

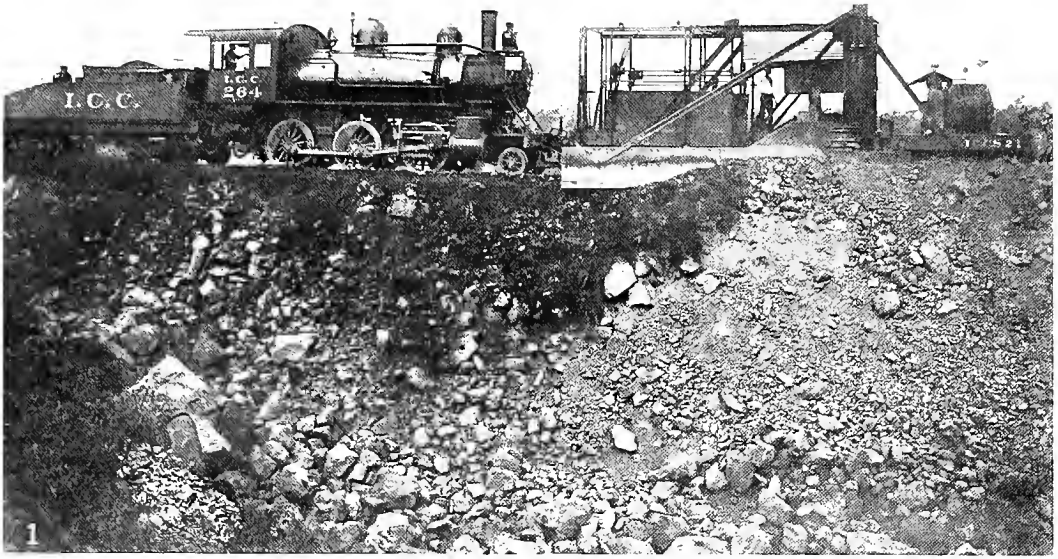
## CHAPTER LIII

### INDUSTRIAL ROLL OF HONOR, PANAMA CANAL

#### LIST OF AMERICAN PERSONS, FIRMS, AND CORPORATIONS WHO SUPPLIED EQUIPMENT FROM THE UNITED STATES FOR THE BUILDING OF THE PANAMA CANAL.

##### A

- Abbey Effervescent Salt Co., Medicines, Montreal.  
Abendroth & Root Mfg. Co., Piping Boilers, N. Y. C.  
Abercrombie & Fitch, Sporting Goods, N. Y. C.  
Abraham Friedman, Shoes, St. Louis, Mo.  
Acme Evans Co., Flour, Indianapolis, Ind.  
Acme Lumber Co., Doors, New Orleans, La.  
The Acme Road Machinery Co., Rock Crusher, Frankfort, N. Y.  
Acorn Lumber Co., Lumber, Pittsburgh, Pa.  
J. J. Adams & Co., Brushes, Brooklyn, N. Y.  
Adams & Grace Co., Stationery, New York City.  
The Adams & Westlake Co., Railway Supplies, Philadelphia, Pa.  
Byron S. Adams, Certificates, Washington, D. C.  
R. H. Adams, Linseed Oil, New York City.  
The Addressograph Co., Addressing Machines, N. Y.  
A. Adler & Co., Canned Goods, New Orleans, La.  
Karl Adlers, Creamery Supplies, New York City.  
Adriance, Platt & Co., Mowers, Poughkeepsie, N. Y.  
The Aetna Powder Co., Electric Fuses, Aetna, Ind.  
The Ahrens & Otto Mfg. Co., Kitchen Sinks, Louisville, Ky.  
Ajax Forge Co., Switches, Chicago, Ill.  
The Ajax Metal Co., Philadelphia, Pa.  
Akron Metallic Gasket Co., Gaskets, Akron, Ohio.  
Alberger Pump & Condenser Co., Parts for Pumps, New York City.  
Albert Mackie Grocery Co., Groceries, New Orleans.  
Chester B. Albree Iron Works, Iron and Steel Goods Allegheny, Pa.  
Alcohol Utilities Co., Chemicals, New York City.  
The Aldon Co., Car Replacers, Chicago, Ill.  
C. H. Alden Co., Shoes, Abington, Mass.  
Andrew Alexander, Shoes, New York City.  
Alexander Lumber Co., Ltd., Lumber, Alexandria, La.  
Edgar Allen Am. Manganese Steel Co., Chicago, Ill.  
Alsens Am. Portland Cement Co., Cement, N. Y. C.  
Allen's Anti-Rust Co., Paints, Cincinnati, Ohio.  
Allis-Chalmers Co., Crushers, Milwaukee, Wis.  
The Allison Coupon Co., Coupon Books, Indianapolis.  
D. S. Alpaugh & Co., Commission Merchants, N. Y.  
Alpha Portland Cement Co., Cement, Easton, Pa.  
B. Altman & Co., Dry Goods, New York City.  
Aluminum-Rawhide Artificial Limb Co., Limbs, N. Y.  
A. S. Alve Instrument Co., Scientific Instruments, St. Louis, Mo.  
Amalgamated Paint Co., Paint, New York City.  
Amberg File & Index Co., Files, Chicago, Ill.  
Am. Agricultural Chemical Co., Fertilizers, N. Y. C.  
Am. Arc. Lamp Co., Arc Lamps, Kalamazoo, Mich.  
Am. Bank Note Co., Bank Notes, etc., N. Y. C.  
The Am. Bitumastic Enamels Co., Enamel, Philadelphia, Pa.  
American Blower Co., Blowers & Heaters, N. Y. C.  
Am. Brass Co., Brass Appliances, Waterbury, Conn.  
Am. Bridge Co., Structural Steel Goods, N. Y. City.  
Am. Butter Cutting Mach. Co., Butter Cutting Machines, New York City.  
American Calorific Co., Chemicals, New York City.  
American Circular Loom Co., Chelsea, Mass.  
American Company, New York City.  
Am. Cotton Oil Co., Cotton Oil, New York City.  
American Crayon Co., Crayons, Sandusky, Ohio.  
Am. Creosote Wks., Ltd., Creosote, New Orleans.  
The Am. Distributing Co., Wood Alcohol, N. Y. C.  
Am. Duplicator Co., Duplicator Compound, N. Y. C.  
Am. Elec. Works, Copper Wire, Phillipsdale, R. I.  
American Emery Wheel Works, Providence, R. I.  
Am. Fire Apparatus Co., Fire Apparatus, N. Y. C.  
American Frog & Switch Co., Railway Appliances, Hamilton, Ohio.  
American Fruit Produce Co., Apple Products, N. Y.  
Am. Gasaccumulator Co., Range Lights, Philadelphia.  
American Glue Co., Glue, New York City.  
American Hay Company, Oats and Hay, N. Y. C.  
American Hoist & Derrick Co., Rope & Cranes, St. Paul, Minn.  
American Iron & Steel Mfg. Co., Iron and Steel, Lebanon, Pa.  
Am. Iron & Steel Milling Co., Steel & Iron, N. Y. C.  
American Knife Co., Cutlery, New York City.  
American La France Engine Co., Steam Fire Engine, Elmira, N. Y.  
Am. Laundry Mach. Co., Laundry Mach., N. Y. C.  
American Lead Pencil Co., Pencils, New York City.  
American Linseed Co., Oils, New York City.  
Am. Locomotive Sander Co., Locomotives, Philadelphia, Pa.  
Am. Malleables Co., Malleable Iron Castings, N. Y. C.  
American Manganese Bronze Co., Material for Spillway Gates, New York City.  
American Mfg. Co., Rope, St. Louis, Mo.  
American Mercantile Co., Piles, Tacoma, Wash.  
The Am. Metal Co., Ltd., Copper, Ingot, N. Y. C.  
The American Metal Hose Co., Metal Hose, N. Y. C.  
American Milling Co., Dairy Feed, Chicago, Ill.  
Am. Negligee Co., Dry Goods, New York City.



1. Side view of dirt spreaders at work on the dumps.  
2. Front view of same.



- Am. Powder Mills., Fuse & Triple Tape, Chicago, Ill.  
 Am. Preserving Co., Food Products, Philadelphia.  
 Am. Ry. Device Co., Ry. Appliances, Chicago, Ill.  
 American Railway Supply Co., Laborer's Identification Checks, Police Caps, Coats, etc., N. Y. C.  
 American Road Machine Co., Spreaders, N. Y. C.  
 American Rolling Mill Co., Pipe, Middletown, Ohio.  
 American Rotary Valve Co., Vacuum Cleaning System, New York City.  
 Am. Rubber Mfg. Co., Rubber Goods, Emeryville, Cal.  
 American Safety Lamp & Mine Supply Co., Cylinder Plugs, Scranton, Pa.  
 Am. Sales Book Co., Sales Books, New York City.  
 American Screw Co., Providence, R. I.  
 Am. Sewer Pipe Co., Vitrified Sewer Pipe, Akron, O.  
 Am. Ship Windlass Co., Ship Equip., Providence.  
 American Specialty Mfg. Co., New York City.  
 Am. Spiral Pipe Works, Riveted Pipe, Chicago, Ill.  
 Am. Stamp Mfg. Co., Dating Stamps, N. Y. C.  
 American Steam Gauge & Valve Manufacturing Co., Safety Valves, Boston, Mass.  
 American Steam Gauge & Valve Manufacturing Co., Safety Valves, New York City.  
 Am. Steel & Wire Co., Steel & Wire, Chicago, Ill.  
 Am. Steel Foundries, Iron & Steel Goods, Chester, Pa.  
 Am. Steel Foundries, Steel Castings, Chicago, Ill.  
 American Sugar Refining Co., Sugar, New York City.  
 American Tag Co., Tags, New York City.  
 Am. Tie & Timber Co., Lumber, New York City.  
 American Tin Can Co., Tin Cans, New York City.  
 American Tobacco Co., Tobacco, New York City.  
 Am. Tool Wks. Co., Lathes, Planes, Drills, Cincinnati.  
 The American Towing & Lighting Co., Tug Boat, Baltimore, Md.  
 American Track Barrow Co., Lowell, Mass.  
 American Trading Co., Cement, New York City.  
 American Type Founders Co., Fixtures, Job Folders, Philadelphia, Pa.  
 American Typewriter's Co., Philadelphia, Pa.  
 American Watchmen's Time Detector Co., Electrical Watchmen's Clocks, New York City.  
 Am. Water Softener Co., Chemicals, Philadelphia.  
 Ames Iron Works, Iron and Steel, Philadelphia, Pa.  
 Anchor Packing Co., Packers, New York City.  
 R. P. Andrews Paper Co., Paper Supplies, Wash., D.C.  
 Annin & Co., Flags, New York City.  
 Anniston Cordage Co., Braided Cotton Sash Cord, Boston, Mass.  
 H. M. Anthony, New York City.  
 Apollinaris Agency Co., Mineral Water, N. Y. C.  
 Appel & Ujffy, Com. Merch., New Orleans, La.  
 J. Applegate & Co., Oysters and fish, New York City.  
 The Aqualite Fireproof Paint Co., Paint, N. Y. C.  
 Aqudneck Manufacturing Co., Newport, R. I.  
 Arbuckle Bros., Coffee, New York City.  
 R. S. Arcia, Supplies at Isthmian Hospital, Colon, Panama.  
 Arkay Rubber Co., Rubber Bands, New York City.  
 Arlington Manufacturing Co., Paints, N. Y. C.  
 The Armitage Mfg. Co., Coal Tar, Richmond, Va.  
 Armour & Co., Tallow and Glue, Chicago, Ill.  
 Armspear Manufacturing Co., Lanterns, N. Y. C.  
 Armstrong Box & Cork Co., New York City.  
 Armstrong Bros. Tool Co., Tool Holders, Chicago.  
 Armstrong Cork Co., Life Preservers, Cork Board, Pittsburgh, Pa.  
 Armstrong Iron Works, Washers, Vineland, N. J.  
 Armstrong, Walls & Co., New York City.  
 L. C. Arney, Cider, New Orleans, La.  
 J. H. Arnold, Stencils, New York City.  
 Art Metal Construction Co., Steel Office Fixtures, Jamestown, N. Y.  
 Henry Aschenbach Harness Co., Harness, N. Y. C.  
 Ashcroft Mfg. Co., Steam Gauges & Indicators, N. Y.  
 Ashland Fire Brick Co., Fire Clay, Ashland, Ky.  
 The Ashton Valve Co., Valves, New York City.  
 Atha Steel Castings Co., Steel Castings, Newark, N. J.  
 E. C. Atkins & Co., Saws, New York City.  
 Atlantic & Southwestern Broom Co., Brooms, Baltimore, Md.  
 Atlantic Creosoting & Wood Preserving Co., Creosoted Piles, Norfolk, Va.  
 Atlantic Equipment Co., Rock Buckets, N. Y. C.  
 Atlantic Grindstone Co., Grindstones, Providence.  
 Atlantic Gulf & Pacific Co., Dredge Equipment, N. Y.  
 Atlantic Hotel & Supply Co., Packers, N. Y. C.  
 Atlantic Insulated Wire & Cable Co., Copper Wire, New York City.  
 Atlas Car & Manufacturing Co., Locomotives, Electric Road Cars, Cleveland, Ohio.  
 Atlas Coal & Coke Co., Coke, Baltimore, Md.  
 The Atlas Export & Trading Co., Boiler Tubes, N. Y.  
 Atlas Portland Cement Co., N. Y.  
 William C. Atwater & Co., Coal, New York City.  
 D. Auerbach & Son, Candy, New York City.  
 The August Maag Co., Baltimore, Md.  
 Austin Mfg. Co., Well Drilling Machines, Steel Sprinklers, etc., Chicago, Ill.  
 The Automatic Time & Stamp Co., Time Stamps, Boston, Mass.  
 Auto Coil Co., Motor Equipment, Jersey City, N. J.  
 Auto Engine Stop Co., Motor Equipment, Sheboygan, Mich.
- B
- B. V. D. Co., Dry Goods, New York City.  
 Babbitt's Mfg. Co., Cleaning Powder, N. Y. C.  
 The Babcock & Wilcox Co., Boilers, Water Tubes, New York City.  
 Simon Bache & Co., Glass, New York City.  
 A. Backuss, Woodware, Detroit, Mich.  
 A. S. Bacon & Sons, Block & Sills, Savannah, Ga.  
 Vajen Bader Co., Richmond, Va.  
 E. B. Badger & Sons Co., Fire Extinguishers, Boston.  
 Baer Bros., Bronze Powders, New York City.  
 Baird Machinery Co., Steam Hammers, etc., Pittsburgh, Pa.

