamps and mortars.
- Class 396. Revolving grinding mills.
- Class 397. Coal breakers.

# GROUP 65.

#### SIZING APPLIANCES.

- Class 398. Grizzlys and bar screens and sieves.
- Class 399. Perforated plates.
- Class 400. Wire-mesh sieves and trammels.
- Class 401. Sizing by currents of water or air. Overflows.
- Class 402. Sizing by belts.

# GROUP 66.

# ASSAYING APPARATUS AND FIXTURES.

- Class 403. Plans of assay offices.
- Class 404. Furnaces, muffles and appliances.
- Class 405. Scorification and cupelling.

- Class 406. Volumetric methods and apparatus.
- Class 407. Fluxes and their receptacles.
- Class 408. Assay balances, etc. (See Group 112.)
- Class 409. Assay tables, assay schemes and methods

# GROUP 67.

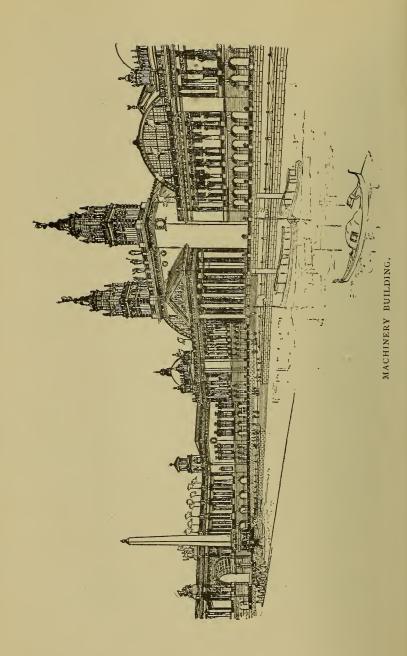
HISTORY AND LITERATURE OF MINING AND METALLURGY.

- Class 410. Maps, relief-models and pictures to illustrate the geology and distribution of minerals and mines and the methods of working mines.
- Class 411. History and statistics of mines and mining districts.
  - Charts, diagrams and tabular representations.

    Statistics of mineral production.
- 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, stoping 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.

#### GROUP 68.

ORIGINALS OR REPRODUCTIONS OF EARLY AND NOTABLE IMPLE-MENTS AND APPARATUS USED IN MINING AND METALLURGY.



# DEPARTMENT F.

#### MACHINERY.

#### 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 Dep.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, STAMP-ING, EMBOSSING, AND FOR MAKING BOOKS AND PAPER WORKING.

Class 450. Steam-power presses.

Class 451. Hand-printing 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. Book-binding 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. Zincography.
- Class 470. Color printing—Historical illustrations from the 16th Century to the present time. (Relief engraving. The old chiaro-oscuros. Modern wood-engravings. 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, artotype, etc.).
- Class 475. Photo-mechanical processes—Producing intaglio plates for printing in the copperplate 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 (chemitype, the graphotype, kaolitype), the wax process and allied processes (glyphography, kerography, 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 478. Aids to drawing for process work (used by lithographers and draughtsmen). Grained and embossed papers. Pasting tints. The air brush. Day's shading mediums, etc. Methods of reducing and enlarging. Photo-mechanical processes.
- 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 gauges, 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.

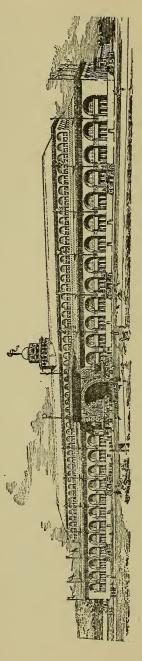
# (See also Department E.)

- 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.



TRANSPORTATION BUILDING.

# DEPARTMENT G.

TRANSPORTATION-RAILWAYS, VESSELS, VEHICLES.

#### GROUP 80.

RAILWAYS, RAILWAY PLANT AND EQUIPMENT.

Class 499. Railway Construction and Maintenance.—Maps, profiles, etc. Grading, track-laying and ballasting machinery. Samples of Standard Permanent Way. Systems of drainage. Ballast, culverts, ties, methods of preserving ties. Rails, rail fastenings, frogs, crossings, switches, etc. Cattle guards. Railway bridges, trestles, viaducts, with models and drawings. Tunneling, with machinery, models, maps. Methods of constructing, lighting and ventilating tunnels. Turn-tables and transfer-tables. Water supply and machinery and fixtures used by railroads in connection therewith. Track tools. Systems of maintenance. Snow sheds and other protection against snow. General plans, elevations and models of stations and other railroad structures.

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 cars and car works.

Class 501. Railway Operation. — Purchasing department.

Methods of purchasing, storing and distributing material and disposition of condemned material. Railway stationery.

Mechanical Department.—Organization. Records, plans and management of shops. Devices for coaling locomotives, etc. Testing laboratories. Machines, apparatus and methods of testing.

General train management.—Dispatching, signaling, etc. Speed indicators and recorders. Interlocking switches and signals, Block systems, etc. Crossing protection by gates, signals, etc. Wrecking tools and appliances. Plans of yards and methods of storing, cleaning and keeping cars. Car interchange and inspection. Systems of accounting, records, tracers.

Railway employes.—Methods of testing for colorblindness, etc. Uniforms, organizations, etc. Railway sanitation and surgery and appliances used therein.

Class 502. 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 and appliances for handling and housing of freight. Freight-handling machinery, track scales, apparatus for transferring grain from car to car. Traffic Associations, their objects, methods, etc.

Class 503. History and statistics, exemplified by exhibits of old locomotives, cars, track material and other relics. Railway law and legislation. Railway technical engineering and mechanical associations. Railway literature.

# GROUP 81.

## STREET CAR AND OTHER SHORT LINE SYSTEMS.

- Class 504. Cable roads and cars. Construction, equipment, methods of operation. Grips and other appliances.
- Class 505. Electric railway cars. Systems of track construction, equipment and supplies for electric roads, methods of operation, appliances and furnishings.
- 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.
- Class 507. Elevated and underground railways. Plans, models, and maps, showing systems of construction. Systems of operation and maintenance.

# GROUP 82.

# MISCELLANEOUS AND SPECIAL RAILWAYS.

Class 508. 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.

# 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 cariages, etc.
- Class 522. Wagon and carriage woodwork, hardware and fittings.
- Class 523. Harness, saddlery, robes, whips and accessories of the stable.

# GROUP 84.

ÆRIAL, 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 vessels, 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, descriptions, 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 receptacles 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.

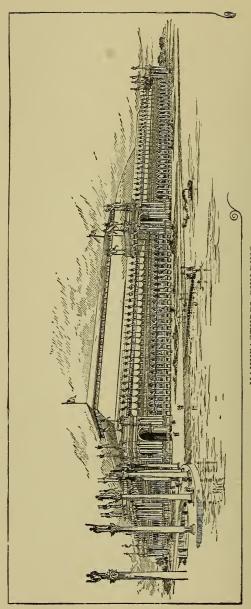
- Class 531. Marine mechanical appliances. (For nautical instruments, see Group 151.) (For marine engines, boilers, pumps, condensers and appurtenances, see Group 69.) Devices for propulsion, devices for obtaining forced draft, steam capstans, windlasses, deck winches, appliances to facilitate loading 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 repairing 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; anchors, 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 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.
- 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 semicivilized 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.



MANUFACTURES BUILDING.

# DEPARTMENT H.

#### MANUFACTURES.

# GROUP 87.

CHEMICAL AND PHARMACEUTICAL PRODUCTS.—DRUGGISTS' SUPPLIES.

- Class 543. Organic and mineral acids.
- Class 544. The alkalies and alkaline 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, manilla 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 bedchamber.
- Class 568. Upholstery for windows, doors; curtains, portieres, etc.
- Class 569. Mirrors and their mountings.
- Class 570. Treatment of porches, doorways, halls, and stair-cases, 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.
- 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-spathic glazes and enamels.
- Class 577. Porcelain with white or colored body, painted, incised or pâté-sur-pâté decoration.

- Class 578. Tiles.—Plain, encaustic and decorated tiles, bosses, tessaræ, 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, repoussé 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, irridescent, opalescent, colored, enameled, painted beaded, gilded, etc.
Millefiori and aventurine glass.

Class 594. Crackled 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.
Pâté-sur-pâté.

# GROUP 97.

GOLD AND SILVER WARE, 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, candelabra, épergnes, etc.

Class 606. Knives, forks and spoons.

Class 607. Fancy bonbon and other spoons; miscellaneous fancy articles in silver.—Snuff-boxes, matchboxes, cane-heads, handles, chatelaines, etc.

Class 608. Ware of mixed metals.—Mokumé ware, inlaid and incrusted ware, enameled and niello work.

Class 609. Plated ware on hard or nickel silver foundation.

Class 610. Nickel ware, nickel-silver ware, aluminum ware and aluminum-silver ware.

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, spunsilk 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, 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 633. Jute cloth and fabrics, plain and decorated.
- Class 634. Ramie and other fabrics.

- Ciass 635. Mats and coarse fabrics of grass, rattan, cocoanut and bark; mattings, Chinese, Japanese, palm-leaf, grass and rushes; floor cloths of rattan and cocoanut 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 wirecloths, 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, ginghams, cotton flannels, fine and fancy woven fabrics, duck, ticks, denims, stripes, bags, and bagging. Upholstery goods.—Tapestries, curtains and chenilles.
- 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, doeskins, 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 woven 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 skirting, table and piano covers,
  felts for ladies' hats, saddle felts, druggets, endless belts for printing machines, rubber shoelinings and other foot wear, hair feltings.
- Class 649. Carpets and rugs, 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 hats 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 seal, harp seal, 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 penguin.

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, crotchet-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.
- Class 671. Tapestries, machine-work.

## GROUP 107.

HAIR WORK, COIFFURES, AND ACCESSORIES OF THE TOILET.

- Class 672. Hair-work, as souvenirs and ornaments.
- Class 673. Coiffures, wigs, switches, etc.
- Class 674. Barbers' and hair-dressers' tools and appliances.
- Class 675. Combs, brushes. (See also class 549.)

#### 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, hand-bags, etc.; toilet articles.
- Class 679. Trunks of leather, paper, canvass 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. Bon-bons, fancy boxes and packages for confectionery.
- Class 695. Miscellaneous fancy articles not especially classed.

#### GROUP III.

#### 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 enameled 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 Class 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 heating, 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 65.)

- 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. Repoussé, 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. Builders' hardware—Locks, latches, spikes, nails, screws, tacks, bolts, hinges, pulleys; furniture fittings; ships' 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.

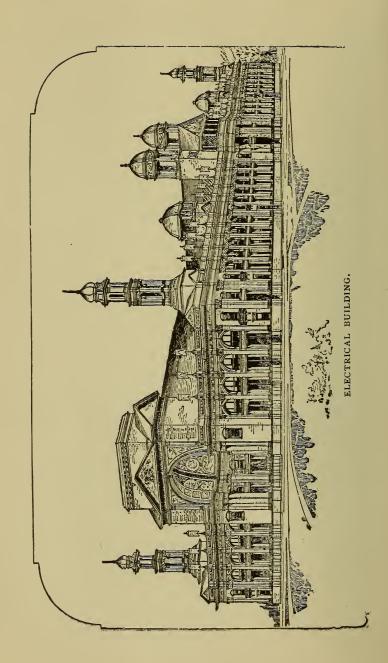
Class 755. Porcelain laundry tubs, basins, cocks, drains, and other appliances.

Class 756. Plumbers' and gas-fitters' hardware and miscellaneous appliances.

## GROUP 121.

MISCELLANEOUS ARTICLES OF MANUFACTURE NOT HERETOFORE CLASSED.





# DEPARTMENT J.

## ELECTRICITY AND ELECTRICAL APPLIANCES.

#### GROUP 122.

APPARATUS ILLUSTRATING THE PHENOMENA AND LAWS OF ELECTRICITY AND MAGNETISM.