- Baker, Carver & Morrell, Machinery Supplies, N. Y.  
The William C. Baker Co., Handles, New York City.
- A. Baldwin & Co., Hardware, New Orleans, La.  
Frank Baldwin & Son, Freight Trucks, N. Y. C.  
Baldt Anchor Co., Anchors, Chester, Pa.  
Balfour, Guthrie & Co., Tacoma, Wash.  
Ballard & Ballard, Louisville, Ky.  
Ball Engine Co., Engines, Erie, Pa.  
William Ballentyne, Books, Washington, D. C.  
Baltic Electric Supply Co., Elec. Material, N. Y. C.  
Baltimore Bridge Co., Girders, Running Crane, Plate Girders, Baltimore, Md.  
Baltimore Hub Wheel & Mfg. Co., Bows, Baltimore.  
The Baltimore Steel Co., Base Plates, New Castle, Del.
- Bernard Bandler & Son, Carbons, New York City.  
F. S. Banks & Co., Wrenches, New York City.  
Barber & Ross, Hardware, Washington, D. C.  
B. S. Barnard & Co., Conduits, New York City.  
Barnhart Bros. & Spindler, Type Foundry Supplies, Washington, D. C.
- Albert J. Barnes, Wrenches, Engines, N. Y. C.  
W. F. & J. Barnes, Rockford, Ill.  
Barnett & Brown, Hose Supplies, New York City.  
Barrett Mfg. Co., Coal Tar Liquid, Philadelphia, Pa.  
J. Barre & Co., Electrical Supplies, New York City.  
James S. Barron & Co., Trucks, Wheelbarrows, N. Y.  
L. Barth & Son, Hotel Supplies, New York City.  
Bassett-Presley Co., Angles, Cleveland, Ohio.  
Bates Mfg. Co., Numbering Machines, N. Y. C.  
A. J. Bates, Shoes, New York City.  
Battleship Mfg. Co., Wearing Apparel, New Orleans.  
Alber E. Bauer, New York City.  
Ludwig Baumann & Co., Desks, New York City.  
J. Baumgarten & Sons, Rubber Stamps, Brass Checks, Washington, D. C.  
Bausch & Lomb Optical Co., Optical Goods, Rochester, N. Y.
- G. S. Baxter & Co., Ties, New York City.  
Bay Shore Lumber Co., Lumber, Mobile, Ala.  
Beall Bros., Tools, Chicago.  
J. W. Beardley Sons Co., Shredded Codfish, N. Y.  
The Becker Mill Co., Door and Window Casings, Marietta, Ohio.  
Becker-Brainard Milling Machinery Co., Machines, Hyde Park, Mass.
- Beedleston & Woerz, Liquors, N. Y. C.  
J. L. Beers & Co., Com. Merchant, New Orleans, La.  
H. Behr & Co., Abrasive Paper and Cloth, N. Y. C.  
Belber Trunk & Bag Co., Trunks, N. Y. C.  
Belding & Franklin Machine Co., Potato Peeling Machines, New York City.  
Bell & Bogart Soap Co., Soap, New York City.  
Bellaire Bottle Co., Bottles, Bellaire, Ohio.  
Belknap Hardware & Mfg. Co., Hardware, Louisville, Ky.  
The Belknap Wagon Co., Trunks, Grand Rapids, Mich.  
Belle Meade Sweet Makers, Candy, Trenton, N. J.
- Bellingham Bay Improvement Co., San Francisco.  
Benedict Commission Co., Ltd., Commission Merchants, New Orleans, La.  
E. M. Benford, Spark Plugs, Mt. Vernon, N. Y.  
Bentell & Margedant Co., Car Bearings Machine, Hamilton, Ohio.  
Bergen, Crittenden Milling Co., Flour, Milwaukee.  
Berger Mfg. Co., Sheet Metal Products, Canton, O.  
C. L. Berger & Sons, Scientific Instruments, Boston.  
Berlin Constn. Co., Structural Steel Bridges, New York City.  
Berlin & Jones Envelope Co., Stationery, N. Y. C.  
Berlin Machine Works, New York City.  
Berlin Machine Works, Timber, Planer, Beloit, Wis.  
Jacob Bernheimer & Bros., Dry Goods, N. Y. C.  
Bernstein Mfg. Co., Canvas Bunks, Bedsteads, Philadelphia, Pa.  
Otto Bernz, Newark, N. J.  
Berry & Aikens, Philadelphia, Pa.  
Berry Bros., Varnish & Shellac, New York City.  
Berwind-White Coal Mining Co., Coal, New York C.  
W. N. Best American Calorific Co., Ovens and Furnaces, New York City.  
W. N. Best, Oil Burners, New York City.  
Best & Company, White Duck Cloth, Chicago, Ill.  
Bethlehem Foundry & Machine Co., Steel Supplies, S. Bethlehem, Pa.  
F. S. Betz Co., Dental Supplies, Hammond, Ind.  
J. S. Biesecker, Dairy Supplies, New York City.  
Bigelow & Dowse Co., Hardware, Boston, Mass.  
Billings, King & Co., New York City.  
The W. Bingham Co., Tacks, Cleveland, Ohio.  
The Bird-Archer Co., Boiler Chemicals, N. Y. C.  
J. A. & W. Bird Co., Felt, Boston, Mass.  
F. W. Bird & Son, Insulating Sheathing Paper, East Walpole, Mass.  
Fred Bischoff Co., General Supplies, N. Y. C.  
Bischoff & Co., Cocoa & Chocolate, Brooklyn, N. Y.  
Bishop Furniture Co., Furniture, Grand Rapids, Mich.  
The Robert Bishop Mfg. Co., Waste Cotton, Boston.  
The F. Bissell Co., Insulators, Toledo, Ohio.  
Eugene G. Blackford, Fish, New York City.  
Blackstone's Sons, Books, Philadelphia, Pa.  
Blackall & Baldwin Co., Centrifugal Pumps, N. Y.  
George F. Blake Manufacturing Co., Water and Steam Pumps, New York City.  
The Blake & Knowles Steam Pump Works, Pumps, N. Y. C.  
John Blakeley & Son, Philadelphia, Pa.  
Blaw Steel Constn. Co., Steel Frames, Pittsburgh, Pa.  
Blaisdell Mach. Co., Air Compressors, Bradford, Pa.  
Bleecker & Simons, Tea, New York City.  
Block Bros., Tobacco, New York City.  
Bliss & Perry Co., Shoes, Newburyport, Mass.  
The Blog Shoe Finding Co., New York City.  
Bloomingdale Bros., Department Store, N. Y. C.  
Blum Bros., Clothing, New York City.  
Blum & Koch, Hats, New York City.  
Bobbie Foundry & Machine Co., New York City.

- Bodley Wagon Co., Dump Carts and Wagons, Memphis, Tenn.
- Henry A. Bogardus & Co., Gauges, Chicago, Ill.
- Jacob Bokenjohn, Com. Merchant, New Orleans, La.
- Bond Scale Co., Los Angeles, Cal.
- Charles Bond & Co., Philadelphia, Pa.
- B. F. Bond Paper Co., Paper, Washington, D. C.
- Borden's Condensed Milk Co., Condensed Milk, N. Y.
- Borsum Bros., Metal Polish, New York City.
- Borum Hat Co., Hats, New York City.
- Louis Bossert & Son, Doors, Sashes, etc., N. Y. C.
- Boston Belting Co., Belting, Boston, Mass.
- Boston & Lockport Block Co., East Boston, Mass.
- Boston Steamship Co., Steamers, Boston, Mass.
- Boston Woven Hose & Rubber Co., Steam Hose, Cambridge, Mass.
- Boston & Lockport Block Co., Blocks, E. Boston, Mass.
- H. E. Boucher Manufacturing Co., Handles, Copying Pencils, Black Paint, New York City.
- Maurice Bouvier, New York City.
- Bowman-Edson, General Supplies, N. Y. C.
- Bowers Rubber Works, Rubber Goods, Contra Costa, Cal.
- S. F. Bowser & Co., Oil Pumps, Ft. Wayne, Ind.
- George P. Boyce, Dry Goods, New York City.
- James Boyd & Bro., Philadelphia, Pa.
- John Boyle, Drugs, New York City.
- Bradley, Currier Co., Doors, Sashes, New York City.
- Bradley & Hubbard, New York City.
- C. C. Bradley & Son, Power Hammers, Syracuse, N. Y.
- The Brady Brass Co., Brass Castings, N. Y. C.
- Bramhall Deane Co., Ranges, New York City.
- F. A. Branda & Co., Pipe, Government Contractors, New York City.
- F. A. Brander & Co., New York City.
- Isaac Brandon & Bros., Wholesale Groceries, N. Y.
- Brandt Casher Co., Automatic Cashiers, Chicago.
- Brennan Motor Mfg. Co., Motors, Syracuse, N. Y.
- Bretch, B. S., Co., New York City.
- Gus V. Bretch, New York City.
- Briarcliff Farms, Dairy Products, New York City.
- Bridgeport Brass Co., Copper Tubing, N. Y. C.
- Bridgman Bros. Co., Valves, Philadelphia, Pa.
- J. G. Brill Co., Car and Truck Builders, Philadelphia.
- Brinsdown Lead Co., Ltd., New York City.
- Bristol Co., Voltmeters, Waterbury, Conn.
- Briscoe Mfg. Co., Garbage Cans, Detroit, Mich.
- British Am. Tobacco Co., Tobacco, New York City.
- Broderick & Bascom Rope Co., Rope Cables, St. Louis, Mo.
- A. F. Brombacher & Co., Hardware, N. Y. C.
- The Bronze Metal Co., Brass, New York City.
- Brooklyn Specialty Manufacturing Co., Laundry Machinery, Brooklyn, N. Y.
- Brooklyn Varnish Mfg. Co., Oils & Var., B'k'n, N. Y.
- E. J. Brooks & Co., Railway Supplies, N. Y. C.
- W. B. Brouard, New York City.
- The Brown Shoe Co., Shoes, St. Louis, Mo.
- Brown & Bailey, Boxes, New York City.
- Buster Brown Hosiery Mills, Hosiery, N. Y. C.
- Brown & Co., Inc., Iron, Pittsburgh, Pa.
- W. B. Brown Co., Stationery, New York City.
- Brown & Sharp Mfg. Co., Machines, Providence.
- The Brown Hoisting Machinery Co., Hoisting Equipment, Cleveland, Ohio.
- F. A. Brownell Motor Co., Motor Parts, Rochester.
- The Browning Engineering Co., Wrecking and Coaling Cranes, Cleveland, Ohio.
- Browning, King & Co., Men & Boys' Clothing, N. Y.
- Brownrigg & Stevenson, Rubber Goods, N. Y. C.
- Bruce & Cook, Boiler Plate, New York City.
- Bruen Ritchey Co., Drugs, New York City.
- Brunswick Balke-Collander Co., Amusement Devices, New York City.
- Bryan & Company, Detroit, Mich.
- Bryant Zinc Co., Zinc Material, New York City.
- John Bryne & Co., Books, Washington, D. C.
- T. S. Buck Mfg. Co., Flexible Stamps, N. Y. C.
- Buckeye Engine Co., Engines, Salem, Ohio.
- Buckeye Paint & Varnish Co., Lampblack and Putty, Toledo, Ohio.
- The Buckeye Steel Casting Co., Steel Castings, Columbus, Ohio.
- Bucyrus Co., Steam Shovels, S. Milwaukee, Wis.
- Buda Foundry & Manufacturing Co., N. Y. C.
- The Buda Co., Switches, etc., Chicago.
- Buff & Buff Manufacturing Co., Rivets, Boston.
- Buffalo Foundry Supply Co., Sea Coal, Buffalo, N. Y.
- Buffalo Forge Co., Engine, Buffalo, N. Y.
- Buffalo Gasolene Motor Co., Motors, Buffalo, N. Y.
- Buffalo Milling Co., Flour, Philadelphia, Pa.
- Buffalo Steam Pump Co., Pumps, New York City.
- Buffalo Steam Roller Co., Steam Rollers, Buffalo.
- Buhl Malleable Co., Iron Castings, Detroit, Mich.
- Edward E. Buhler Co., Bldg. Supplies, N. Y. C.
- Builders Iron Foundry, Pipe and Meter Tube, Providence, R. I.
- J. H. Bunnell & Co., Electric Supplies, N. Y. C.
- Burke & James, Chicago, Ill.
- Burnham & Morrell, Canned Goods, Portland, Me.
- E. Reed Burns, Elec. Plating Outfit, Brooklyn, N. Y.
- Jabez Burns Sons, Machinery, New York City.
- E. W. Burr, Provisions, New York City.
- Burroughs Adding Machine Co., Adding Machines, Detroit, Mich.
- Burroughs Adding Machine Co., Adding Machines, Washington, D. C.
- E. T. Burrows Co., Billiard & Card Tables, N. Y. C.
- E. T. Burrows Co., Wire Cloth, Portland, Me.
- Burton Bros. & Co., Dry Goods, New York City.
- Burton & Davis, Chemicals, Grocery, Cannery, N. Y.
- Charles W. Butler, Desks, Washington, D. C.

## C

- C. & C. Elec. & Mfg. Co., Elec. Machines, N. Y. C.
- The C. & C. Fire Hose Co., Fire Hose, Canton Junction, Mass.

- Glen Cairn Mfg. Co., Shoestrings, Pawtucket, R. I.  
 The California Asphaltum Co., Asphalt, N. Y. C.  
 California Fruit Cannery Association, Fruits, San Francisco, Cal.  
 Callahan & Meyers, Shoes, Allentown, Pa.  
 Emil Calman & Co., Varnishes, New York City.  
 Camden Iron Works, Hydrants, Camden, N. J.  
 Camel Co., Chicago, Ill.  
 A. S. Cameron Steam Pump Works, Pumps, N.Y.C.  
 Alfred J. Cammeyer, Shoes, New York City.  
 Camp & Heaton Co., Lumber, Lumberton, Miss.  
 Camp & Hinton Co., New Orleans, La.  
 William G. Campbell, Stationery, New York City.  
 Braxton W. Campbell, Cincinnati, Ohio.  
 J. Campbell Soup Co., Soups, Camden, N. J.  
 Campbell Electric Co., Lynn, Mass.  
 Canadian Milling & Evaporator Co., Flour, El Reno, Okla.  
 Candee, Smith & Howland Co., Masons' Materials, New York City.  
 A. L. Canfield, Cooking Ranges, New York City.  
 H. Cannon & Co., R. R. & Contr. Sup., Chicago, Ill.  
 Cape Fear Chemical Co., Oil, New York City.  
 Caplan, Frand & Denner, Clothing, N. Y. C.  
 The Carborundum Co., Wheels, Niagara Falls, N. Y.  
 Carbolineum Wood Preserving Co., Carbolineum, New York City.  
 Carbondale Calcium Co., Chemicals, N. Y. C.  
 Carbondale Mfg. Co., Machinery, New York City.  
 The Philip Carey Mfg. Co., Cement, Cincinnati, O.  
 Carlisle Commission Co., Hay, Kansas City, Mo.  
 Carpenter Steel Co., Steel, Reading, Pa.  
 George B. Carpenter & Co., Sash Cords and Manila Rope, Chicago, Ill.  
 L. H. Carr & Co., Bedding, Brooklyn, N. Y.  
 William Carroll & Co., Inc., Hats, New York City.  
 Carter Iron Co., Iron, Pittsburgh, Pa.  
 The Carton Belting Co., Dressing Belt, Boston, Mass.  
 Casco Bay Packing Co., Fish & Oysters, Freeport, Me.  
 John A. Casey Co., Naval Supplies, New York City.  
 The Casey-Hedges Co., Pipe, Chattanooga, Tenn.  
 John Cassidy, New York City.  
 T. P. Castle, Ranges, Quincy, Ill.  
 Castner, Curran & Bullitt, Inc., Smokeless Coal, N. Y.  
 Cataract City Milling Co., Flour, Niagara Falls, N. Y.  
 Cataract Refining & Mfg. Co., Cutting Compound, Buffalo, N. Y.  
 C. J. Caughey, Groceries, New York City.  
 J. H. Cautier & Co., Jersey City, N. J.  
 Cavanaugh Bros. & Co., Wholesale Druggists, N. Y.  
 Cella Bros., Inc., Macaroni and Spaghetti, groceries, New York City.  
 Central American Construction Co., Ltd., Construction Work, Colon, Panama.  
 Central Elec. Co., Electrical Supplies, Chicago, Ill.  
 Central Metal & Supply Co., Valves, Baltimore, Md.  
 Cereal Food Company, Peoria, Ill.  
 William H. Chafe, Emery Cloth, Cambridge, Mass.  
 Champman Valve Manufacturing Co., Gate Valves, Indian Orchard, Mass.  
 Chandler Bros. & Co., Bankers and Brokers, Philadelphia, Pa.  
 The Charles Nelson Co., San Francisco, Cal.  
 Charlotte Leather Belting Co., Leather Belting, Charlotte, N. C.  
 John Chatillon & Sons, Scales, New York City.  
 Chatland & Lenhart, Cracker Mfrs., Brownsville, Pa.  
 Chattanooga Car & Foundry Co., Castings, Chattanooga, Tenn.  
 The Chattanooga Pipe & Foundry Co., Pipe, Chattanooga, Tenn.  
 The Chemical Importing & Mfg. Co., Prussiate Potash, New York City.  
 Chesapeake & Ohio Coal & Coke Co., Coal, Washington, D. C.  
 Chicago Bearing Metal Co., Car Journal Bearings, Chicago, Ill.  
 Chicago Bridge & Iron Works, Tanks, Chicago, Ill.  
 Chicago Belting Co., Belting, Chicago, Ill.  
 Chicago House Wrecking Co., Chicago, Ill.  
 Chicago Lumber & Coal Co., Lumber, St. Louis, Mo.  
 Chicago Pneumatic Tool Co., Pneumatic Tools, Chicago, Ill.  
 Chicago Steel Tape Co., Chicago, Ill.  
 Children's Vehicle Corporation, Baby Carriages, East Templeton, Mass.  
 Chilton Paint Co., Varnish, Long Island, N. Y.  
 Chisholm & Moore Mfg. Co., Traveling Cranes, New York City.  
 Chloride of Silver Dry Cell Battery Co., Baltimore.  
 Christy Fire Clay Co., Fire Clay, St. Louis, Mo.  
 H. B. Claffin Co., Dry Goods, New York City.  
 Waldo M. Claffin, Shoes, Philadelphia, Pa.  
 H. A. Clarke & Co., New York City.  
 R. P. Clark & Co., Furniture, Washington, D. C.  
 Clark-Hutchinson Co., Shoes, New York City.  
 Charles H. Clayton, Publishers, New York City.  
 Clement & Stockwell, Paper, New York City.  
 James Clendenin, Zinc, Baltimore, Md.  
 The Cleveland Crane Engineering Co., Repair Parts, Wickliffe, Ohio.  
 Harry D. B. Clapp & Co., Wool Waste, Philadelphia.  
 Cleveland Faucet Co., Machinery, New York City.  
 Cleveland Pneumatic Tool Co., Pneumatic Tools, Cleveland, Ohio.  
 Cleveland Provision Co., Commissary Supplies, Cleveland, Ohio.  
 The Cleveland Punch & Shears Works, Punches, Cleveland, Ohio.  
 Cleveland Stamping & Tool Co., Tools, Cleveland, O.  
 The Cleveland Tool & Supply Co., Tools and Supplies, Cleveland, Ohio.  
 The Cleveland Twist Drill Co., Drills, Cleveland, O.  
 The Cleveland Varnish Co., Varnish, Cleveland Ohio  
 Cliff & Guibert Co., Hose Reels, New York City.  
 Cliff & Co., Oakum, New York City.  
 Climax Bearing Co., Detroit, Mich.  
 Climax Fuse Co., Fuse, New York City.

- E. Clinton & Co., Brushes, Philadelphia, Pa.  
 Clinton Wire Cloth Co., Wire Netting, Clinton, Mass.  
 Clinton Wire Cloth Co., Wire Screens, N. Y. C.  
 Cliquot Club Co., Ginger Ale, Millus, Mass.  
 John Clochessy, Paper, New York City.  
 Clowes Shear Co., New York City.  
 James B. Clow & Sons, Plumbing, Chicago, Ill.  
 Cluett, Peabody Co., Collars, Cuffs & Shirts, N. Y.  
 Thomas E. Coale Lumber Co., Lumber, Philadelphia.  
 Coates Clipper Mfg. Co., Worcester, Mass.  
 Cobb Engrg. Co., Mach. Supplies, Boston, Mass.  
 Cockburn Barrow & Machine Co., Automatic Buckets, Jersey City, N. J.  
 Code, Porterwood Co., San Francisco, Cal.  
 E. P. K. Coffin, Stationery, New York City.  
 Coffin Valve Co., Valves, Neponset, Boston, Mass.  
 Cohen, Goldman Co., Clothing, New York City.  
 Colgate & Co., Talc. Powder & Soap, Jersey City, N. J.  
 Collins & Co., New York City.  
 Colombo Macaroni Factory, Macaroni, New Orleans.  
 Colonial Steel Co., Iron, Pittsburgh, Pa.  
 Columbia Chemical Co., Brooklyn, N. Y.  
 Columbia Incandescent Lamp Co., Incandescent Lamps, Carbon, St. Louis, Mo.  
 Columbia Facing Mills Co., Foundry Facings, Buffalo, N. Y.  
 Columbia Incandescent Lamp Co., N. Y. C.  
 Columbia School & Supply Co., Desks and Seats, Indianapolis, Ind.  
 Columbia Smelting & Refining Works, Zinc and Lead, New York City.  
 Columbian Rope Co., Manila Rope, Auburn, N. Y.  
 Columbus Chain Co., Hoisting Chains, Columbus, O.  
 Columbus Dist. Co., New York City.  
 Colwell Lead Co., New York City.  
 Combination Ladder Co., Hose Wagons, N. Y. C.  
 Combination Rubber Manufacturing Co., Hand Rubber Valves, Bloomfield, N. J.  
 Combination Rubber Co., New York City.  
 Commercial Acetylene Co., New York City.  
 Commonwealth Shoe & Leather Co., Shoes, Boston.  
 Compressed Air Machinery Co., Compressed Air Equipment, San Francisco, Cal.  
 Comyn, Mackall & Co., San Francisco, Cal.  
 Concrete Spade Manufacturing Co., Perforated Spades, Valparaiso, Ind.  
 C. B. Cones Co., Clothing, New York City.  
 Concrete Steel Co., Steel Reinforcement Bars, N. Y.  
 Geo. E. Conley, Commission Merchant, N. Y. C.  
 Conley Tin Foil Co., New York City.  
 Conron Bros., Packers, New York City.  
 Consolidated Eng. Strap Co., New York City.  
 Consolidated Safety Valve Co., Valves, N. Y. C.  
 Consolidated Sales Co., Steel Plates, Wash., D. C.  
 Consolidated Stamp Mfg. Co., Stamps, N. Y. C.  
 Consolidated Wafer Co., Brooklyn, N. Y.  
 Peter J. Constant, Brooms, Brooklyn, N. Y.  
 Consumers Flavoring Extract Co., Christmas Tree Ornaments, New York City.  
 Consumers Supply Co., Stationery, N. Y. C.  
 Continental Rubber Works, Suction Hose, N. Y. C.  
 Contractors Supply & Equipment Co., Concrete Mixers, New York City.  
 Adam Cook's Sons, Yellow Lubricating Grease, N. Y.  
 William P. Cook & Co., Cross Ties, N. Y. C.  
 Cook & Cokefair Co., Peerless Oil, New York City.  
 Peter Cooper's Glue Factory, Glue, etc., N. Y. C.  
 Raymond Copeland, Flour, New York City.  
 M. G. Copeland, Bunting, Washington, D. C.  
 Cooper-Hewitt Elec. Co., Tubes, New York City.  
 Corliss, Coon Co., Collars, New York City.  
 Corn Products Refining Co., Karo and Syrups, N. Y.  
 J. D. Cornell Co., Packers, New York City.  
 Cornelius Furniture Co., Furniture, Cornelius, N. C.  
 Cornell & Underhill, Wrought Iron Pipe, N. Y. C.  
 Corona Supply Co., Typewriter Supplies, Rochester, N. Y.  
 Corrugated Bar Co., Corrugated Steel Bars, Buffalo.  
 Cortland Skirt Co., Dry Goods, New York City.  
 Coston Signal Co., New York City.  
 H. T. Cottan & Co., Rice & Molasses, New Orleans.  
 Cowdrey & Co., Engine and Valve Oil, N. Y. C.  
 E. D. Cowell, New York City.  
 George Cowen, Window Glass, New York City.  
 L. D. Cramer, Stock Feed, New York City.  
 William Cramp & Sons Ship & Engine Building Co., Ships and Engines, Philadelphia, Pa.  
 The Crandall Packing Co., New York City.  
 Crandall Pettee Co., Baker's Supplies, N. Y. C.  
 Crane Co., Flanged Fittings, Plumbers Supplies, Chicago, Ill.  
 Crane Cooperage Co., New York City.  
 Herbert Crapster, Plumber's Supplies, N. Y. C.  
 William J. Crawford, Oils & Greases, Pittsburgh, Pa.  
 W. G. Creamer & Co., New York City.  
 J. W. Cregar Agency, Machines, Philadelphia, Pa.  
 Crerar, Adams Co., Trucks, Chicago, Ill.  
 Crescent Bed Co., New Orleans, La.  
 Crescent Cigar & Tobacco Co., Tob., New Orleans.  
 Cresca Co., Fruits, New York City.  
 George V. Cresson Co., Clutch Pulley, Philadelphia.  
 Crew Levick Co., Dynamos, Oil, Philadelphia, Pa.  
 Cronell & Matthews, Manhole Rings and Covers, Philadelphia, Pa.  
 Crosby Steam Gauge & Valve Co., Boston, Mass.  
 Crouse-Hinds Co., Lighting Appar., Syracuse, N. Y.  
 Crouse-Hinds, Electrical Appliances, Syracuse, N. Y.  
 John A. Crowley & Co., Steel Material, N. Y. C.  
 Crown Suspender Co., Dry Goods, New York City.  
 Crown Oil & Wax Co., Engine Oil, Baltimore, Md.  
 Crown Ribbon Co., New York City.  
 The Crucible Steel Co. of America, New York City.  
 Crucible Steel Co. of America, Steel and Sheet Copper, Pittsburgh, Pa.  
 Crupples Adjustable Tooth Co., Steel Castings, Dipper Teeth, Tryon, Pa.  
 Crystal Lumber Co., Lumber, New Orleans, La.



Curtain Supply Co., New York City.  
 Curtice Bros., Groceries, Rochester, N. Y.  
 Curtiss & Blasdell, Coal, New York City.  
 The Cutler-Hammer Mfg. Co., Limit Switches,  
 Milwaukee, Wis.  
 Cutlet Electric & Motor Co., Philadelphia, Pa.  
 Cuyler & Mohler, Galvanized Iron Pipe, Baltimore.  
 The Cyclone Drill Co., Drilling Machs., Orrville, O.  
 Cypress Incubator Co., New York City.

## D

Dailey & Ivins, Sea-going Tugs, New York City.  
 Dairy Farm & Produce Co., Comsy. Sup., N. Y. C.  
 Dairy Mach. & Cont. Co., Machinery, Derby, Conn.  
 Dake Engine Co., Motor Hoists, Grand Haven, Mich.  
 H. T. Dakin, Paper Manufacturers, New York City.  
 F. E. Dalley & Co., Shoe Polish, Buffalo, N. Y.  
 James Dalzell Co., Pittsburgh, Pa.  
 John Damm & Sons Brush Mfg. Co., Brushes, St.  
 Louis, Mo.  
 Danville Stove & Mfg. Co., Ranges, Danville, Pa.  
 Damon & Peet, Ptg. Presses and Sup., N. Y. C.  
 George Damon & Son, Ptg. Machinery, N. Y. C.  
 George F. Daniels & Co., Shoes, Boston, Mass.  
 Dann & Peckner, Wearing Apparel, New York City.  
 F. F. Dans & Co., Duplicating Machines, N. Y. C.  
 C. A. Danzenbaker, Asbestos Packing, Washington,  
 D. C.  
 Ed Darby & Sons Co., Ltd., Lockers, Phila., Pa.  
 Darrah & Small, Door Mats, New York City.  
 John B. Dauchy, Linseed Oil, New York City.  
 Davenport Locomotive Works, Locomotives, Dav-  
 enport, Ia.  
 George W. Davidson & Co., Unions, New Orleans.  
 Davis & Brandon, Piling, Jacksonville, Fla.  
 Davis-Bournonville Co., Machinery Welding and  
 Cutting Apparatus, New York City.  
 The Davis Coke & Coal Co., Coke, Coal, N. Y. C.  
 H. B. Davis Co., Metallic Brown, Baltimore, Md.  
 J. H. Day, Hardware, Cincinnati, Ohio.  
 The Deane Steam Pump Co., Steam Pumps, N. Y. C.  
 Decker & Son, Inc., Piano Mfrs., New York City.  
 Defiance Lumber Co., Lumber, Tacoma, Wash.  
 De Gram, Aymar Co., New York City.  
 Lewis De Groff & Sons, Commissary Sup., N. Y. C.  
 P. Delany & Co., Mooring Buoys, Newburgh, N. Y.  
 Howard S. Delany, Reams, Cloth, Philadelphia, Pa.  
 De Laval Steam Turbine Co., Motor Pumps, Tren-  
 ton, N. J.  
 The Delaware Marine Supply Co., Butts, Hinges,  
 Wilmington, Del.  
 Del Monte Milling Co., Flour, San Francisco, Cal.  
 Edmond E. Delp & Co., Philadelphia, Pa.  
 Delpark Production Co., Ties, New York City.  
 Delphi Wagon Works, School Wagons, Delphi, Ind.  
 W. B. Deming, Railway Material, New York City.  
 Denman & Davis, Iron and Steel, New York City.  
 Dennison Manufacturing Co., Paper Goods, N. Y. C.  
 Densmore Typewriting Co., New York City.  
 Denzer, Goodhart & Schener, Wearing Ap., N. Y. C.  
 William Dermuth & Co., New York City.  
 Detroit Graphite Co., New York City.  
 Detroit Hoist & Machine Co., Detroit, Mich.  
 Detroit Leather Specialty Co., Inc., Leather, Detroit.  
 Detroit Lubricator Co., Detroit, Mich.  
 Detroit Steel Casting Co., New York City.  
 De Vane Mfg. Co., Hammer Handles, Brevard, N.C.  
 Deven Telephone Mfg. Co., New York City.  
 F. W. Devoe & C. T. Reynolds Co., Paints and  
 Varnish, New York City.  
 Dexter Folding Co., Folding Machines, N. Y. C.  
 John A. Dialogue & Son, Propellers, Camden, N. J.  
 Diamond Ink Co., Paste, Milwaukee, Wis.  
 Diamond Rubber Co., New York City.  
 A. B. Dick & Co., Edison Mimeographs, Chicago, Ill.  
 Dickerson Vandusen & Co., Zinc Plates & Sheets,  
 New York City.  
 Walter S. Dickey, Drain Tile, Fire Brick, Pipe, etc.,  
 Kansas City, Mo.  
 Walter S. Dickey, Vitrified Clay Duct, Kansas City.  
 Stewart Dickson & Co., Packing Asbestos, N. Y. C.  
 Diebold Safe & Lock Co., Vault Doors, N. Y. C.  
 Dietrich Bros., Steel, Baltimore, Md.  
 R. E. Dietz Co., Lanterns, New York City.  
 Dietz Engineering Co., Valves, New York City.  
 Eugene Dietzen Co., Blue Print Paper, N. Y. C.  
 L. L. Diggs & Co., Hatchets, Adzes, Scythes, N. Y. C.  
 Diggs Fire Extinguisher Co., New York City.  
 J. B. Dill & Co., Tobacco, Richmond, Va.  
 Dillworth, Gilbert & Towne & Co., N. Y. C.  
 Dillworth, Porter & Co., Track Spikes, Pittsburgh.  
 Dimmick Pipe Co., Pipe, Birmingham, Ala.  
 Hy Disston & Sons, New York City.  
 Joseph Dixon Crucible Co., Crucibles, Phila., Pa.  
 Dobler & Mudge, Canvas, Paper, Baltimore, Md.  
 Dodge & Alcott, Chemicals, New York City.  
 Dodge & Sweeney, Commissary Sup., San Francisco.  
 Dodge, Bliss Co., Lumber, Jersey City, N. J.  
 E. Doherty Rubber Works, Brooklyn, N. Y.  
 Jacob Dold Packing Co., Buffalo, N. Y.  
 J. F. W. Dorman & Co., Stationery, Baltimore, Md.  
 Double Service Packing Co., Philadelphia, Pa.  
 The John Douglas Co., Plumbing Sup., Wash., D. C.  
 J. Maury Dove Co., Coal, Washington, D. C.  
 Dover Boiler Works, Boilers, Dover, N. J.  
 Drake Standard Machine Works, Concrete Mixers,  
 Chicago, Ill.  
 S. R. Dresher, Razors, New York City.  
 The Dressel Railway Lamp Works, Oil Cans, N. Y.  
 Drew Machinery Co., Carborundum Wheels,  
 Manchester, N. H.  
 Dreyfous & Co., Ltd., Mosquito Bars, New Orleans.  
 Dreyer Hat Co., Hats, New York City.  
 Drouve & Co., Bridgeport, Conn.  
 M. J. Drummond & Co., Iron Pipe, N. Y. C.  
 Dry Milk Co., New York City.  
 James B. Drysdale, Chairs, New York City.  
 F. N. Du Bois & Co., Pipe Elbows, New York City.

B. P. Ducas Co., Chemicals, New York City.  
 Ducker Co., Sectional Building, New York City.  
 Richard Dudgeon, Jacks, New York City.  
 Duetsche Maschinenfabrik Actiengesellschaft, of  
 Duisburg, Germany, Two Floating Cranes.  
 P. Duff & Sons, Commissary Supplies, N. Y. C.  
 The Duff Mfg. Co., Loco. Jacks, Pittsburgh, Pa.  
 J. P. Duffy Co., Mason Supplies, New York City.  
 Dugan & Hudson, Shoes, Rochester, N. Y.  
 Duhrkop Oven Co., New York City.  
 Duluth Superior Milling Co., Duluth, Minn.  
 A. Dumser & Co., Cheese, New Orleans, La.  
 G. W. Dunbar Sons, Commission Merchant, New  
 Orleans, La.  
 W. M. Duncan, Refrigerators, New York City.  
 J. H. Dunham & Co., Wearing Apparel, N. Y. C.  
 Dunlap Printing Co., Money Order Pads, Phila., Pa.  
 Duparquet Huot & Moneuse Co., Ranges, etc.,  
 Washington, D. C.  
 M. Du Perow, Copper Cable, Washington, D. C.  
 Duplex Roller Bushing Co., Blocks, Belfast, Maine.  
 E. I. Du Pont Powder Co., Wilmington, Del.  
 Duque & Co., Molasses, New Orleans, La.  
 N. C. Durie Co., Rubber Goods, St. Louis, Mo.  
 C. D. Durkee & Co., Marine Goods, New York City.  
 Durkee's Salad Dressing Co., New York City.  
 Dutchess Tool Co., Fishkill-on-Hudson, N. Y.  
 Duryea & Barwise, Coffee, New York City.  
 Charles W. Dwenger, New York City.  
 Dwyer Bros., Wearing Apparel, New Orleans, La.

## E

Eagle Lock Co., Locks, New York City.  
 Eagle Pencil Co., Pencils, etc., New York City.  
 Eagle Rolling Mill Co., Flour, New Ulm, Minn.  
 Earle Brush Co., Columbia, Pa.  
 Earle & Wilson, Shirts, New York City.  
 Earle Gear & Machine Co., Philadelphia, Pa.  
 John Earlies Sons, Brooms, New York City.  
 Early & Daniel Co., Forage, Cincinnati, Ohio.  
 James N. Early, Kitchen Utensils, New York City.  
 Eastern Granite Roofing Co., Roofing, N. Y. C.  
 Eastman Kodak Co., Kodaks, Rochester, N. Y.  
 Perley R. Eaton, Lumber, Fitchburg, Mass.  
 Eckhart Milling Co., Flour, Chicago, Ill.  
 Eclipse Wood Pulley Co., Berlin, Pa.  
 Edison Mfg. Co., Electrical Supplies, N. Y. C.  
 E. J. Edmond Co., Auto Supplies, New York City.  
 Edna Brass Mfg. Co., Loco. Injectors, Cincinnati, O.  
 Eichold & Miller, New York City.  
 Einers & Amend, Testing Apparatus, N. Y. C.  
 Anthony Eisler & Co., Tape, New York City.  
 Ekenberg Milk Producing Co., New York City.  
 Electric Appliance Co., Molding, New Orleans, La.  
 Electric Controller & Manufacturing Co., Lifting  
 Magnet, Philadelphia, Pa.  
 Electric Hose & Rubber Co., New York City.  
 Eldredge Baker & Co., Groceries, Boston, Mass.