Class 757. Statical electricity.

Class 758. Thermo electricity; thermo-electric batteries.

Class 759. Magnets, temporary and permanent.

Class 760. Induction coils, converters, etc.

## GROUP 123.

#### APPARATUS FOR ELECTRICAL MEASUREMENTS.

Class 761. Standard resistance coils.

Class 762. Standard condensers.

Class 763. Standard batteries.

Class 764. Instruments of precision; voltmeters, ammeters, wattmeters, etc.

# GROUP 124.

ELECTRIC BATTERIES, PRIMARY AND SECONDARY.

# GROUP 125.

MACHINES AND APPLIANCES FOR PRODUCING ELECTRICAL CUR-RENTS BY MECHANICAL POWER—DYNAMICAL ELECTRICITY.

Class 765. Dynamos of direct current, constant electro motive force; varying quantity.

Class 766. Dynamos of direct current, constant quantity and varying E. M. F.

- Class 767. Dynamos of alternating current, constant E. M. F., and varying quantity.
- Class 768. Dynamos of alternating current, constant quantity and varying E. M. F.

#### GROUP 126.

- TRANSMISSION AND REGULATION OF THE ELECTRICAL CURRENT.
- Class 769. Cables, wires, and insulation; rheostats, switches, indicators, registering meters; ammeters, voltmeters.
- Class 770. Safety and protective appliances: lightning rods, lightning arresters, insulators, fusible cut-outs, safety switches, etc.
- Class 771. Conduits, interior and underground.

# GROUP 127.

#### ELECTRIC MOTORS.

- Class 772. Direct constant current.
- Class 773. Direct constant E. M. F.
- Class 774. Alternating current.

#### GROUP 128.

## APPLICATION OF ELECTRIC MOTORS.

- Class 775. Street, underground, mining and other railways.
- Class 776. Elevators, pumps, printing presses, and general machinery.
- Class 777. Toys, novelties, and domestic appliances.

## GROUP 129.

#### LIGHTING BY ELECTRICITY.

- Class 778. The arc systems, their lamps, fixtures, and appliances.
- Class 779. The incandescent systems, their lamps, fixtures and appliances.

## GROUP 130.

#### HEATING BY ELECTRICITY.

- Class 780. For warming and heating apartments.
- Class 781. For heating flat irons, soldering irons, and other objects used in industrial operations.
- Class 782. Maintenance of constant high temperature in ovens.
- Class 783. Electric heating furnaces.

## 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 TELEGRAPH 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. Subscriber's 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 HEREIN-BEFORE 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.

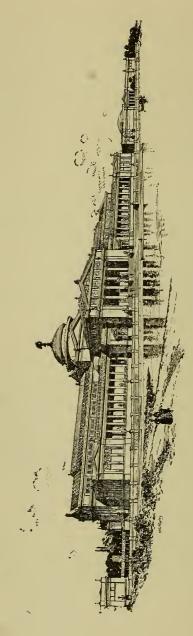
# GROUP 137.

#### 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 818. United States Patent Office and other exhibits of electrical models and drawings.
- Class 819. Foreign exhibits of electrical models and drawings.



ART BUILDING.

## 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 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 145.

ANTIQUE AND MODERN CARVINGS; ENGRAVINGS IN MEDALLIONS OR IN GEMS; CAMEOS, INTAGLIOS.

## 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 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, gymnasia; 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, 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 suites of apartments, city and country residences, club-houses, school-houses; designs and models of improved buildings for elementary schools, infant schools and crèches, courtrooms, theatres, churches, etc.

Class 828. Hotels, lodging-houses.

Class 829. Public baths, lavatories; public and domestic hygiene. Sanitation.—Sanitary appliances and methods for dwelling-houses, buildings and cities. Direct renewal of air. Heating, ventilating, lighting, in their relation to health. Conduits of water and sewage. Drains and sewers. Sinks, night-soil apparatus, sanitary plumbing, walls, bricks, roofs, flooring, etc. Sanitary house decoration.—Non-poisonous paints and wall-papers, floor coverings washables, decorations, etc.

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 sanitaria, 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; alms-houses.

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, officinal (in any authoritative pharmacopæia) articles of the materia medica, preparations unofficinal. (See Group 87.)
- Class 835. Dietetic preparations intended especially for the sick. (For beef extracts, see Class 38.)
- Class 836. Instruments for physical diagnosis, clinical thermometers, stethoscopes, ophthalmoscopes, etc.
- Class 837. Surgical instruments, appliances and apparatus, with dressings, anæsthetics, antiseptics; 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 842. Primary schools, city and country.—School-houses and furniture. Apparatus and fittings.

  Models and appliances for teaching, text-books, diagrams, examples. Specimens of work in elementary schools.
- 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 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.
- Class 853. Government aid to education.—National Bureau of Education.—Reports and statistics.

## 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

(For testing machines, see Class 490.)

- Class 866. Astronomical instruments and accessories.—Transits, transit circles, mural circles, zenith sectors, altazimeters, equatorials, collimators, cometseekers.
- 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, engineers' 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, astronomical clocks, church and metropolitan clocks, clepsydras, hour-glasses, sun-dials, chronographs, electrical clocks, metronomes. (For commercial clocks and watches, see also Group 99.)
- 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 coasts, 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 fiber, 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.

(A chart showing date of completion, span, rise, weight, and cost of the great bridges of the world, would be of interest.)

- Class 881. Subaqueous constructions.—Foundations, piers, harbors, break-waters, building of dams, waterworks 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 earthworks, 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 or 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 892. Protection of property in inventions. Patent offices and their functions, statistics of inventions and patents.
- Class 833. 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 congresses.

Class 910. Publication societies.

Class 911. Libraries—Public and private; statistics of opera-

## 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 926. History and theory of music.—Music of primitive people. Crude and curious instruments.

Combinations of instruments, bands and orchestras. Music books and scores. Musical notation.

History and literature of music. Portraits of great musicians.