Electro-Silicon Co., New York City.  
 G. Elias & Bros., Lumber, Buffalo, N. Y.  
 John Ellice & Co., Cotton Waste, New York City.  
 Ellicott Machine Corporation, Dredge, Baltimore.  
 Elliot Fisher Co., Machine Head and Repair Tools,  
 Harrisburg, Pa.  
 Elliott Addressing Machine Co., New York City.  
 Elmer De Pue, Wines, New York City.  
 El Reno M. & E. Co., Flour, El Reno, Okla.  
 Ely & Williams, Iron & Steel, New York City.  
 Emerson Steam Pump Co., Pumps, Alexandria, Va.  
 Emmelmann Bros, Mfg. Co., Blow Torch, Indian-  
 apolis, Ind.  
 G. C. Engel, Meats, New York City.  
 Engleberg & Waidman Co., Box Mfrs., New York  
 The Ensign Lumber Co., Lumber, Jacksonville, Fla.  
 Epping-Carpenter Co., Water Cylinders, Pittsburgh.  
 Equitable Supply Co., Machinery, N. Y. C.  
 Erlanger Bros, Wearing Apparel, New York City.  
 Escola Supply Co., New York City.  
 Esterbrook Steel Pen Co., Pens, Stationery, N. Y. C.  
 Eureka Fire Hose Co., Cotton Hose, Pipe, N. Y. C.  
 Eureka Rubbing Stone Co., Chicago, Ill.  
 Eureka Vibrator Co., New York City.  
 Evans & Howard Fire Brick Co., Fire Clay & Brick  
 and Pipe, St. Louis, Mo.  
 Richard Evans, New York City.  
 S. F. Everett, Cleveland, Ohio.  
 Everett Mfg. Co., Dump Wagons, Newark, N. J.  
 Excello Arc Lamp Co., Arc Lamps, New York City.  
 Excelsior Equipment Co., Pneumatic Equipment,  
 Coil Chain, Dippers, Pittsburgh, Pa.  
 Excelsior Tool & Machine Co., Iron and Steel, E. St.  
 Louis, Mo.  
 Excelsior Varnish Co., Paints and Varnish, N. Y. C.  
 Export Electric Supply Co., Electrical Sup. N.Y.C.  
 Export Lumber Co., Lumber, New York City.

## F

Eberhard Faber Co., Pencils, Brooklyn, N. Y.  
 J. Faessler Manufacturing Co., Moberly, Mo.  
 N. K. Fairbanks, Gold Dust Washing Pow., Chicago.  
 N. K. Fairbanks Co., Gold Dust Washing Pow., N. Y.  
 The Fairbanks Co., Steel Shafting, Couplings, etc.,  
 New York City.  
 Fairbanks, Morse & Co., Hand and Push Cars, In-  
 spection Motor Cars, Chicago, Ill.  
 Fairbanks Scales Co., Hardware, New York City.  
 The Fairest Steel Co., Springs, Bridgeport, Conn.  
 Fairmont Coal Co., Coal, New York City.  
 Joseph Faltermayer, Washers, Wrought Cut, Phila-  
 delphia, Pa.  
 James H. Fanchoner, Dairy Supplies, N. Y. C.  
 A. D. Farmer & Son Type Founding Co., Type, N. Y.  
 J. A. Fay & Egan Co., Boring Machs., Cincinnati, O.  
 J. A. Fay & Egan Co., Woodworking Machy. N.Y.C.  
 Fred Fear & Co., Fish & Oysters, New York City.  
 Fearless Dishwasher Co., Fearless Dishwashers, N. Y.

- Federal Clay Products, Pittsburgh, Pa.  
 Federal Co., Hospital Sinks and Plumbing, Chicago.  
 M. Feigel & Bro., Chemicals, Paints and Oils, New York City.  
 Felt & Tarrant Mfg. Co., Comptometers, Chicago.  
 August Ferger & Co., Feed, Cincinnati, Ohio.  
 F. Ferguson & Son, Transfer Agents, N. Y. C.  
 Joseph V. Ferguson, Straw, New Orleans, La.  
 F. A. Ferris & Co., Meat, New York City.  
 The Fibre Conduit Co., Socket Joints, Orangeburg, N. Y.  
 W. R. Ficke Co., Stationery, New York City.  
 Fidaque & Co., Shoes, Brooklyn, N. Y.  
 Marshall Field & Co., Dry Goods, Chicago, Ill.  
 E. Fincken & Co., Coal, New York City.  
 Findlay, Dicks & Co., Drug Sup., New Orleans, La.  
 Fireproof Furniture & Construction Co., N. Y. C.  
 Fischer Bros., Show Cases, New York City.  
 J. & C. Fischer, Piano Manufacturers, New York City.  
 Fiske Bros., Refrigerating Co., New York City.  
 Fiske Bros. Refining Co., Oil and Lubricating Grease, New York City.  
 Flaccus E. C. & Co., Spices, Wheeling, West Va  
 The Flash Chemical Co., Cleanser, Boston, Mass.  
 Flecke Bros. & Co., Bends, Philadelphia, Pa.  
 D. B. Fleming & Co., Leather Supplies, New York.  
 George C. Flint Co., Mattresses, New York City.  
 Flint & Chester, Ry. and Cont. Supplies, N. Y. C.  
 Florence Brush Mfg. Co., Brushes, New York City.  
 Florsheim Shoe Co., Shoes, Chicago, Ill.  
 J. H. Flynn, Jr., New York City.  
 Focht Iron Works, Iron and Steel, Hoboken, N. J.  
 George Fochten Sons, Hoboken, N. J.  
 R. R. Fogel & Co., Novelties and Jewelry, N. Y. C.  
 Follmer Clogg Co., Umbrellas, New York City.  
 H. & D. Folsom Arms Co., Clay Pigeons, New York.  
 Foote Burt Co., Machinery Designs, Cleveland, O.  
 The Forbes Co., Sterilizers, Philadelphia, Pa.  
 John Forbes, Paper, New York City.  
 F. Codman Ford, New Orleans, La.  
 Forester Mfg. Co., Toothpicks, Dixfield, Me.  
 Fort Pitt Forge Co., Pittsburgh, Pa.  
 Fort Pitt Malleable Iron Co., Drill Sill Caps, Pittsburgh, Pa.  
 Foster Engineering Co., Valves, Newark, N. J.  
 Foster Pump Co., Pumps, New York City.  
 Foster Valve Co., Valves, Newark, N. J.  
 Julius Fowl, Hampers, New York City.  
 Fox Bros. & Co., Hand Cars, etc., New York City.  
 M. Ewing Fox Co., Muralite, New York City.  
 Fox River Butter Co., Butter, New York City.  
 Franklin Manufacturing Co., Franklin, Pa.  
 Julien P. Friez, Ram Gauges, Ink, Forms, Baltimore.  
 Frog Switch & Signal Co., Ry. Equip., Carlisle, Pa.  
 Franco-American Food Co., Canned Goods, Jersey City, N. J.  
 Henry Frank, Leather, New York City.  
 Henry Frank, Jr., General Supplies, New York City.  
 L. Frank & Co., Fruits & Vegetables, New Orleans.  
 Frankel Display Fixture Co., New York City.  
 Franklin McVeagh & Co., Chicago, Ill.  
 Franklin Portable Crane & Hoist Co., Portable Cranes, Franklin, Pa.  
 P. A. Frasse & Co., Machinists' Supplies, N. Y. C.  
 H. J. Freeman, Mattresses, New York City.  
 Freidman-Shelby Shoe Co., Shoes, St. Louis, Mo.  
 Frevert Machinery Co., Blocks, New York City.  
 Froment & Co., Pipe Line and Dredges, N. Y. C.  
 Fuchs & Lang Manufacturing Co., New York City.  
 Fuerst Bros. & Co., Carbolic Acids, New York City.  
 Fuller Bros. & Co., General Supplies, New York City  
 Fullerton Case Co., New York City.  
 Fulton Bag & Cotton Mills, New York City.  
 Fulton & Walker Co., Philadelphia, Pa.
- G
- John S. Gage, Dry Goods, New York City.  
 Gaine Bros., Book Binders, New York City.  
 Galena-Signal Oil Co., Car, Eng. & Valve Oil, N. Y.  
 The Gamewell Fire-Alarm Telegraph Co., Automatic Fire Alarms, New York City.  
 Gardner Governor Co., Cylinders and Hardware, Quincy, Ill.  
 Garlock Packing Co., New York City.  
 Thomas Garner & Co., Stationery, New York City.  
 John Garrie & Sons, Inc., Produce Merchant, N.Y.C.  
 The Garvin Machine Co., Drill Presses, N. Y. C.  
 Gas Engine & Power Co., Launch, New York City.  
 Charles L. Seabury & Co., New York City.  
 Gates City Filter Co., New York City.  
 R. H. Geldart, Wrenches, Reamers, Oakum, N. Y. C.  
 General Chemical Co., Sulphate of Alumina, N. Y. C.  
 Gen. Elec. Co., Switch & Gage Boards & Accessories, Schenectady, N. Y.  
 The General Fireproofing Co., Bookcase Sections, Washington, D. C.  
 General Fireproofing Co., Draughting Tables and Filing Cases, Youngstown, Ohio.  
 General Railway Signal Co., Signal Supplies, N.Y.C.  
 Genessee Pure Food Co., Le Roy, N. Y.  
 Gerry & Murray, Office Sup., Printers, N. Y. C.  
 F. W. Gesswein, Tools, New York City.  
 Getz Bros., San Francisco, Cal.  
 Gibson Bros., Tabular Code, Washington, D. C.  
 Robert Gilchrist & Co., Ferromanganese, Elizabethport, N. J.  
 E. B. Gill Mfg. Co., Hangers, Chicago, Ill.  
 William D. Gill & Co., Lumber, Baltimore, Md.  
 Gillette Sales Co., Razors, Boston, Mass.  
 D. L. Gillispie Co., Lumber, Pittsburgh, Pa.  
 I. Gilman & Co., Manila Paper, New York City.  
 Gimbel Bros., Dry Goods, New York City.  
 Ellis A. Gimbel, Beds, Philadelphia, Pa.  
 Ginsberg & Dubersteins, Hats, New York City.  
 Glauber Brass Mfg. Co., Clocks, Cleveland, Ohio.  
 Glacier Metal Co., Anti-friction Metal, Richmond, Va.  
 V. Glad & Sons, Ranges, Philadelphia, Pa.

William Gleichman, Flour, Brooklyn, N. Y.  
 Globe-Wernicke Co., Office Supplies, N. Y. C.  
 Glogua & Co., Alcohol Stoves, Chicago, Ill.  
 G. A. Gobel, Wearing Apparel, Chicago, Ill.  
 J. Gockner, New York City.  
 Frank Godley Co., Extracts and Flavoring, N. Y. C.  
 Goetz Optical Co., New York City.  
 Gold Medal Camp Furniture Co., Cots, Racine  
 Junction, Wis.  
 C. H. & E. S. Goldberg, Woodware, N. Y. C.  
 Golden-Anderson Valve Specialty Co., Safety Valves,  
 Pittsburgh, Pa.  
 Goldschmidt Thermit Co., Thermit Welds, N. Y. C.  
 Goldschmidt & Co., Dresses, New York City.  
 L. & M. Goldsticker, Bottlers' Supplies, N. Y. C.  
 Goodell Pratt Co., Tools, Greenfield, Mass.  
 E. H. Goodman, New York City.  
 H. Goodman Co., Eggs, New Orleans, La.  
 The B. F. Goodrich Co., Belting, Akron, Ohio.  
 B. F. Goodrich Co., Rubber Goods, N. Y. C.  
 Goodwin Car Co., Cars, New York City.  
 George C. Goodwin, New York City.  
 Nelson Goodyear, Buoys, Lanterns, New York City.  
 Goodyear Rubber Co., Rubber Coats, N. Y. C.  
 H. R. Gordon Co., Sugar, New York City.  
 W. A. Gorden Co., Fish, New Orleans, La.  
 Gorham Mfg. Co., Sterling Silverware, Providence.  
 Goshen Mfg. Co., Oleomargarine, Providence, R. I.  
 H. T. Gottam & Co., New Orleans, La.  
 Gotz Bros., San Francisco, Cal.  
 Gould Coupler Co., New York City.  
 W. R. Grace Co., Lumber, New York City.  
 Graft Morsbach & Co., Harness, New York City.  
 A. D. Granger Co., Power Plant Machinery, New  
 York City.  
 Grand Rapids Show Case Co., New York City.  
 Grand Rapids Refrigerator Co., Refrigerators, N. Y.  
 The Granite Railway & Signal Co., Pittsburgh, Pa.  
 N. Z. Graves Co., Paints, New York City.  
 N. Z. Graves, Co., Paints and Varnish, Phila., Pa.  
 Peter Gray & Sons, Cambridge, Conn.  
 William S. Gray & Co., Chemicals, New York City.  
 Great Eastern Clay Co., New York City.  
 Great Western Cereal Co., Chicago, Ill.  
 Greenlee Bros. & Co., Wood Working Machinery  
 and Tools, Rockford, Ill.  
 A. W. Greely, Shoes, Haverhill, Mass.  
 Henry J. Green, Scientific Instruments, N. Y. C.  
 W. Green & Co., Plain Rivet Lathe, New York City.  
 Greensboro Table Co., Tables, Greensboro, N. C.  
 Greenfield's Candy Co., New York City.  
 Gress, Owens & Co., Drugs, New York City.  
 John Grieg, Chemicals, New York City.  
 Griffin Manufacturing Co., Polish, New York City.  
 Griffing Wheel Co., Cast Iron Wheels, Wash., D. C.  
 The Griscom-Spencer Co., Wrought Iron Black  
 Pipe, New York City.  
 The Groton-Pew Fish Co., Gloucester, Mass.  
 Gude Bros. & Kieffer, Creamery, New York City.  
 Guggenheim Food Co., San Francisco, Cal.

Gulfport Creosoting Co., Piles, Guard Rails, Creosoted  
 Ties, Gulfport, Miss.  
 A. Gunnison & Co., Creosote Oil, New York City.  
 W. & L. E. Gurley, Repair Parts for Current Meters,  
 Bi-Sulphate Mercury Batteries, Troy, N. Y.  
 C. Gutman & Co., Suits, New York City.  
 The Gutta Percha & Rubber Mfg. Co., Hose, N. Y. C.

## H

Haas Bros., Sweetmeats, San Francisco, Cal.  
 C. H. Haddley, Groceries, Champaign, Ill.  
 William W. Haff, Coal, New York City.  
 A. L. Hagan Co., Laundry Plant, Ancon Hospital,  
 Philadelphia, Pa.  
 Haggerty Bros., Glassware, New York City.  
 Haines, Jones & Cattlebury Co., Philadelphia, Pa.  
 Alva Hall Co., Umbrellas, New York City.  
 Frank A. Hall, Pillows, New York City.  
 Hall Switch & Signal Co., New York City.  
 Hall & Brown Wood Working Machine Co., Mould-  
 ing Machines, St. Louis, Mo.  
 Hall & Ruckel, Tooth Wash, New York City.  
 George C. Hale, Fire Hose Truck, Kansas City, Mo.  
 Hale Co., Furniture, New York City.  
 Hale Desk Co., New York City.  
 Hale & Kilburn Mfg. Co., Wrought Metal Wk., N. Y.  
 Hallidie Machinery Co., Drill Presses and Lathes,  
 Seattle, Wash.  
 Felix Hamburger, Computing Machines, N. Y. C.  
 The Hamilton Co., Portable Houses, N. Y. C.  
 Hamilton Brown Co., Shoes, St. Louis, Mo.  
 The Hamilton-Low Co., Dish Washing Mach., N. Y.  
 Hamilton Rubber Mfg. Co., Trenton, N. J.  
 Hamilton Co., Railway Supplies, New York City.  
 Hammacher, Schlemmer & Co., Hardware, N. Y. C.  
 Hammer Bros. White Lead Co., E. St. Louis, Mo.  
 Hammond Typewriter Co., New York City.  
 Hanan & Son, Shoes, Brooklyn, N. Y.  
 The Hancock Inspirator Co., New York City.  
 Handlan-Buck Mfg. Co., Elbows, Belting, Powder,  
 Pipe Cutter, etc., St. Louis, Mo.  
 Joshua Handy Iron Works, San Francisco, Cal.  
 Handy Rule & Level Co., New York City.  
 P. Hano & Co., Books, New York City.  
 William S. Hansall & Sons, Philadelphia, Pa.  
 Ferdinand Hansen, Green Cups, New York City.  
 Harbeson Textile Co., New York City.  
 Harbison-Walker Refractories Co., Fire Bricks,  
 Pittsburgh, Pa.  
 Harland & Hollingsworth Corporation, Boilers,  
 Wilmington, Del.  
 P. J. Harney Shoe Co., Shoes, New York City.  
 Harney Shoe Co., Footwear, Lynn, Mass.  
 The Harral Soap Co., Laundry Soap, N. Y. C.  
 Harrick Manufacturing Co., Forges, N. Y. C.  
 Harries, Jones & Cadbury Co., Plumbing Supplies,  
 Philadelphia, Pa.  
 Jacob Harris, Clothing, Rubber Goods, N. Y. C.