Class 927. Self-vibrating instruments.—Drums and tambourines; cymbals, triangles, gongs, castanets, "bones."

Bells, chimes and peals.

Bell-ringers' instruments. Musical glasses.

Glockenspiels, zylophones, marimbas.

Music boxes.

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.

  Oliphant. Alpenhorn. The trombone (with slide and with finger-holes). The serpent, bassoon and bagpipe.
- Class 934. Wind instruments with bell mouthpiece, 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.

Class 937. Music in relation to human life.—Musical composers. Great performers. Great singers. Portraits. Biographies.

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 M.

ETHNOLOGY, ARCHÆOLOGY, 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—dolmens, 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—REPRE- SENTATIONS OF DEITIES—APPLIANCES OF WORSHIP.** 

### GROUP 165.

HISTORIC ARCHÆOLOGY—OBJECTS ILLUSTRATING THE PROGRESS OF NATIONS.

### GROUP 166.

MODELS AND REPRESENTATIONS OF ANCIENT VESSELS, PARTICU-LARLY 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 AMEL-IORATION 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 951. 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 school-room. Inventions, etc.
- Class 965. Music. The "Columbian Indian Band," consisting of sixty or more instruments.
- 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.

# INDEX.

## A.

	GROUP.	PAGE.
Academies of Science, Letters and Arts	155	97
Acoustic Apparatus	151	93
Acoustic Apparatus, Electric	134	80
Adding Machines	151	92
Agate	44	34
Agricultural Implements	16	8
Agriculture, Literature of	15	8
Alcohol	11	7
Ale	12	7
Alfalfa	1	3
Alkalies	87	59
Alimentation	147	86
Alloys	-53-54	36-37-38
Alum	48	35
Aluminum	50	36
Aluminum Bronze	51	3
Amalgamating Machinery	55	38
Amber	43	33
Ambulances	83	54
Ammeters	23-126	77
Ammunition	113	72
Anglers' Apparel	39	29
Animal Products	17	9
Perfumes	17	9
Animals, Wild	36	24
Annunciators, Electric	133	79
Antimony	54	38
Apparatus, Library	150	91
Electric and Magnetic	151	93
for Physical Research	151	92
Apples	21	16
Aquatic Life, All Forms of	37-38	27-28
Arboriculture	25	• 19
Architecture, Prehistoric	159	101
Architecture, Constructive	152	93
Archæology (Department M)		101
Arms for Hunting and War1	13-86	72-57
Arrowroot	2	4
Arsenic	54	38
Artichokes	4	4
105		

	GROUP.	Page.
Articles, Fancy		69-70
Toilet		70
Druggists'		70
Aromatic Substances		5
Asbestos		34
Asphaltic Mixtures		33-35
Asphaltite		33
Assaying Apparatus		40
Asses		21
Astronomical Instruments		92
Asylums	. 147	88
Axle Grease		10
Time Orease	. 10	10
В.		
Baby Carriages	. 83	54
Baking Powder	. 2	3
Baggage barrows and trucks	. 80	52
Baggage Checks	. 80	52
Balloons	. 84	55
Barks	. 19	10
Barley	. 1	3
Bamboo	. 19	11
Banks and Banking	. 154	97
Barometers	. 151	93
Basic Process	. 49	36
Baskets	. 19	11
Baths, Public	. 147	87
Bath tubs	. 120	74
Batteries, Electric	122-124	77
Bauxite	. 46	34
Bees, Honey	. 3	4
Beets	. 4	4
Beverages	. 11	7
Beer	. 12	7
Beton	47	35
Belting	111	70
Beams	118	74
Bindings, Braids, etc	100	65
Biscuits	. 2	3
Bitumen	43	33
Birds	34-37	23-28
Bismuth	. 54	38
Bicycles and Tricycles		54
Blankets	103	67
Block Signal Systems	80	52
Blocks (vessels)	85	56

	GROUP.	PAGE.
Boards of Trade	154	96
Boat-lowering Apparatus	85	56
Boats	85	55
Books, Blank	89	60
School		90-91
Music	158	99
Boots.	104	68
Borax	48	35
	37	27
Botany, Aquatic	13	7
Bottling Apparatus		
Brake Valves	80	51
Brandy	20	15
Brass	51	37
Brazing, Electric	132	79
Breaks	83	54
Bricks	91	61
Bridges	152	94
Brushes	107	69
Bronzes	93	62
Bread	2	3
Buckwheat	1	3
Buckets	19	11
Buoys	85	56
Burglar Alarms, Electric	132	72
Butter	7	5
Butterine	18	9
C.		
Cable Roads	81	53
Cables, Electric15	26-134	78-80
Cakes and Biscuits	2	3
Candles	18	10
Canes	108	69
Caps	104	67
Carriages	83	54
Carriage Hardware	83	54
Carriages, Steam and Electric	83	54.
	4	4
Carrots	80	-
Cars, Railway		51
Cars, Street	81	53
Carpets	103	67
Carvings, Antique and Modern	145	84
Car Works	81	52
Carts, Hose	70	44
Carvings	96	<b>6</b> 3

	GROUP.	PAGE.
Cassava	. 2	4
Cats	. 33	22
Cattle	. 28	21
Cautery, Electric	. 135	80
Celluloid	. 109	70
Cement	. 47	35
Ceramics	. 91	61
Cereals	. 1	3
Chains and Cables	. 85	56
Chairs	. 90	61
Charcoal Industry	. 19	12
Cheese	. 7	5
Chemicals.	87	59
Chemistry, Electro	. 131	79
China, No	. 91	61
Chocolate	. 8	5
Chronographs, Electric	. 133	79
Chronometers		93
Cider	.11, 21	7-16
Cigar Cases	. 108	69
Cigarettes, Cigars	. 8	5
Clays	. 46	34
Clocks	. 99	64
Clocks, Astronomical and Church	151	92
Clothing	104	67
Clothing, Fur	105	68
Clubs, Social, Trades and Political	156	98
Clover	. 1	3
Coal and Coke	43	33
Cobalt	53	37
Cocoa	8	5
Coffee	6, 8	5
Coffins	92	62
Colors	48-88	35-60
Color Tests	80-147	52-89
Combs		69
Commerce	154	99
Concrete	47	35
Condensers, Electric	123	77
Conduits, Electrical Underground	126	78
Confectionery	3	4
Converters, Electric	122	77
Costumes	104	67
Counting Houses, etc	154	96
Cooking Apparatus	115	72
Copper	51	37
••		