- F. Harris, Chicago, Ill.  
 William B. Harris Co., Coffee, N. Y. City.  
 Harris Suspender Co., New York City.  
 Harrison Bros. & Co., Manf. Paints & Varnishes, New York City.  
 Harrison Supply Co., Lighting Material, N. Y. C.  
 Harry Bros. Mfg. Co., New Orleans, La.  
 Hart, Schafner & Marx, Wearing Apparel, N. Y. C.  
 Louis Hartig, Paddocks, Piles, Washington, D. C.  
 Hartford Machine Screw Co., Hartford, Conn.  
 M. Hartley Co., New York City.  
 Hasbey & Mattson, New York City.  
 L. C. Hasinger Co., Sledge Handles, Indiana, Pa.  
 E. C. Hausberg, New York City.  
 Havana Tobacco Co., New York City.  
 Haverside, Withers & Davis Co., Gear Wheels, San Francisco, Cal.  
 Hawes, Vol. Gal., Men's Hats, New York City.  
 Hawley Box Co., New York City.  
 The Hayden & Derby Mfg. Co., Injectors, N. Y. C.  
 Hayden-Corbett Chain Co., New York City.  
 R. S. Hayes, Switches, Carlisle, Pa.  
 Hayes Track Appliance Co., New York City.  
 The Haywood Co., Dredges, New York City.  
 E. C. Hazard & Co., Groceries, New York City.  
 Hazard Mfg. Co., Wire Rope, Wilkesbarre, Pa.  
 Headley & Farmer, Leather Goods, New York City.  
 D. S. Heath & Co., Books, Boston, Mass.  
 Heath & Milligan Mfg. Co., Paint, Chicago, Ill.  
 Hecker, Jones & Jewell Co., Flour, New York City.  
 Heeler Bros. Co., Newark, N. J.  
 Hegeman & Co., Druggists, New York City.  
 Heinz Pickle Co., Spices, Pittsburgh, Pa.  
 Heller & Brightly, Engineering and other Instruments, Philadelphia, Pa.  
 The L. Helmuth Co., New York City.  
 Helvetia Condensed Milk Co., New York City.  
 Hemmenway & Son, Flags, New York City.  
 A. J. Hemphill, New York City.  
 Peter Henderson & Co., Seeds, New York City.  
 Hendricks & Class, Hardware, New York City.  
 E. L. Henter, San Francisco, Cal.  
 Joseph M. Herman, Shoes, Boston, Mass.  
 Herman, Bahr & Co., New York City.  
 Herpicide Co., Hair Tonic, Detroit, Mich.  
 Herring, Hall, Marvin Safe Co., New York City.  
 Herron Pump & Foundry Co., Valves & Hydrants, Chattanooga, Tenn.  
 Hersey Mfg. Co., Water Meter, S. Boston, Mass.  
 E. L. D. Hester Co., Refrigerators, New York City.  
 G. B. Hewlett, Drawing Materials, New York City.  
 Hewitt Rubber Co., Air Brake Hose, Buffalo, N. Y.  
 Heywood Bros. & Wakefield, Furniture, N. Y. C.  
 Hibbard, Spencer, Bartlette & Co., White Zinc, Tools and Supplies, Chicago, Ill.  
 W. O. Hickok Mfg. Co., Paper Ruling Machines, Harrisburgh, Pa.  
 Hicks-Hampton Lumber Co., Lum., San Francisco.  
 W. A. Higgins Packing Co., New York City.  
 Higgins & Seiter, Chinaware, New York City.  
 Hildreth & Segelken, Honey, New York City.  
 The Hill Clutch Co., Clutch Rope Sheaves, Cleveland, Ohio.  
 Alfred Hiller Co., Ltd., Acid, Oil, beeswax, New Orleans, La.  
 Hillery, Kelly Co., Eggs, New Orleans, La.  
 Hills Bros., Fruit Importers, New York City.  
 Hillis & Jones Co., Washer-cutting Machine, Wilmington, Del.  
 Thomas H. Hindle, Typewriter Supplies, N. Y. C.  
 Hindley Mfg. Co., Steel, Valley Falls, R. I.  
 Edward Hines Lumber Co., White Pine Lumber, Chicago, Ill.  
 Hinton-White Co., New Orleans, La.  
 Leon Hirsh & Son, Sal Soda, Chalk, Resin, Chloride of Lime, New York City.  
 Hirsch Lumber Co., Lumber, New York City.  
 Henry A. Hitner's Sons Co., Washers, Phila., Pa.  
 Clinton E. Hobbs, Chain Hoist, Boston, Mass.  
 Hodgman Rubber Co., New York City.  
 T. P. Hoffman & Co., Packing Excelsior, N. Y. C.  
 R. C. Hoffman & Co., Iron & Steel Goods, Baltimore.  
 Hoffman-Corr, Twine, New York City.  
 The Hoge & McDowell Co., Oats, Washington, D. C.  
 Hohlfeld Mfg. Co., Hammocks, Philadelphia, Pa.  
 Hohman & Maurer Mfg. Co., Thermometers, Rochester, N. Y.  
 J. Hohn & Sons, Commission Merchant, N. Y. C.  
 James Hohnham & Co., Wearing Apparel, N. Y. C.  
 Holt & Co., Flour, New York City.  
 Holton & Adams, Brushes, New York City.  
 The Holbrook Mfg. Co., Soap, Jersey City, N. J.  
 Holbrook Bros., Window Glass, New York City.  
 Holcomb Steel Co., Steel, Syracuse, N. Y.  
 Holloplane Co., Electrical Supplies, New York City.  
 Holstead & Co., Commission Merchant, N. Y. C.  
 Holzapfel's Amer. Composition Co., New York City.  
 Home Rubber Co., Rubber Hose, etc., Trenton, N. J.  
 Hooper & Jennings, Groceries, San Francisco, Cal.  
 Hoopes & Townsend Co., Nuts, Philadelphia, Pa.  
 Hopkins & Co., Wire Goods, New York City.  
 Herbert J. Horan, Flour, Philadelphia, Pa.  
 W. O. Horn & Bros., New York City.  
 Horsburgh & Scott Co., Gear Wheels, Cleveland, O.  
 Horton's Ice Cream, New York City.  
 Hospital Supply Co., Hospital Equipment, N. Y. C.  
 M. M. Hough, New York City.  
 Albert Houtman, Dry Goods, New York City.  
 Howard & Morse, Wire Goods, Brooklyn, N. Y.  
 Howe Comb Co., New York City.  
 Howe Scale Co., New York City.  
 B. H. Howell, Son & Co., Sugar, New York City.  
 Edwin C. Howell, Maps, Washington D. C.  
 Hoyt & Co., Drugs, Tooth Wash, Lowell, Mass.  
 Hubbard Portable Oven Co., Ovens, New York City.  
 Hubbard & Co., Shovels, Chisels, Picks, etc., Pittsburgh, Pa.  
 T. C. Hublein, Wholesale Liquor Dealer, N. Y. C.  
 R. Hudnut, Drugs and Perfume, New York City.  
 Hudson Oil & Supply Co., New York City.

Hulse Bros. & Daniels Co., Umbrellas, New York C.  
 R. A. Humphrey's Sons, Philadelphia, Pa.  
 U. T. Hungerford Brass & Copper Co., Chicago, Ill.  
 U. T. Hungerford Brass & Copper Co., New York C.  
 William Hunrath, Hardware, New York City.  
 Hunt Constn. Co., Coal Handling Machinery, N. Y.  
 Samuel E. Hunter, Produce, New York City.  
 S. E. Hunter, Popcorn, New York City.  
 Hunter & Trimm, Fish, New York City.  
 Hunter Milling Co., Wellington, Kans.  
 Huntoon Spring Water Co., New York City.  
 E. D. Hurlburt, Jr., Stationery, New York City.  
 C. C. Hussey, Copper, Pittsburgh, Pa.  
 Hutchinson Bros., Ranges, Baltimore, Md.  
 Hutchinson-Pierce Co., Wearing Apparel, N. Y. C.  
 Huyler Co., Candy, New York City.  
 Charles Hvass & Co., Brooms, New York City.  
 J. H. Hyde, Piles, Jacksonville, Fla.  
 Hyde Windlass Co., Steam Windlass, Bath, Maine.  
 Hydrex Felt & Engineering Co., Hydrex Felt, N.Y.C.

## I

Ice & Cold Machinery Co., Refrigerating Machines,  
 St. Louis, Mo.  
 A. L. Ide & Son, Engines for Dredges, Springfield, Ill.  
 John Illingsworth Steel Co., New York City.  
 Illinois Electric Co., Chicago, Ill.  
 Illinois Malleable Iron Co., Chicago, Ill.  
 Independent Baking Powder Co., Jersey City, N. J.  
 Independent Electric Supply Co., New York City.  
 Independent Pneumatic Tool Co., Chicago, Ill.  
 Independent Pneumatic Tube Co., Riveting Ham-  
 mers, Chicago, Ill.  
 Independent Refiners Sales Co., Lard Oil, N. Y. C.  
 Independent Salt Co., Brooklyn, N. Y.  
 Indiana Mfg. Co., Refrigerators, Peru, Ind.  
 Industrial Works, Loco. Cranes, etc., Bay City, Mich.  
 Horace Ingersoll Co., New York City.  
 Ingersoll-Rand Co., Pneumatic Drills, N. Y. C.  
 R. H. Ingersoll, Watches, New York City.  
 F. F. Ingram, Druggists, Detroit, Mich.  
 Inland Type Foundry, St. Louis, Mo.  
 Interborough Supply Co., New York City.  
 Interlaken Mills, Paper, Providence, R. I.  
 Inter-Ocean Steel Co., Tires, Chicago Heights, Ill.  
 International Elec. & Engrg. Co., New York City.  
 Interstate Electric Co., New Orleans, La.  
 International Electric Protection Co., Automatic  
 Fire Alarms, New York City.  
 International Engineering Works, Boston, Mass.  
 International Filter Co., Paper, Chicago, Ill.  
 International Silver Co., New York City.  
 International Steam Pump Co., Pumps, N. Y. C.  
 Inter Seal & Lock Co., Hastings, Mich.  
 The Interstate Iron & Steel Co., Refined Iron,  
 Chicago, Ill.  
 Interwoven Stocking Co., New Brunswick, N. J.  
 W. R. Irby Co., Tobacco, New Orleans, La.

W. F. Irish Electric Co., New York City.  
 Iroquois China Co., Syracuse, N. Y.  
 Iron City Tool Works, Ltd., Pittsburgh, Pa.  
 Irving Pitt Mfg. Co., Kansas City, Mo.  
 I. Isaac & Co., Ties, New York City.  
 Adolph Issacson & Son, Plumbers, New York City.

## J

Jaburg Bros., Bakers' Supplies, New York City.  
 Jackson & Sharpe Plant of the American Car Foundry Co., Wilmington, Del.  
 Jackson Manufacturing Co., New York City.  
 Jacob Candy Co., New Orleans, La.  
 Henry B. Jacobs, Shoes, New York City.  
 Jacques Baszanger & Co., Carbons, New York City.  
 Dr. Jaegers Sanitary Woolen Systems Co., Wear-  
 ing Apparel, New York City.  
 Jaenecke Printing Ink Co., New York City.  
 James Supply, Soldering Pipe, Chattanooga, Tenn.  
 Janesville Iron Works, Compressed Air Equipment,  
 Janesville, Wis.  
 Walter Janvier, Soaps, New York City.  
 Jarecki Manufacturing Co., Pipe, Erie, Pa.  
 The Jeffery Mfg. Co., Belt Conveyors, Columbus, O.  
 Jenkins Bros., Valves Packing, New York City.  
 Jenkins Coal Company, New York City.  
 Jocknsch, Davidson & Co., Galveston, Tex.  
 H. W. Johns-Manville Co., Elec. Asbestos, N.Y.C.  
 Isaac G. Johnson & Co., Inc., Steel Castings, Spuy-  
 ten Duyvil, N. Y.  
 Johnson Bros., Coal, Washington, D. C.  
 George R. Johnson, Dipper Handles, Baltimore, Md.  
 Johnson Wrecking Frog Co., Cleveland Ohio.  
 Mr. J. K. Joice, Lumber, Chicago, Ill.  
 Jones & Lamson Machine Co., Springfield, Vt.  
 Jones & Laughlin, Steel Co., Pittsburgh, Pa.  
 Henry E. Jones, Paper, New York City.  
 Jones Superior Machine Co., Saw Blades, Chicago.  
 O. F. Jordan Co., Earth Spreaders, Chicago, Ill.  
 John P. Jube & Co., Carriage Hardware, N. Y. C.  
 Juda Bros., Dry Goods, New York City.

## K

Kaheival Co., Cigarettes, New York City.  
 David Kahnweiler Sons, Life Saving Appliances,  
 New York City.  
 David Kahnuelers Sons, New York City.  
 Kalamazoo Corset Co., Kalamazoo, Mich.  
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.  
 John P. Kane Co., Masons' Materials, N. Y. C.  
 L. Katzenstein & Co., Packing, New York City.  
 Kaufman Flonacher & Co., Suits, New Orleans, La.  
 The Kay & Ess Co., Ochre, Dayton, Ohio.  
 The Kay-Scheerer Co., Sterilizing and Disinfectant  
 Apparatus, New York City.  
 Robert A. Keasby & Co., Asbestos, New York City.

- Keasby & Mattison Co., Cement, Asbestos and Felt Goods, Ambler, Pa. and New York City.  
 E. F. Keating Co., Pipe, New York City.  
 E. Keeler Co., Boilers, Williamsport, Pa.  
 Charles A. Keene, Jewelry, New York City.  
 Keep Mfg. Co., Wearing Apparel, New York City.  
 Keiffer Bros. Shoe Co., New Orleans, La.  
 Kellner Bros., Furniture, New York City.  
 The M. W. Kellogg Co., Pipe & Chimneys, N. Y. C.  
 T. P. Kelly & Co., Foundry Supplies, N. Y. C.  
 Martin Kelly, Commission Merchant, New York.  
 Kelly-Springfield Motor Truck Co., Motor Busses, Springfield, Ohio.  
 Kelly-Springfield Road Roller Co., Springfield, O.  
 Kemicott Co., Water Weigher, Chicago, Ill.  
 Kemp, Day & Co., Groceries, New York City.  
 Kemp Machinery Co., Baltimore, Md.  
 J. B. Kendall & Co., Iron & Steel, Wash., D. C.  
 The Kendall Coal Mining Co., Cleveland, Ohio.  
 The Kennedy Valve Mfg. Co., Elmyra, N. Y.  
 Robert A. Kensbury Co., Handhole Caskets, N. Y. C.  
 Kensington Engine Works, Ltd., Philadelphia, Pa.  
 P. Kent Co., Burlap Bags, New York City.  
 Kentucky Wagon Mfg. Co., Louisville, Ky.  
 Kenworthy Engrg. Co., Furnaces, Waterbury, Conn.  
 C. Kenyon Co., Raincoats, Brooklyn, N. Y.  
 Thomas G. Keogh, Vacuum Gauges, N. Y. C.  
 Kerite Insulated Wire & Cable Co., Wire Cables, N. Y.  
 J. R. Keiser, Ties, New York City.  
 Keystone Blue Paper Co., Philadelphia, Pa.  
 Keystone Driller Co., Beaver Falls, Pa.  
 Keystone Lubricating Co., Philadelphia, Pa.  
 Keystone National Powder Co., Powder, N. Y. C.  
 King Keystone Oil Co., San Francisco, Cal.  
 The Keystone Type Foundry Co., Philadelphia, Pa.  
 Keystone Watch Case Co., Philadelphia, Pa.  
 Kilbourne & Jacobs Mfg. Co., Hand Carts, Columbus, Ohio.  
 Kilbourne & Jacobs, Tires, Rubber, N. Y. C.  
 Kilby Frog & Switch Co., Birmingham, Ala.  
 C. P. Kimball & Co., Half-top Cabriolets, Chicago.  
 Kingan Provision Co., New York City.  
 Kipp Wagon Works, New York City.  
 H. B. Kirkham & Son, Sawdust, New York City.  
 Kittoe Boiler & Tank Co., Canton, Ohio.  
 Henry Klein, Chemists, New York City.  
 Kleinert Rubber Co., New York City.  
 Knickerbocker Ice Co., New York City.  
 Knickerbocker Mills Co., Commissary Sup. N. Y. C.  
 C. C. Knight Co., Steel Plates, Philadelphia, Pa.  
 Knothe Bros., Leather Goods, New York City.  
 Knox & Bro., Hammers, Wrenches & Punches, N. Y.  
 Koelsch Bros., Butchers, New York City.  
 Kohlman Bros. & Sugaman, Fruits, New Orleans, La.  
 H. Kohnstann, Laundry Supplies, New York City.  
 Herman Kohn, Wearing Apparel, New York City.  
 Kohn, Weil & Co., Hats, New Orleans, La.  
 Kosy Slipper Co., Lynn, Mass.  
 A. S. Kottwitz Co., Eggs, New Orleans, La.  
 William Kraft, New York City.  
 Krag Imperial Cabinet Co., Washington, D. C.  
 Charles A. Kreig, Shoe Laces, New York City.  
 Krenzel Manufacturing Co., Stamps, N. Y. C.  
 Kuffon & Demerest, Hardware, New York City.  
 Kurtz & Co., Commissary Supplies, Ohio, Ill.
- L
- Laclede-Christy Clay Products Co., Blocks, Tiling, St. Louis, Mo.  
 E. R. Ladew, Leather & Hides, New York City.  
 The Laidlaw-Dunn-Gordon Co., Air Compressors and Receivers, New York City.  
 Laidlaw-Dunn-Gordon Co., Fly Wheels, Compressor, Cincinnati, Ohio.  
 Lake Bros., Umbrellas, New Orleans, La.  
 Lambert Hoisting Engine Co., Newark, N. J.  
 Lambert Pharmacy Co., Philadelphia, Pa.  
 Lambert's Point Tow Boat Co., Norfolk, Va.  
 Lamont & Corliss Co., Cocoa and Chocolates, New York City.  
 Lamsen Com. Stores, Commissary Supplies, New York City.  
 Lamson Cash Carrier Pneumatic Tube Co., N. Y. C.  
 Lancaster Forge & Blower Co., New York City.  
 Henry W. Landen, Chemicals, Newark, N. J.  
 Landers, Frary & Clark, Hardware, New York City.  
 Landis Sewing Machine Co., New York City.  
 Landis Tool Co., Waynesboro, Pa.  
 W. T. Lane & Bros., Hardware, Poughkeepsie, N. Y.  
 J. H. Lane & Co., Commission Merchants, N. Y. C.  
 Lane & De Groot Co., Launches, Life Rafts, N. Y. C.  
 L. Langsdorf & Co., Stationery, Minors, N. Y. C.  
 Lanman & Kemp, Druggists, New York City.  
 W. K. Lanman, Machine Bolts & Nuts, Columbus, O.  
 Julius Lansburgh Furniture & Car. Co., Wash. D. C.  
 Lansing Wheelbarrow Co., Wheelbarrows, N. Y. C.  
 The Lanston Monotype Mach. Co., Philadelphia, Pa.  
 J. K. Larkin & Co., Washers, Nuts, etc., N. Y. C.  
 E. B. Latham & Co., New York City.  
 W. J. Lathan & Sons, Agents Produce Exchange Annex, New York City.  
 Laughead & Co., Menu Cards, Philadelphia, Pa.  
 Lauto New Bedford Copper Co., New Bedford, Mass.  
 Laux & Appel, Fruit & Vegetables, New Orleans, La.  
 O. C. Lawrence & Co., Stationers, New York City.  
 H. T. Lawler & Son, Grain, New Orleans, La.  
 Lawyers Co-operative Publishing Co., Rochester.  
 S. C. Laylor Chain Co., Chicago, Ill.  
 Leadite Co., Leadite, Philadelphia, Pa.  
 Lead Products Co., St. Louis, Mo.  
 Lebanon Chain Works & Iron Co., Lebanon, Pa.  
 W. H. Lear, Lumber, Philadelphia, Pa.  
 Lebdejeff & Co., New York City.  
 The Leeds & Northup Co., Galvanometers, Phila., Pa.  
 William A. Leggett Co., New York City.  
 B. Legrade, Tobacco, New York City.  
 Lehigh-Portland Cement Co., Allentown, Pa.

Isaac Lehmann, New York City.  
 Lehn & Fink, Druggists, New York City.  
 Leibig Extract Co., New York City.  
 John P. Lein & Sons, Berths for laborers' quarters,  
 New York City.  
 Leob Bros. Leather Belting Co., New York City.  
 J. H. Leonard & Co., Brass Brushings, Unions, etc.,  
 New York City.  
 Leousi Clonney & Co., Sponges, New York City.  
 A. Leschen & Sons Rope Co., St. Louis, Mo.  
 Lestrade Bros., Dairy, New York City.  
 Leuher Engineering Co., New York City.  
 Levy Bros., Wearing Apparel, Louisville, Ky.  
 The B. Levy Co., Wholesale Druggists., Boston.  
 C. Levy's Sons, Hats, New York City.  
 Bernard Levy, Wearing Apparel, New York City.  
 Lewine Bros., Neckwear, New York City.  
 H. Lewis & Co., Ltd., New Orleans, La.  
 S. W. Lewis & Co., Fish for Export, New York City.  
 H. K. Lewis & Co., Railroad Track, New Orleans.  
 Libbey, McNeil & Libbey, Meat Packers, Chicago.  
 Liberty Oil Co., Kerosene, New Orleans, La.  
 Library Bureau, Cabinets, Washington, D. C.  
 Lidgerwood Mfg. Co., Hoisting Engineers, N. Y. C.  
 Liebers Code Co., Book Store, New York City.  
 A. S. Liebovitz & Co., New York City.  
 S. Liebovitz & Son, Clothing, New York City.  
 Lignum Chemical Works, Brooklyn, N. Y.  
 Dexter P. Lillie & Co., Waste, Chicago, Ill.  
 J. E. Linde Paper Co., New York City.  
 Lineham & Molo, Paving Brick, Dubuque, Iowa.  
 Theo. Linington, Jr., Rock Salt, New York City.  
 Link-Belt Co., Clutch Couplings, etc., Chicago, Ill.  
 W. K. Linscott, Cross Ties, Mobile, Ala.  
 J. J. Little & Ives Co., Publishers, New York City.  
 C. S. Little, Druggists, New York City.  
 Lobdell Car Wheel Co., New York City.  
 Locke Insulator Mfg. Co., Insulators, Victor, N. Y.  
 Locomotive Appliance Co., Chicago, Ill.  
 Loch Bros., Aluminum, Lamp Black, N. Y. C.  
 Logan Iron Works, Brooklyn, N. Y.  
 Long & Allstatter Co., Punches and Shears, Ham-  
 ilton, Ohio.  
 Long Bell Lumber Co., Kansas City, Mo.  
 The Longhead Co., Philadelphia, Pa.  
 Lord & Taylor, Clothing, New York City.  
 Harry A. Lord, Shovels, Allegheny, Pa.  
 Lortz-Leuscher Co., Furniture, Utica, N. Y.  
 C. T. Louis Co., New York City.  
 Louisiana Creosoting Co., Creosoted Lumber, Slidell,  
 La.  
 Louisiana Molasses Co., New Orleans, La.  
 Love Brake Shoe Co., Chicago, Ill.  
 F. H. Lovell & Co., New York City.  
 Lowe & Leveridge, New York City.  
 John Lucas & Co., Paints, Philadelphia, Pa.  
 Lucas Machine Tool Co., Forcing Presses, Cleveland.  
 The Ludlow Mfg. Co., Loco. Oilers, Ludlow, Ky.  
 Ludowici-Celadon Co., Terra Cotta Roofing Tiles,  
 Washington, D. C.

Ludowici-Celadon Co., Tile, Chicago, Ill.  
 Ludowici Roofing Tile Co., Ludowici, Ga.  
 Ludwig Baumann & Co., Furniture, New York City.  
 The Lunkenheimer Co., Engine Specialties, Cincin-  
 nati, Ohio.  
 David Lupton's Sons Co., Windows, Phila., Pa.  
 Lutchter & Moore Lumber Co., Orange, Texas.  
 R. H. Luthin, Druggists, New York City.  
 Lynch & Reed, Baltimore, Md.  
 Lynchburg Foundry Co., Iron Pipe, etc., Lynch-  
 burg, Va.  
 Lynchburg Hosiery Mills, Lynchburg, Pa.  
 I. L. Lyons & Co., Ltd., New Orleans, La.  
 I. W. Lyons & Sons, Druggists, New York City.

## M

Macbeth, Evans Glass Co., Pittsburgh, Pa.  
 Macbeth, Evans Hudson Glass Co., N. Y. C.  
 L. H. Mace & Co., Refrigerators, New York City.  
 R. H. Macy & Co., House Furnishing Goods, N. Y.  
 Macey-Wernicke Co., Furniture, New York City.  
 Charles Machine Co., Cleveland, Ohio.  
 The Macomber-Whyte-Moon Co., Wire Rope, N. Y.  
 The W. D. MacGuffin Co., Comsy. Sup., N. Y. C.  
 Walter Macleod & Co., Factory Specialties, Cincin-  
 nati, Ohio.  
 The MacMillan Co., Books, New York City.  
 James H. McCall, Pine Barren, Fla.  
 James H. McCall, Incinerators, Huntington, Tenn.  
 McClintic-Marshall Constn. Co., Steel, Pittsburgh.  
 J. J. McClusky, Paper Boxes, New York City.  
 McCord & Co., Railroad Supplies, New York City.  
 McCord & Co., Huntington, Tenn.  
 Henry J. McCoy Co., Contractors' Supplies, N. Y. C.  
 William McDonagh & Son, Nightsoil Pails, N. Y. C.  
 James A. McDonald, Lumber, New York City.  
 John W. McDonald, Glue, New York City.  
 James McKay Co., Chains, Pittsburgh, Pa.  
 McKesson & Robbins, Drugs, New York City.  
 H. McMullen, Sign Painter, New York City.  
 McNab & Harlin Mfg. Co., New York City.  
 McNeil & Higgins Co., Fruits, Chicago, Ill.  
 McNunally & McCrea, Cloth Goods, Atlanta, Ga.  
 Maendier Bros., Brushes, St. Paul, Minn.  
 M. Magee & Son, Switch Flags, New York City.  
 Ehret Magnesia Mfg. Co., Philadelphia, Pa.  
 Magnus' Metal Co., Journal Bearings, Buffalo, N. Y.  
 Magor Car Co., Flat Cars, New York City.  
 George S. Mahana, New York City.  
 Mahoney Electric Co., St. Louis, Mo.  
 O. J. Maigne Co., Printers' Rollers, New York City.  
 The Maine Elec. Co., Elec. Cranes, Portland, Me.  
 The Guy C. Major Co., Oil, Toledo, Ohio.  
 Mal & Brinker Co., New York City.  
 W. B. Malay, New York City.  
 Malt Diestase Co., New York City.  
 Maney Milling Co., Flour, Omaha, Neb.  
 Mann Edge Tool Co., Louistown, Pa.



- Manhattan Brass Co., New York City.  
 Manhattan Electric Supply Co., New York City.  
 Manhattan Electrical Supply Co., New York City.  
 Manhattan Shirt Co., New York City.  
 The Manhattan Rubber Mfg. Co., Baltimore, Md.  
 The Manhattan Rubber Co., Passaic, N. J.  
 The Manhattan Supply Co., New York City.  
 Manicure Novelty Manufacturing Co., N. Y. C.  
 Manning, Maxwell & Moore, Tools and Sup., N.Y.C.  
 Marine Oil Co., New Orleans, La.  
 Marine Mfg. & Supply Co., Anchors, N. Y. C.  
 The Marion Steam Shovel Co., Marion, Ohio.  
 Mark Mfg. Co., Wrought Iron Pipe, Chicago, Ill.  
 A. A. Marks, Artificial Limbs, New York City.  
 D. B. Martin Co., Neatsfoot Oil, Philadelphia, Pa.  
 James C. Martin, School Books, Richmond, Va.  
 William Martinez & Co., Shoes, New Orleans, La.  
 Maryland Casualty Co., Bonding Employees, Baltimore, Md.  
 Maryland Steel Co., Steel Dump Barges, Baltimore.  
 Marquardt Co., Groceries, New York City.  
 John W. Masbury & Son, Paints and Varnish, N. Y.  
 Mathers & Lamm Paper Co., Washington, D. C.  
 The Mathews Boat Co., Port Clinton, Ohio.  
 R. T. Matteson & Co., Packers, Petersburg, Va.  
 A. D. Matthews Sons, Dept. Store, Brooklyn, N. Y.  
 John Matthews, Syrup, New York City.  
 Messrs. Matlage, Fish Packers, New York City.  
 Henry Mauer & Son, Fire Brick, New York City.  
 Maxwell & Crouch Mule Co., St. Louis, Mo.  
 Mayer, Lane & Co., New York City.  
 Mead-Morrison Mfg. Co., Steel Shovels, N. Y. C.  
 Mechanical Mfg. Co., Bumping Posts, Chicago, Ill.  
 Mechling Bros. Mfg. Co., Caustic Soda, Camden, N.J.  
 Mehlbach Saddle Co., New York City.  
 Meir & Goetz, Wearing Apparel, New York City.  
 Richard W. Meirs, Philadelphia, Pa.  
 Melachrino & Co., Tobacco, New York City.  
 Mellen's Food Co., Boston, Mass.  
 J. H. Menge & Sons, New Orleans, La.  
 Mennen's Chemical Co., Toilet Articles, Newark, N.J.  
 Merchant & Evans Co., Condensor Tubes, Phila., Pa.  
 Merchants Fruit & Produce Co., New Orleans, La.  
 Merck & Co., Creoline, New York City.  
 Merrill-Stevens & Co., Barges, Jacksonville, Fla.  
 Merriman Bros., Snatch Blocks, Boston, Mass.  
 Merriman Paper Co., New York City.  
 L. J. Merriman, Piling, Switch Ties, Wilmington, N.C.  
 Merritt-Chapman Derrick & Wrecking Co., N. Y. C.  
 L. J. Merryman, Piling, Wilmington, N. C.  
 Meswick Coal Co., New York City.  
 The Meurer Bros. Co., Metals, New York City.  
 Meyer Bros. Drug Co., St. Louis, Mo.  
 Meyers Bros., Pads, New York City.  
 John Meyers, Vegetables & Fruit, New Orleans, La.  
 Henry H. Meyer, Hoisting Engines and Steam Connections, Baltimore, Md.  
 J. C. Meyer, Lowell, Mass.  
 E. B. Meyrowitz, Surgical Instruments and Hospital Supplies, New York City.  
 Mfg. Equipment & Engine Co., Boston, Mass.  
 H. Michelson & Co., Drugs, New York City.  
 Michigan Condensed Milk Co., New York City.  
 Michigan Leather Co., Detroit, Mich.  
 John Middleton, Tobacco, Philadelphia, Pa.  
 Midvale Steel Co., New York City.  
 Midvale Steel Co., Philadelphia, Pa.  
 Milam-Morgan Co., Ltd., Rice Straw, New Orleans.  
 The Alexander Milburn Co., Baltimore, Md.  
 Millburn Wagon Co., Toledo, Ohio.  
 Alexander Milburn Co., Acetylene Gas Machines and Lamps, Baltimore, Md.  
 Alfred Miller Co., Ltd., Cement, New Orleans, La.  
 L. H. Miller Safe & Iron Works, Baltimore, Md.  
 H. C. Miller Co., Stationery, New York City.  
 J. Miller Sons & Co., Clothing, Philadelphia, Pa.  
 Thomas Miller Bros., Iron Work, Philadelphia, Pa.  
 Miller Pasteurizing Machine Co., Canton, Ohio.  
 Miller, Aikenhead, Wearing Apparel, N. Y. C.  
 Miller & Graham, Lamp Black, Coal Tar, Oil and Turpentine, Baltimore, Md.  
 George W. Millar & Co., Paper, New York City.  
 O. A. Miller, Shoe Trees, Brockton, Mass.  
 E. Miller & Sons, Illuminating Oil & Lamps, N.Y.C.  
 W. L. Mills, Washington, D. C.  
 Anson Mills, Esq., Washington, D. C.  
 W. H. Miner & Co., Gravity Side Bearings, Chicago, Ill.  
 Minnesota Linseed Oil Paint Co., Minneapolis, Minn.  
 Minnesota Mining & Mfg. Co., Paper, Chicago, Ill.  
 Minus, Nugent Co., New York City.  
 Mississippi Lumber Co., Quitman, Miss.  
 Missouri Malleable Co., E. St. Louis, Mo.  
 Mitchell Clay Manufacturing Co., St. Louis, Mo.  
 Mobile Stove & Pulley Mfg. Co., Mobile, Ala.  
 Model Gas Engine Works, N. Y. C.  
 Modern Frog & Crossing Works, Chicago, Ill.  
 Mohawk Condensed Milk Co., New York City.  
 Moller & Schuman Co., Varnish, Brooklyn, N. Y.  
 Monarch Biscuit Co., New York City.  
 Monarch Engrg. & Mfg. Co., Material for Furnaces, Baltimore, Md.  
 Monarch Steel Casting Co., Detroit, Mich.  
 Monarch Suspender Co., New York City.  
 Monel Metal Manufacturing Co., New York City.  
 Montgomery, Ward & Co., Chicago, Ill.  
 Montgomery & Co., Wrenches, Drills, etc., N. Y. C.  
 Moonstone Copying Slate Co., Columbus, Ohio.  
 J. J. Moore & Co., Inc., San Francisco, Cal.  
 Moos & Co., Packers, New York City.  
 Moran Flexible Steam Joint Co., Louisville, Ky.  
 Moran Towing & Transportation Co., N. Y. C.  
 J. A. Moray, New York City.  
 The Morgan Engineering Co., Alliance, Ohio.  
 Enoch Morgan's Sons Co., Sapolio, N. Y. C.  
 Morris Machine Works, Pumps, Baldwinsville, N. Y.  
 Morris & Co., Clothing, Baltimore, Md.  
 Nelson Morris & Co., Chicago, Ill.  
 T. N. Morris & Co., Dry Goods, New York City.  
 James E. Morris, Groceries, New York City.