### INDEX.

	GROUP.	PAGE.
Corals	37	27
Cordage	. 85	56
Cordials	. 11	7
Corks,	. 19	11
Corn, Broom	5	4
Corn, Indian	1	3
Corundum	45	34
Cotton	9	6
Cotton Fabrics.	102	66
Crackers	2	4
Cream	7	5
Crèches	147	86
Crestings	118	73
Crystallography	42	33
Cut-outs, fusible	126	78
, , , , , , , , , , , , , , , , , , ,	120	•0
D.	7	5
Dairy, Products, Fittings and Appliances		ა 3
Decorticated Grains	1	-
Dentistry, Electro	135	80
Derricks		43, 55
Diamonds	98	64
for Polishing	45	34
Dietetic Preparations	148	89
Distilling	13	7
Diving Apparatus	69,85	43, 56
Docks	85	55
Dogs	32	22
Down	34	23
Drainage Systems	80	51
Drama	158	100
Drawings, Fine Art	144	84
Dredges,	85	55
Druggists' Supplies	87	59
Dwellings	147	86
Dyes	48-88	35-60
Dye Woods, Mosses, etc	19	10
Dynamometers	77	48
Dynamos	125	77
E.		
Earthenware	91	61
Education	149	90
Eggs	34	23
Electric Batteries	124	77
Electric Carriages for Common Roads	83	54
	22-151	77-93
•		

	GROUP.	
Electricity, Heating by13	0–136	79–80
Welding by	132	79
Electricity, History of	137	81
" Science of	138	81
Electro-plating	131	79
Electrotyping	131	79
Elevators, Grain	154	96
	60	39
Elevators, Mining	128	78
" Electric		
Elevators, Passenger	84	55
Freight	69	43
Embroideries	106	68
Emery	_ 45	34
Enamels	93	62
Engines, Fire	70	44
Steam, Air and Gas	69	43
used in Mining	63	40
Traction	16	9
Engineering, Civil, Dynamic, Military8	0. 152	53, 93-94
"Mining	67	41
Engraving, Fine Art		83-84
	1	3
Ensilage	1	101
Ethnology (Department M.)	0	
Extracts of Beef	6	5
Extracts, Flavoring	87	59
Explosives, Electric	136	80
5		
F.		
Fans	106	69
Farms	14	7
Fats	18	9
Feathers	34	23
Felt Goods	103	67
Fermenting Apparatus	13	7
Ferrets	33	22
Fertilizers	17. 48	9-35
Fibre	9	6
Fibre, Fabrics of	101	65
Filters, Water	147	87
	133	79
Fire Alarms, Electric	115	72
Fire places		
Fish	. 37	27 5
" Canned	6	
Fishing	38	28
•		

1 '		
	GROUP.	PAGE.
Fishing Appliances	. 38, 39	28, 29
Flax		6
Floor Cloths	. 101	66
Floriculture	22	17
Flour		3
Flowers	. 22	· 17
Artificial		69
Food Inspection		88
Food Preparations		5
Forage Plants		3
Forestry and Forest Products	_	10
Forgings1		74, 79
Freight Handling Machinery		52
•		16
Fruits		36
		72
Hot Air		•
Furnaces, Electric		79
Furnishing, Artistic		61
Furniture		61
Furs	105	68
G.		
Games	147	86
Gas, Electrical ignition of		80
Gas, Natural		33
Illuminating		72
Fixtures.		72
Gems		33-64
Geological Specimens		33
Girders		74
Glass and Glassware		62-63
Gloves	104	68
Glucoses		4
Gluten		3
		10
Glycerine.		22
Goats		
Gold, Extraction of		38
Government		96
Grains		3
Granite		33
Granite Ware		73
Grapes		15
Graphite	. 46	34
Grasses	. 22–1	17-3
Grease, Axle	. 18	10
Grindstones	45	34
Grits		3

	GROUP.	PAGE.
Gums	19	11
Guns and Armor	86	57
Gutta Percha, Fabrics	109	70
Gymnasiums	147	86
Gypsum	47	35
H.		
Hair	9-17	6-9
Hair work	107	69
	85	56
Hardware	119	74
Hardware	83	54
Harness		6 <b>6</b> –67
Hats1		
Hawsers	85	56
Hay		. 8
Hemp		• 6
Herbariums	22	17
Hides	111	70
Hives, Bee, and Appliances	3	4
Honey	3	4
Honestones	45	34
Hooks and Eyes	106	69
Hops.	8	5
Horses	27	21
Horse Shoes	118	74
Horticultural Appliances	26	19
Hosiery	104	68
Hospitals	147	88
Hotels	147	87
Hot Houses, Heating Apparatus for	26	19
Hygiene	147	86
Ţ.		
<del></del> -	00	46
Ice Machines	69	48 89
Immigration		
Indians, North American		104
Schools		90
Homes		88
Indicators, Electric		56-78
" Speed		55
Ink		60
Insects		28
Insecticides		
Institutions for increase and diffusion of Knowledge		9"
Social, industrial		98
" Religious		98
Instruments of Precision, Electric		7'
Instruments, Medical and Surgical1	09-148	70-89

•	
Groun	
Instruments, Dental	80–89
Instruments of Precision, Geodetic, Leveling, Meteoro-	
logical, Optical112–151	
Insulation, Electric	
Insurance Companies	
Iron	
Wrought	
Metallurgy	36
Irrigation14, 152	
Ivory, Vegetable	10–11
J.	
Jacks and Jennets	21
Jasper 44	34
Jellies, Jams, etc	16
Jewelry 98	64
Gilt and Gold-covered 98	64
Journals, Technical	91
Illustrated	91
Jute 9	6
Jute Fabrics	65
К.	
Kaolin 46	34
Knowledge Diffusion of	
Knowledge, Diffusion of	
L.	97
L. Laces	97
L. Laces	97 68 78
L. Laces	97 6 68 78 72
L.  Laces	97 68 78 72 9
L         Laces	97 68 78 72 9 45
L         Laces       106         Lamps—Electric       128         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       78         Law       158	97 68 78 72 9 45 96
L         Laces       106         Lamps—Electric       126         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       73         Law       153         Leather and Leather Goods       111	97 68 78 72 9 45 96 70
L         Laces       106         Lamps—Electric       128         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       78         Law       158         Leather and Leather Goods       111         Libraries       150-155	97 68 78 72 9 45 96 70 91–97
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard.       18         Lathes for Woodwork.       78         Law.       156         Leather and Leather Goods.       111         Libraries.       150-155         Life-Saving Service.       85	97 68 78 72 9 45 96 70 91–97 56
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard.       18         Lathes for Woodwork.       78         Law.       156         Leather and Leather Goods.       111         Libraries.       150-155         Life-Saving Service       85         Lighting Apparatus.       114	97 68 78 72 9 45 96 70 91–97 56 72
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard.       18         Lather for Woodwork.       78         Law.       152         Leather and Leather Goods.       111         Libraries.       150-165         Life-Saving Service.       88         Lighting Apparatus.       114         Lighting by Electricity.       114-128	97 68 78 72 9 45 96 70 91-97 56 72 72-78
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard.       18         Lather for Woodwork.       78         Law.       156         Leather and Leather Goods.       111         Libraries.       150-155         Life-Saving Service.       88         Lighting Apparatus.       114         Lighting by Electricity.       114-128         Lightning Arresters.       126	97 68 78 72 9 45 96 70 91-97 56 72 72-78
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard.       18         Lather for Woodwork.       78         Law.       152         Leather and Leather Goods.       111         Libraries.       150-165         Life-Saving Service.       88         Lighting Apparatus.       114         Lighting by Electricity.       114-128         Lightning Arresters.       126         Rods.       126	97 68 78 72 9 45 96 70 91-97 56 72 72-78 78
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard       18         Lathes for Woodwork.       78         Law.       152         Leather and Leather Goods.       111         Libraries.       150-185         Life-Saving Service.       88         Lighting Apparatus.       114         Lighting by Electricity.       114-128         Lightning Arresters.       126         Rods.       126         Lime.       47	97 68 78 72 9 45 96 70 91-97 56 72 72-78 78 78
L         Laces.       106         Lamps—Electric       128         Lamps, Lanterns.       114         Lard       18         Lathes for Woodwork.       78         Law.       152         Leather and Leather Goods.       111         Libraries.       150-185         Life-Saving Service.       88         Lighting Apparatus.       114         Lighting by Electricity.       114-128         Lightning Arresters.       126         Rods.       126         Lime.       47         Limestone.       47	97 68 78 72 9 45 96 70 91-97 56 72 72-78 78 78 35
L         Laces       106         Lamps—Electric       128         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       78         Law       158         Leather and Leather Goods       111         Libraries       150–185         Life-Saving Service       88         Lighting Apparatus       114         Lightning Arresters       126         Rods       126         Lime       47         Limestone       47         Linen       102	97  68 78 72 9 45 96 70 91-97 56 72 72-78 78 78 35 66
L         Laces       106         Lamps—Electric       126         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       78         Law       158         Leather and Leather Goods       111         Libraries       150–185         Life-Saving Service       88         Lighting Apparatus       114         Lighting by Electricity       114–128         Lightning Arresters       126         Rods       126         Lime       47         Limestone       47         Linen       103         Literature       150	97  68 78 72 9 45 96 70 91–97 56 72 72–78 78 78 35 66 91
L         Laces       106         Lamps—Electric       126         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       73         Law       155         Leather and Leather Goods       111         Libraries       150-155         Life-Saving Service       86         Lighting Apparatus       114         Lighting by Electricity       114-123         Lightning Arresters       126         Rods       126         Lime       47         Limestone       47         Linen       105         Literature       150         Lithography       76	97 68 78 72 9 45 96 70 91-97 56 72 72-78 78 78 35 66 91 46
L         Laces       106         Lamps—Electric       126         Lamps, Lanterns       114         Lard       18         Lathes for Woodwork       78         Law       158         Leather and Leather Goods       111         Libraries       150–185         Life-Saving Service       88         Lighting Apparatus       114         Lighting by Electricity       114–128         Lightning Arresters       126         Rods       126         Lime       47         Limestone       47         Linen       103         Literature       150	97 68 78 72 9 45 96 70 91-97 56 72 72-78 78 78 78 78 78 78 76 79 76 76 77 78 78

Locomotives	GROUP.	Page 51
Logs	19	10
Lubricants, Graphite	46	34
Lumbering	19	12
М.	10	1.
Maccaroni	2	4
Machinery, Amalgamating	55	38
for cutting and polishing Marble, Granite, etc	58	39
Machinery, Electric Milling	128	78
" Mining	128	78
Machinery for working Metals	71	44
for fermenting Liquors	13	7
for bottling Beer	13	7
for manufacturing Textile Fabrics	72	44
for manufacturing Clothing	72	44
for manufacturing Rubber Goods	72	44
for manufacturing Rope and Twine	72	44
for manufacturing Fibrous Materials	72 72	44
for manufacturing Paper and Felting for manufacturing Tapestry and Carpets	72	44 45
for manufacturing Boots and Shoes	72	45
for working Wood	73	45
for Printing, Type setting	74	45
for Embossing and Paper Working	74	45
for making Clocks	77	48
for making Jewelry	77	48
for making Buttons, Pins and Needles	77	48
used in various Arts	77	48
for Stone Sawing and Planing	78	49
for making Brick and Tile	78	49
for making Artificial Stone	78	` 49
for rolling Mills	78	49
for making Horse-shoes, Nails, etc	78	49
for curing Spices	8	6
for manufacturing Tobacco	8	6
for preparation of Food,	79	49
for Planting, etc., Cotton	9	6
for Farming	16	8
for Mining	59	39
for breaking Ore and Coals	61	39
for making Pharmaceutical Products	77	48 48
Miscellaneous	122	77
Magnets	7.44	- 11