Philip Morris & Co., Cigarettes, New York City.  
 Morse-Boulger Destructor Co., New York City.  
 F. J. Morse Supply Co., Linen Wear, New York City.  
 Morse & Rogers, Novelties, New York City.  
 A. J. Morse & Son, Wearing Apparel, Boston, Mass.  
 Mosaic Tile Co., Zanesville, Ohio.  
 The Mosaic Tile Co., Tiling, New York City.  
 A. Moses & Sons, Inc., Sponges, New York City.  
 W. B. Moses & Sons, Furniture, Washington, D. C.  
 Mosher Water Tube Boiler Co., New York City.  
 Mosler Safe Co., Hamilton, Ohio.  
 Henry Moss & Co., Machinery, New York City.  
 Mothersill Remedy Co., Medicines, N. Y. C.  
 J. L. Mott Iron Works, Washington, D. C.  
 H. Mueller Mfg. Co., Plumbing and Gas Fixtures,  
 New York City.  
 H. K. Mulford Co., Vaccine Points, New York City.  
 Mundet & Co., Corks, Brooklyn, N. Y.  
 Municipal Engineering & Contracting Co., Chicago.  
 Henry Mungesser & Co., Grass Seed, New York City  
 John Munora Co., Commission Mer., New Orleans.  
 Munson S. S. Line, New York City.  
 Munson Supply Co., Stationery, New York City.  
 Murphysboro Paving Brick Co., Paving Brick,  
 Murphysboro, Ill.  
 George Murphy, Inc., Paper Cap Slides, etc., Photo  
 Supplies, New York City.  
 Murphy Varnish Co., Newark, N. J.  
 E. A. Murray, Chemical Mfgs., Detroit, Mich.  
 F. E. Myers & Bros., Knapsack Pumps, Ash-  
 land, Ohio.  
 Myles Salt Co., New Orleans, La.

## N

Nasen Comp. & Paint Co., New York City.  
 Nason Mfg. Co., Boilers and Radiators, N. Y. C.  
 The Nassau Smelting & Refining Works, N. Y. C.  
 Nathan Mfg. Co., Injectors and Lubricators, N. Y. C.  
 The National Ammonia Co., New York City.  
 National Aniline & Chemical Co., New York City.  
 National Biscuit Co., Chicago, Ill.  
 The Nat. Brass & Copper Tube Co., N. Y. C.  
 National Carbon Co., Cleveland, Ohio.  
 National Cash Register Co., Dayton, Ohio.  
 National Casket Co., New York City.  
 National Conduit & Cable Co., New York City.  
 National Drill & Mfg. Co., Scrapers, New York City.  
 National-Filton Brass Mfg. Co., Detroit, Mich.  
 National Fire Proofing Co., Chicago, Ill.  
 National Flour Mills, San Francisco, Cal.  
 National Electrical Supply Co., Washington, D. C.  
 National Enamel & Stamping Co., New York City.  
 National Folding Box & Paper Co., New York City.  
 National Gum & Mica Co., Glue, New York City.  
 National India Rubber Co., Providence, R. I.  
 The National Lock Washer Co., Newark, N. J.  
 National Malleable Castings Co., Cleveland, Ohio.  
 National Malleable Casting Co., New York City.

National Meter Co., New York City.  
 National Motor Co., New York City.  
 National Oil Works & Mill Supply Co., Ltd., New  
 Orleans, La.  
 National Packing Co., Chicago, Ill.  
 Nat. Railway Pub. Co., Magazines, New York City.  
 National Railway Supply Co., New York City.  
 National Roller Co., Composition for Printers' Rolls,  
 New York City.  
 National Scales Co., Buffalo, N. Y.  
 National Show Case Co., New York City.  
 The National Signal Flag Co, Warrenton, Va.  
 The National Ticket Co., Cleveland, Ohio.  
 National Vaccine & Antitoxin Establishment,  
 Washington, D. C.  
 S. E. & L. E. Naylor, Lumber Co., Gulfport, Miss.  
 Neale & Brinker Co., Hardware, New York City.  
 T. S. & J. D. Negus, Signal Flags, New York City.  
 H. L. Nelke & Co., Wearing Apparel, Phila., Pa.  
 Neostyle Co., Mimeograph Machines, N. Y. C.  
 Nelson Goodyear, Gas Apparatus, New York City.  
 The Charles Nelson Co., San Francisco, Cal.  
 The A. & J. Nelson Mfg. Co., Stove Pipe, New  
 Orleans, La.  
 Neptune Meter Co., New York City.  
 Nernst Lamp Co., New York City.  
 Nestles Food Co., New York City.  
 Nestor Gianacis Co., Cigarettes, New York City.  
 Nev-a-Hone Razor Strop Co., New York City.  
 New Castle Forge & Bolt Co., New Castle, Pa.,  
 New England Confectionery Co., Boston, Mass.  
 New England M. S. Co., Maple Syrup, Boston, Mass.  
 Newhall Chain Forge & Iron Co., New York City.  
 New Iberia Tabasco Sauce Co., New Iberia, La.  
 The Newman Clock Co., Chicago, Ill.  
 J. J. Newman Lumber Co., St. Louis, Mo.  
 New Haven Clock Co., New York City.  
 New Home Sewing Machine Co., New York City.  
 The New Freedom Wire Cloth Co., Chicago, Ill.  
 The New Freedom Wire Cloth Co., New Freedom, Pa.  
 Newmeyer & Dimond, Floating Cranes, N. Y. C.  
 New Orleans Furniture Co., New Orleans, La.  
 New Orleans Tent & Awning Co., New Orleans, La.  
 Newport News Ship & Dry Dock Co., Newport News  
 Va.  
 New Process Rawhide Co., Syracuse, N. Y.  
 Newson & Co., Books & Charts, New York City.  
 New Jersey Asbestos Co., Camden, N. J.  
 New Jersey CarSpring & Rubber Co., Jersey City, N. J.  
 New Jersey Foundry & Mach. Co., New York City.  
 New Jersey School Furniture Co., Trenton, N. J.  
 New Jersey Wire Cloth Co., Camden, N. J.  
 The New York Air Brake Co., New York City.  
 The New York Boat Oar Co., New York City.  
 N. Y. Belting & Packing Co., Ltd., New York City.  
 New York Buff Co., Polishers' Supplies, N. Y. C.  
 New York Electric Installation Co., N. Y. C.  
 New York Filing Cabinet Co., New York City.  
 New York Frame & Picture Co., New York City.  
 New York Hollow Ware Co., New York City.

- New York Ice Machinery Co., New York City.  
 New York Insulated Wire Co., New York City.  
 New York Ladder Co., New York City.  
 New York Roofing & Corrugating Co., Phila., Pa.  
 New York Sand & Facing Co., Brooklyn, N. Y.  
 N. Y. Shipbuilding Co., Camden, N. J.  
 New York Shellac Co., New York City.  
 New York Stencil Works, New York City.  
 New York White Cross Milk Co., New York City.  
 New York & Brooklyn Casket Co., New York City.  
 Niagara Machine & Tool Works, Buffalo, N. Y.  
 Nicholson File Co., Providence, R. I.  
 The Nile Tobacco Co., New York City.  
 Niles-Bement-Pond Co., Lathe, Planer, Drilling  
 Machines, New York City.  
 The Nilson Yacht Building Co., Boats, Baltimore.  
 H. A. Noble, Philadelphia, Pa.  
 Noble & Salter, Com. Mer., New Orleans, La.  
 William R. Noe Co., Hardware, New York City.  
 Nollman & Co., Butter, New York City.  
 Charles H. Nolte, Commission Merchant, N. Y. C.  
 Nonpareil Cork Works, New York City.  
 Northern Elec. Mfg. Co., Madison, Wis.  
 Northwestern Malleable Iron Co., Milwaukee, Wis.  
 The Northwestern Miller, Minneapolis, Minn.  
 A. O. Norton, Jacks, Boston, Mass.  
 Norvell-Shapleigh Hardware Co., St. Louis, Mo.  
 Norwood Tool Co., Wheeling, West Va.  
 William W. Nugent & Co., Tanks, Oils and Mach.  
 Chicago, Ill.  
 Nunglsser, Deshensen Seed Co., New York City.  
 Nye Steam Pump & Mfg. Co., Chicago, Ill.
- Oliver Typewriter Co., New York City.  
 The William J. Oliver Mfg. Co., Dump Carts,  
 Knoxville, Tenn.  
 A. Olsen, New York City.  
 Olson, Mahony Lumber Co., San Francisco, Cal.  
 O'Neill-Adams Co., Department Store, N. Y. C.  
 Orenstein-Arthur Koppel Co., Industrial and Port-  
 able Railways, New York City.  
 Orleans Metal Building Co., New Orleans, La.  
 John C. Orr & Co., Brooklyn, N. Y.  
 Orton & Steinbrenner, Locomotive Coaling Cranes,  
 Chicago, Ill.  
 W. R. Osborn, Lawyer, Passaic, N. J.  
 R. C. Osburn, Paper and Twine, Philadelphia, Pa.  
 Osburn Paper Co., Philadelphia, Pa.  
 Oshkosh Mattress Co., Oshkosh, Wis.  
 Oster Bros., Trucks, New Orleans, La.  
 Ostermoore & Co., Furniture, New York City.  
 Ostrander Fire Brick Co., New York City.  
 O'Sullivan Rubber Co., Rubber Heels, Lowell, Mass.  
 Otis Elevator Co., New York City.  
 Spencer Otis Co., Tie Plates, Chicago, Ill.  
 Ottawa Silica Co., Sand for Cement Testing, Ot-  
 tawa, Ill.  
 Ira Ottenberg, Corn Cob Pipes, New York City.  
 The Otto Gas Engine Works, Chicago, Ill.  
 Outing Shoe Co., Boston, Mass.  
 Randolph Owens, New York City.  
 C. W. Owston, Jr., Carpenters' Tools, Maplewood  
 N. J.  
 Oxford Chemical Co., Boston, Mass.  
 The Oxy-Acetylene Appliance Co., New York City.

## O

- Oakman Bros., New York City.  
 John Obenberger Co., Buckets, Milwaukee, Wis.  
 The S. Obermayer Co., Cincinnati, Ohio.  
 The Obermayer Co., Inc., Ship Tenders, N. Y. C.  
 Obermayes Co., Marine Supplies, New York City.  
 M. O'Brien & Son, Vegetable Merchants, N. Y. C.  
 P. H. O'Day & Son, Pattern Makers, N. Y. C.  
 Office & School Supply Co., New York City.  
 Ogden & Wallace, Iron and Steel, New York City.  
 J. Edward Ogden Co., Hardware, New York City.  
 Ogden Iron & Steel Mfg. Co., New York City.  
 The Ohio Brass Co., Insulators, Mansfield, Ohio.  
 Ohio Filler & Shield Co., Lubricating Oils, Columbus.  
 The Ohio Injector Co., Wadsworth, Ohio.  
 Ohio Valley Furniture Co., Charleston, W. Va.  
 The James Ohlen & Sons Saw Mfg. Co., Columbus.  
 Oil City Boiler Works, Oil City, Pa.  
 Okonite Co., Insulated Wires and Cables, N. Y. C.  
 Joshua Oldham & Sons, Saws for Metal and Wood,  
 New York City.  
 Olerich & Son, Brooklyn, N. Y.  
 D'Olier Engineering Co., Boiler Plants, Phila., Pa.  
 Oliver Iron & Steel Co., Pittsburgh, Pa.  
 Oliver Machinery Co., New York City.

## P

- Pacific Coast Condensed Milk Co., New York  
 City.  
 Pacific Novelty Co., Combs, New York City.  
 Packer Manufacturing Co., Soap, N. Y. C.  
 The Page Belting Co., Concord, N. H.  
 Pain Fireworks Display Co., New York City.  
 Palmer Bros., Motors, Cos Cob, Conn.  
 Palmer Lumber Co., San Francisco, Cal.  
 Panama Lumber & Trading Co., New Orleans, La.  
 The Paraffine Paint Co., Chicago, Ill.  
 Paragon Electric Co., Wire, Chicago, Ill.  
 Paragon Sellers Co., Chicago, Ill.  
 Park & Tilford, Groceries, New York City.  
 Park, Bensinger & Co., General Supplies, N. Y. C.  
 William T. Parke, Shoes, New York City.  
 Parker, Davis & Co., Pyrethum Powder, N. Y. C.  
 Parker-Fain Grocery Co., New Orleans, La.  
 Parker Pen Co., Janesville, Wis.  
 William H. Parkerton, Wire Works, New York City.  
 Parkinson Coal & Coke Co., Brooklyn, N. Y.  
 W. A. Parsons & Co., Tinware, Durham Cra., Conn.  
 Parsons & Whittemore, Paper, New York City.  
 Parsons Bros., Paper, New York City.  
 The Parsons Trading Co., New York City.

- Paterson Parchment Paper Co., Passaic, N. J.  
 C. T. Patterson Co., Ltd., Drill Machinery, etc.,  
 New Orleans, La.  
 Patterson, Gottfried & Hunter, Stakes, Shears, etc.,  
 New York City.  
 Patterson-Sargent Co., Varnishes, New York City.  
 R. A. Patterson Tobacco Co., Richmond, Va.  
 Patton Paint Co., Milwaukee, Wis.  
 E. Pearson & Co., Linoleum, New York City.  
 J. H. Pearson, Machinery, New York City.  
 Pears Soap Agency, New York City.  
 Peck Bros. & Co., Plumbing App., New Haven,  
 Conn.  
 Peerless Dishwasher Co., Rochester, N. Y.  
 Peerless Electric Co., New York City.  
 Peerless Rubber Mfg. Co., New York City.  
 Pelton Water Wheel Co., New York City.  
 Penberthy Injector Co., Detroit, Mich.  
 M. Penderson Co., Com. Merch., New Orleans,  
 La.  
 Penick & Ford, Molasses, New Orleans, La.  
 J. F. Pennell, Steel Castings, New York City.  
 Penn. Bridge Co., Towers for Radio Station,  
 Beaver Falls, Pa.  
 Penn. Flexible Metallic Tubing Co., Phila., Pa.  
 Penn. Salt Manufacturing Co., Philadelphia, Pa.  
 Penn. Steel Casting & Machine Co., Chester, Pa.  
 The Pennsylvania Steel Co., Philadelphia, Pa.  
 Peoples Tobacco Co., New Orleans, La.  
 Perfumer Publishing Co., New York City.  
 The Perkins-Campbell Co., Harness, Cincinnati, O.  
 Peterman Chemical Co., New York City.  
 Petroleum Iron Works, Storage Tanks for Fuel Oil,  
 Sharon, Pa.  
 Pettill & Reed, Groceries, New York City.  
 Pettinos Bros., Graphite Paint Blank, Bethlehem,  
 Pa.  
 S. Pfeifer Co., Rice, New Orleans, La.  
 Philadelphia Machine Works, Philadelphia, Pa.  
 Phillips & Laffitte, Welding Plates, Phila., Pa.  
 Phillips, Jones Co., New York City.  
 Phinotas Chemical Co., New York City.  
 Phoenix Cheese Co., New York City.  
 Phoenix Iron Works, Meadville, Pa.  
 Phoenix Knitting Co., Milwaukee, Wis.  
 Phoenix Specialty Co., Corrugated Copper Gaskets,  
 New York City.  
 Albert Pick & Co., Glass, Towels, Chicago, Ill.  
 Pierson & Co., Iron and Steel, New York City.  
 A. N. Pierson & Co., Plumbing Pipes, N. Y. C.  
 Pigot, Sayre & Co., Oils, New York City.  
 Pilling Air Engine Co., Detroit, Mich.  
 R. H. Pilson, Iron, Shafts, Ringbolts, Wash., D. C.  
 Pinney & Geddes, Cheese, New York City.  
 Pioneer Broom Co., Amsterdam, N. Y.  
 Pioneer Suspender Co., Philadelphia, Pa.  
 Pitt, Barnum & Co., Butter, New York City.  
 Pittsburgh Amiesite Co., Asphalt Mixing Plant,  
 Pittsburgh, Pa.  
 Pittsburgh Forge & Iron Co., Pittsburgh, Pa.  
 Pittsburgh Metal Products Co., Pittsburgh, Pa.  
 Pittsburgh Plate Glass Co., New York City.  
 Pittsburgh Reduction Co., Aluminum, N. Y. C.  
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.  
 Pittsburgh Spring & Steel Co., Pittsburgh, Pa.  
 Pittsburgh Steel Co., Pittsburgh, Pa.  
 Pittsburgh Steel Foundry, Pittsburgh, Pa.  
 Pittsburgh Valve & Foundry Construction Co.,  
 Pittsburgh, Pa.  
 Pittsburgh White Metal Co., Metal Tape, N. Y. C.  
 Thomas G. Plant Co., Shoes, Boston, Mass.  
 George P. Plant Milling Co., St. Louis, Mo.  
 Fayette R. Plumb, Chisels, Philadelphia, Pa.  
 Plymouth Cordage Co., Rope and binder Twine,  
 Plymouth, Mass.  
 J. M. Pyle & Son, Cleansing Powder, Edgewater,  
 N. J.  
 Pocahontas Coke Co., Bramwell, W. Va.  
 Pocohontas Fuel Co., New York City.  
 Poland Spring Water Co., New York City.  
 Alexander Pollock Co., Hardware, New York City.  
 Pompeian Manufacturing Co., Cleveland, Ohio.  
 Poole Bros., Chicago, Ill.  
 Pormentheus Heating Co., New York City.  
 Portcosta Milling Co., San Francisco, Cal.  
 H. K. Porter Co., Locomotives, Pittsburgh, Pa.  
 Porter Safety Seal Co., Lead Seals, Chicago, Ill.  
 William Porters Sons Co., Fixtures, New York City.  
 Port Johnson Towing Co., New York City.  
 The Portland Co., Portland, Me.  
 Portland Cordage Co., Rope, Manila, Portland,  
 Ore.  
 Post Pipe Co., Drain Tile, Texarkana, Ark.  
 Postum Cereal Co., Battle Creek, Mich.  
 Potomac Electric Power Co., Washington, D. C.  
 Potter Drug & Chemical Co., Boston, Mass.  
 D. H. Potts, Forges, Lancaster, Pa.  
 William Powell Co., Valves, Globes, etc., Cincinnati.  
 A. M. Powell, New York City.  
 Power & Mining Co., Cudahy, Wis.  
 Power Specialty Co., Reheaters, New York City.  
 Pratt & Whitney Co., Automatic Weighing Ma-  
 chines, New York City.  
 Pratt & Whitney, Machine Punches, Cutters, etc.,  
 Hartford, Conn.  
 Prentiss Tool & Supply Co., New York City.  
 S. F. Prentzel, Philadelphia, Pa.  
 Pressed Steel Car Co., Pittsburgh, Pa.  
 Prince Manufacturing Co., Paints, New York City.  
 Procter & Gamble Co., Soap and Candles, Cincinnati.  
 Progressive Paper Products Co., New York City.  
 T. C. Prouty Co., Ltd., Albion, Mich.  
 Provident Chemical Works, New York City.  
 The Pulp & Paper Trading Co., New York City.  
 The Pure Baking Powder Co., New York City.  
 The Pure Oil Co., Brooklyn, N. Y.  
 Purington Paving Brick Co., Galesburg, Ill.  
 The Pusey & Jones Co., Tow and Tug Boats, Wil-  
 mington, Del.  
 Pyles Nat. Electric Headlight Co., Chicago, Ill.