•	GROUP.	PAGE.
Mammalia, Aquatic		28
Mangel Wurzels		4
Manioc		4
Mantels		62
Maps		92
Marble		33
Material of War		72
Mats, Fur		68
Mats of Vegetable or Mineral Fibre		65
Meal from Grain		3
	12, 151	71-92
Meats, smoked, dried and salted		5
Canned	6	5
Extracts		5
Medicine, Instruments and Apparatus		89
Medicines		89
Medicinal Roots, Herbs, etc.		11
Meerschaum		34
Merchant Marine		57
Metal Plates	. 03	73
Meteorological Instruments		93
		62
Metallyray		02
Metallurgy  Electro		36-79
Iron.		36
		36
Steel		37
Copper and its Alloys		
Tin, Tin Plate, etc		37
Zinc, Nickel and Cobalt		37
Antimony, etc		38
Meters, Electric Registering		78
Meters, Gas and Water		71-92
Mica		34
Milk		5
"Canned, evaporated, etc		5
Millinery		68
Mills, Gold and Silver		38
Stamp		38
Mineral Fertilizing Substances		35
Minerals		33
Mining, placer		39-40
Mining, History of		41
Mirrors		61
Miscellaneous Articles of Manufacture		74
Missionary Societies		98
Models, Electrical	. 138	81

	GROUP.	PAGE.
Models of Mining Machinery	68	41
Models of ships, boats, etc	86	57
Money	154	96
Monuments	92	62
Mosaics.	91	62
Mosses.	19	10
Motors	69	43
Electric	127	78
Moving platforms and sidewalk	82	53
Mules	27	21
Museums	155	97
Music and Musical Instruments	158	99
	100	ชช
N .		22
Naptha launches	85	55
Naval Warfare, Organization, Schools, etc	86	57
Needles	106	68
Needlework	106	68
Newspapers	150	91
Nickel	53	37
Nickel-Plated Ware	97	64
Nitre, Nitrates	48	35
Nurseries, Plant and Tree	25-26	19
Household	147	86
Nuts	21	16
0		
Oats	1	3
	48	35
Ochre	40	
OchreOil Cloth	101	66
		66 30
Oil Cloth	101	-
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable.	101 40	30
Oil Cloth	101 40 18	30 9
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable. Lubricating. Oleomargarine.	101 40 18 -18	30 9 10
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable. Lubricating. Oleomargarine. Omnibuses.	101 40 18 18	30 9 10 9
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable. Lubricating. Oleomargarine. Omnibuses. Onyx.	101 40 18 18 18 18	30 9 10 9 54
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores.	101 40 18 18 18 18 83 44 42	30 9 10 9 54 33
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments.	101 40 18 18 18 18 83 44 42 98	30 9 10 9 54 33 33
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters.	101 40 18 18 18 18 83 44 42 98 37	30 9 10 9 54 33 33 64 28
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters. Oxides, Metallic.	101 40 18 18 18 18 83 44 42 98 37 87	30 9 10 9 54 33 33 64 28 59
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters. Oxides, Metallic. Oysters.	101 40 18 18 18 18 83 44 42 98 37	30 9 10 9 54 33 33 64 28
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters. Oxides, Metallic. Oysters.	101 40 18 18 18 83 44 42 98 37 87 6–37	30 9 10 9 54 33 33 64 28 59 5-27
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters. Oxides, Metallic. Oysters. P Pails.	101 40 18 18 18 83 44 42 98 37 87 6–37	30 9 10 9 54 33 33 64 28 59 5-27
Oil Cloth Oil, Fish. Oils, Animal and Vegetable. Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters. Oxides, Metallic. Oysters. P Pails. Paints.	101 40 18 18 18 18 83 44 42 98 37 87 6–37	30 9 10 9 54 33 33 64 28 59 5-27
Oil Cloth. Oil, Fish. Oils, Animal and Vegetable. Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Orraments. Otters. Oxides, Metallic. Oysters. Pails. Paints. Paintings, Oil.	101 40 18 18 18 18 83 44 42 98 37 87 6–37	30 9 10 9 54 33 33 64 28 59 5–27
Oil Cloth Oil, Fish. Oils, Animal and Vegetable. Lubricating. Oleomargarine. Omnibuses. Onyx. Ores. Ornaments. Otters. Oxides, Metallic. Oysters. P Pails. Paints.	101 40 18 18 18 18 83 44 42 98 37 87 6–37	30 9 10 9 54 33 33 64 28 59 5-27

_	GROUP.	PAGE.
Paper		60 71
Parchment		4
Pastes, Italian		64
Imitation of Precious Stones		
Pastry		3
Patent Offices		96
Peanuts		4
Pearls		30
Pens "Fleetric		60
Electric		80
Pepper		5
Perambulators		54
Perfumery		59
Petroleum		33
Phonograph		80
Photographs	I51	93
Photography and Apparatus1		80-93
Photometric Apparatus	151	93
Physical Development	147	86
Pickles, etc	23	18
Pigments	48	35
Pins	106	69
Pipes, Sewage	147	87
Pipes, Smoking	108	69
Plantain	2	4
Plants	22	17
Forage	1	3
Plasters	47	35
Plumbing Materials	120	74
Pneumatic Tubes	84	55
Pomology	21	16
Ponies	27	21
Porcelain	91	61
Porter	12	7
Postal System	153	96
Potatoes	4	4
Pottery	91	61
Poultry	. 34	23
Powder, Explosive	87	59
Printing, Color	75	46
Processes	76	47
Prosthesis-Apparatus of	148	89
Protection of Life	85	56
Pulp		11-60
Pumps		43-78
" for Mining	62	40-10
Pyrotechnics	87	59
1 yrotechnics	01	99

0		
	GROUP	
Quicksilver	54	38
Quills	34	23
R		
Rabbits	33	22
Railway—History and Statistics	80	53
Railways 8		51-78
Plant Equipment and Management	80	51, 52
Street	81	53
Miscellaneous	82 9	. 53
Ramie	101	65
FabricsRattan	19	11
Rectifying apparatus	13	7
Refrigerators69		43-73
Registers of Time.	99	65
Religious Organizations	157	98
Repousse work	118	74
Reptiles	37	27
Rheostats	126	78
Ribbons	100	65
Rice	1	3
Roads, Cable	81	53
Roads, Construction of	152	93
Rolling Chairs	83	54
Roses	22	17
Rubber	109	70
Rugs	103	67
Rum	11	7
S		
Saddlery	83	54
Safes119,	154	74-97
Safety appliances—Electric	-134	78-80
Sago	2	4
Salts	48	35
Sanitary Materials	120	74
Sanitation	147	• 87
Saw mills	73	45
Scales—Assay	66	41
Scales of All Kinds80, 112,	151	52-71-92
Sculpture	139	83
Seals	37	28
	9-24	11-18
Cotton	9	6
Semolino	2	4

	GROUP.	PAGE.
Sewage, care of	147	87
Sewing Machines	104	68
Sheep	29	22
Shells	37	27
Ships	85.	55
Ship Railways	82	53
Shirts	104	68
Shoes	104	68
Sieves	117	73
Signals—Mine	60	39
" Railway	80	52
" Electric1	33-134	79-80
Silk and Silk Fabrics	100	65
Silk Worms and in the Cocoon	9	6
Silex	46	34
Silos	1	3
Sizing Appliances	65	40
Skins	111	70
Slates	44	33
Sleighs	83	54
Snuff	8	6
Soaps	18-87	10-59
Societies	156	98
Soda Water Fountains	116	73
Sorghum	3	4
Spelter	53	37
Spices	8	5
Sponges	37	27
Stable Fittings	14	8
Starch	2	4
Stationery	89	60
Stearine	18	10
Steatite	46	34
Steel	49	36
Stone	44	33
Artificial	47	35
Quarrying	58	38
Stout	12	7
Stoves and Ranges11	15–130	72-79
Sub-marine Armor	85	56
Sugars	3	4
Sugar beets	4	4
Sulphur	48	35
Surgery—Electro	135	80
Surgery, Instruments and Appliances	148	89
Surveys of Coasts, etc	152	93

	GROUP.	Page.
Swine	31	22
Switches and Switch-boards—Electric		78-80
Syrups	3	4
	v	•
T		
Table Ware	94-97	63
Tallow	18	9
Tanbark Industry	19	12
Tapestries	106	69
Tapioca	2	4
Tar-Mineral	43	33
Taxidermy	34	23
Tea	8	5
Telegraph	133	79
Telephone	134	80
Tempering—Electric	132	79
Tents	108	69
Terra Cotta	91	61
Therapeutics—Electro	135	80
Theatre	158	99
Thermometers	151	93
Thermostats	133	79
Tickets, Ticket Cases, etc.—Railway	80	52
Tiles	91	62
Timber	19	10
Tin	52	37
Tobacco	8	6
Toboggan	83	54
Toilet, Accessories of	107	69
Tools, Farming	16	8
for working Metal	71	44
Miscellaneous Hand	77	48
Edge	119	74
for Mining	60	39
for Boring and Drilling	61	39
for Barbers	107	69
Sawing	19	13
Torpedoes	86	57
Toys11	10,128	70, 78
Traffic Associations	80	52
Transmitting Apparatus—Electric	134	80
Transportation Exhibits (Department G)	80-86	51-57
Transportation, Ores, Coal, etc	63	40
Traveling Equipments	108	69
	19, 25	11-19
Trimmings10	3-106	67-68

### INDEX.

	GROUP.	Page.
Trunks	108	69
Tubs	19	11
Tubs, Bath and Laundry	120	74
Tubers		4
Tubes, Pneumatic	84	55
Turnips		4
Turpentine Industry		12
Typewriters	89	60
**		
Ŭ		
Umbrellas and Parasols	108	69
Undertakers Goods,		62
Upholstery Goods	103	67
V		
Valises	108	69
Varnishes	88	60
Vaults1	19-154	74-97
Vegetable and Animal Fibre		6
Vegetables, Garden		18
Farm		4
Dried and Canned	-	18
Vehicles		53
Vehicles for sick and wounded	148	89
Vermicelli	2	4
Ventilation—Mine		39
Ships	85	56
Buildings.	147	87
Vessels	85	55
Naval	86	57
	20	15
Vineyards		15
Viticulture	20	
Voltmeters1	25-120	77-78
w		
Wagons (all kinds)	83	54
Ware, Hollow	116	73
Tin	116	73
Paper and Wooden	19	11
Stone, China, etc	91	61
Wares, Gold and Silver	97	63
Watches	99	64
of Precision	151	92
Watchmakers' Tools	99	64
Water Closets	120	74
Waters, Natural and Artificial	.10-48	6-35
Wattmeters	123	77

	GROUP.	Page.
Wax	18	10
Weapons	113	72
Weights	2-151	71-92
Welding, Electro	132	79
Whales	37	28
Wheat	1	3
Whips	83	54
Whiskies	11	7
Willow Ware	19	11
Wines	20	15
Wire Fencing21	l-117	16-73
Wire Goods	6-117	19-73
Wire, Iron and Steel	49	36
Cloth	50	36
Wood, Pulp	19	11
Silicified	44	34
Woods	19	11
Wool	9	6
Woolen and Worsted Fabrics	103	66
Works, Public	152	93
Woven Goods	102	66
Wrecking Apparatus	85	56
Y		
Yachts	85	55
Yacht Trophies	85	57
Yarns	102	66
Yeast	2	3
Z		
Zamia	2	4
Zinc	53	37







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