## Q

Quaker City Rubber Co., New York City.  
 Quaker Oats Co., Chicago, Ill.  
 Queen & Co., Tracing Cloth and Sup., Phila., Pa.  
 Queen City Supply Co., Canvas Bolting, Cincinnati.  
 Quincy, Manchester & Sargent, New York City.

## R

Rahtgen's American Composition Co., Anti-Corrosive Compound, New York City.  
 The Rail Joint Co., New York City.  
 The Railway Appliance Co., Machinery, Chicago, Ill.  
 Railway Steel Spring Co., New York City.  
 Railway & Traction Supply Co., Chicago, Ill.  
 Ramies & Co., Metal Polish, New York City.  
 Rampo Foundry & Wheel Works, Rampo, N. Y.  
 Rand, McNally Co., Publishers & Printers, N. Y. C.  
 John C. Rankin Co., Stationery, New York City.  
 Ransom, Parker & Co., Paper, New York City.  
 Ransome Concrete Machinery Co., Dunellen, N. J.  
 Raritan Chemical Works, New York City.  
 The Raritan Paint Co., New York City.  
 Rathbone Sard & Co., Stoves, Albany, N. Y.  
 Rawles-Cobb Co., Factory & Mach. Sup., Boston.  
 W. S. Ray Manufacturing Co., Galvanized Corrugated Stove Pipe Elbows, San Francisco, Cal.  
 A. J. Reach, Sporting Goods, Philadelphia, Pa.  
 Reading Hardware Co., New York City.  
 Reading Iron Co., Reading, Pa.  
 Remington & Sherman, Safes, New York City.  
 The Record Oil Refining Co., New Orleans, La.  
 Rector Help-o-phone Co., New York City.  
 Red Wing Milling Co., Red Wing, Minn.  
 S. E. Redfern, New Orleans, La.  
 Reeb & Dinkins, Doors & Sashes, New York City.  
 Reed Murdock Co., Chicago, Ill.  
 Reeves Pully Co., Columbus, Ohio.  
 Eli J. Reicer Co., Show Cases & Store Fixtures, N. Y.  
 Alex Reid, Engine Boiler Makers, New York City.  
 James Reilly Repair & Supply Co., Heaters, New York City.  
 W. Reinert & Co., Hats, New Orleans, La.  
 Reiss & Brady, Canning Co., New York City.  
 Remington Machine Co., Refrigerating and Ice Making Plants, Wilmington, Del.  
 Remington Typewriter Co., New York City.  
 Repetti Co., Candy, New York City.  
 Reppenhagen Cutlery Co., Highland Falls, N. Y.  
 Republic Bag & Paper Co., New York City.  
 Republic Metal Ware Co., New York City.  
 The Republic Rubber Co., Rubber Hose, Youngstown, Ohio.  
 Clement Restein Co., Packing, Philadelphia, Pa.  
 Revere Rubber Co., New York City.  
 J. Reyner, Supplies, Newport News, Va.  
 E. C. Reynolds, Steam Tugboat, New York City.  
 R. J. Reynolds Tobacco Co., Winston-Salem, N. C.  
 Reynolds & Irving, Groceries, New York City.  
 Louis P. Rice & Co., Harness, New Orleans, La.  
 Rice, Stix Dry Goods Co., St. Louis, Mo.  
 Richard Mfg. Co., Miter Forcing Machine, Bloomsburg, Pa.  
 The Frank Richardson Laundry Supply Co., N. Y. C.  
 Richardson Silk Co., Thread, Chicago, Ill.  
 H. Richters Sons, Neckwear, New York City.  
 Ridabock & Co., Wearing Apparel, New York City.  
 Ridgeway Mfg. Co., Wearing Apparel, Trenton, N. J.  
 Riggs & Bro., Standard Compensating Binnacle, Philadelphia, Pa.  
 Riker & Hegeman, Drugs, New York City.  
 Theo. Ricksecker Co., Druggists, New York City.  
 F. A. Ringler, Electrotypers, New York City.  
 Ritz-Carlton Hotel Co., New York City.  
 Riverside Mills, Inc., Cotton Waste, Augusta, Ga.  
 J. B. Roache, Contractor, Brooklyn, N. Y.  
 The Robb Mumford Boiler Co., Inc., N. Y. C.  
 The Roberts Motor Co., Gasoline Motor, Sandusky, Ohio.  
 Roberts, Johnson & Rand, Shoes, St. Louis, Mo.  
 C. E. Robidoux, Lathe, Carborundum Wheels, St. Louis, Mo.  
 A. Robertson & Sons, Doors, Binghamton, N. Y.  
 James L. Robertson & Son, Machine Supplies, N. Y.  
 The Robinson Lumber Veneer & Box Co., New Orleans, La.  
 The Robinson Clay Product Co., Filters and Coolers, New York City.  
 Rockwood & Co., Chocolate and Cocoa, N. Y. C.  
 Rochester Stamping Co., Hardware Specialties, Rochester, N. Y.  
 Rockland-Rockport Lime Co., New York City.  
 Rockhill & Victor, Wholesale Druggists, N. Y. C.  
 L. A. Rockwell & Co., Baking Machines, New York.  
 W. C. Rodgers, Flooring, Hattiesburgh, Miss.  
 John A. Roebing's Sons Co., Wire Rope and Wire Goods, Trenton, N. J.  
 Roe Stephens Mfg. Co., Detroit, Mich.  
 Roessler & Hasslacher, Chemicals, New York City.  
 Roger Ballast Car Co., Chicago, Ill.  
 H. A. Rogers Co., Railway Supplies, New York City.  
 Rohe & Bro., Packers, New York City.  
 Rome Brass & Copper Co., Rome, N. Y.  
 P. H. & F. H. Roots Co., Cupalo Blowers, Connersville, Ind.  
 Rosaler Safe & Lock Co., New York City.  
 Rosen & Hermann, Shirts, New York City.  
 R. Rosenberg & Sons Co., San Francisco, Cal.  
 Rosenberg Bros. Co., San Francisco, Cal.  
 Samuel Rosenblatt, New York Soap Works, N. Y. C.  
 H. Rosenthal & Bro., Paint Brushes, N. Y. C.  
 Rosenthal Bros., Cigars, New York City.  
 Rosedale Foundry Co., Cylindrical Valves, Pittsburgh, Pa.  
 Harry & Morris Rosenwasser, Leggings, N. Y. C.  
 Ross-Meehan Foundry Co., Chattanooga, Tenn.  
 John Rothschild & Co., Food Products, San Francisco, Cal.

- R. P. Rowe, Fire Extinguishers, New York City.  
 E. W. A. Rowles, Railroad and Steamship Books, Chicago, Ill.  
 The Royal Eastern Elec. Supply Co., N. Y. C.  
 Royal Mfg. Co., Wool Waste, Rahway, N. J.  
 Royal Manufacturing Co., Cotton, New York City.  
 Rubberbound Brush Co., Belleville, N. J.  
 Rubberhide Co., Boots and Rubber Goods, Boston.  
 Rubberset Co., Brushes, New York City.  
 Rubens & Meyer, Clothing, New York City.  
 Rudolph & West Co., Hardware, Washington, D. C.  
 Ruddock Orleans Cypress Co., Cypress Switch Ties, New Orleans, La.  
 Rueff Bros., Novelties and Jewelry, New York City.  
 L. M. Rumsey Mfg. Co., Galvanized Pipe, St. Louis.  
 Rumsey Pump Co., New York City.  
 Runkle Bros., Cocoa, New York City.  
 Rushmore Dynamo Works, Plainfield, N. J.  
 Russell, Burdsall & Wood, Bolt & Nut Co., Port Chester, N. Y.  
 Russell & Erwin, Hardware, New York City.  
 Russian Caviar Co., New York City.  
 John T. Ryerson & Son, Punching Machs., etc., Chicago, Ill.
- S
- Sable Bros., Hats, New York City.  
 Safety Armorite Conduit Co., Pittsburgh, Pa.  
 The Safety Insulated Wire & Cable Co., N. Y. C.  
 H. W. St. Charles Condensed Milk Co., N. Y. C.  
 H. W. St. Johns, Horlick's Malted Milk, N. Y. C.  
 Salant & Salant, Shirts, New York City.  
 Salem Brick & Lumber Co., New Orleans, La.  
 Sallade & Co., Insect Exterminator, N. Y. C.  
 Salmon Lumber Co., New Orleans, La.  
 M. Salzbery, Stationery, New York City.  
 Samuel Cupples Engraving Co., New York City.  
 Frank Samuels, Pig Iron and Alloys, Phila., Pa.  
 Sanatol Chemical Laboratory Co., St. Louis, Mo.  
 San-Knit-ary Textile Mills, Philadelphia, Pa.  
 R. P. Le Sassier, New Orleans, La.  
 J. R. Saunders Co., Turpentine, New Orleans, La.  
 Sawyer Belting Co., Cleveland, Ohio.  
 Sawyer-Mann Lamp Co., New York City.  
 Sargent & Co., Hardware, New York City.  
 Sayles-Zahn Co., Packers, New York City.  
 Charles Schaefer, Feed, Brooklyn, N. Y.  
 H. A. Schafer, Comsn. Merchant, New York City.  
 Schaffer & Budenburg Mfg. Co., New York City.  
 J. A. Schatzberg, Hardware, New York City.  
 Mr. Edward Schenk, Buckets, York, Pa.  
 Henry Schief, Wearing Apparel, New York City.  
 Schieffelin & Co., Wholesale Druggists, N. Y. C.  
 Charles A. Schieren Co., Leather Belting, N. Y. C.  
 Nathan Schivertzer, Comsn. Merchant, N. Y. C.  
 Enos F. Schlichter, Water Tanks, Phila., Pa.  
 Fred A. Schmidt, Blue Print Paper, Wash., D. C.  
 H. A. Schnackenberg, New York City.  
 Schoen-Jackson Co., Bronze Hose, Media, Pa.  
 Julian Scholl & Co., Steam Rollers, New York City.  
 Schoverling, Daly & Gales, Photography Sup. N. Y.  
 A. Schraeder's Son, Inc., Materials, New York City.  
 J. H. Schriber & Co., Clothing, New York City.  
 L. Schulmann & Sons, Patterns for Uniforms, N. Y.  
 Schuls Bakery Co., Bakery Supplies, Chicago, Ill.  
 Schultz Patent Rubber Co., Rubber Valves, Phila.  
 Richard Schuster, New York City.  
 Schutts & Koerting Co., Valves, Philadelphia, Pa.  
 J. & M. Schwabacher, Com. Merch., New Orleans.  
 S. M. Schwab, Jr., & Co., Dry Goods, Draperies, N. Y.  
 Joseph Schwartz Co., Ltd., Wagonettes, New Orleans, La.  
 C. L. Schwartz, St. Louis, Mo.  
 Schwartzchild & Sulzberger, Packers, Chicago, Ill.  
 Scott Manufacturing Co., Racine, Wis.  
 St. Louis Screw Co., Brass Bolts, St. Louis, Mo.  
 John Scully & Thomas J. Scully, Perth Amboy, N. J.  
 Seaboard Trading Co., New York City.  
 C. L. Seabury & Co., Launch, Morris Heights, N. Y.  
 Seafoam Baking Powder Co., New York City.  
 The Seagrave Co., Wagons, Columbus, Ohio.  
 Seaman, Lichtenstein, Comsn. Merch., N. Y. C.  
 Theodore C. Search, Philadelphia, Pa.  
 James W. Sederguest, Bolts, Boston, Mass.  
 Seeman Bros., Groceries, New York City.  
 S. Segari & Co., Vegetables and Fruit, New Orleans.  
 William Sellers & Co., Inc., Slotters, Parallel Driver Planer, Philadelphia, Pa.  
 H. J. Seward & Co., General Supplies, Baltimore.  
 J. F. Sexton, Plumbers, New York City.  
 S. B. Sexton Stove & Mfg. Co., Baltimore, Md.  
 Selby Smelting & Lead Co., San Francisco, Cal.  
 Self-Winding Clock Co., New York City.  
 Charles P. Semmelhack, Chemists, Chicago, Ill.  
 Shaw & Leopold, Pipe, Philadelphia, Pa.  
 James K. Shaw, Crockery, New York City.  
 Shawiningan Carbide Co., New York City.  
 Samuel T. Shaw, New York City.  
 Shawmut Clay Manufacturing Co., New York City.  
 Shaw-Walker Co., Filing Cabinets, Chicago, Ill.  
 D. W. Shayer & Co., Hammocks, New York City.  
 Sherburne & Co., Boston, Mass.  
 Sherwin-Williams Co., Paints and Varnish, Newark, N. J., and Cleveland, Ohio.  
 James Shewann & Sons, Dry Goods, New York City.  
 The Shipley Construction Co., Chemicals, N. Y. C.  
 Shredded Wheat Co., Niagara Falls, N. Y.  
 A. Shuttleworth, Keilles & Co., Woodware, N. Y. C.  
 Shaw Electric Crane Co., New York City.  
 Sherman, Brown & Clement, Tools and Machine Parts, New York City.  
 Sherman Brown & Co., Steel Materials, N. Y. C.  
 Richard B. Sherman, Drills, New York City.  
 Charles E. Sholes Co., Carbolic Acid, New York City  
 F. Simon Goldberg Co., New York City.  
 Robert H. Sizer & Co., Trestles, Timber, N. Y. C.  
 Siegel-Cooper Co., Department Store, N. Y. C.  
 Sigmund Eisner, Khaki Goods, Red Bank, N. J.  
 John Simmons Co., Plumbing Supplies, N. Y. C.



Stern Bros., Dry Goods, New York City.

L. L. Stern, Supplies, Norfolk, Va.

John B. Stetson Co., Philadelphia, Pa.

Stetson Shoe Co., S. Weymouth, Mass.

Stevenson Bros. & Co., Oils, Philadelphia, Pa.

The Stevenson Co., Ice and Refrigerating Machinery,  
Chester, Pa.

Stewart Dickson & Co., Packing, New York City.

Jacques Stisch, Vegetables and Fruit, New Orleans.

J. & J. W. Stoltz, Caskets, New York City.

Stonega Coke & Coal Co., Philadelphia, Pa.

Storer Motor Car Co., Freeport, Ill.

Eben Storer, Paper, New York City.

H. M. Storms, Stationery, New York City.

Storrs, Schaefer & Co., Uniforms, Cincinnati, Ohio.

Straus Bascule Bridge Co., Designed Lift Span,  
Chicago, Ill.

L. Strauss & Son, Bath Fixtures, New York City.

Strawbridge & Clothier, Dry Goods, Philadelphia, Pa.

J. S. Stringham, Detroit, Mich.

Strobel & Wilkins, Toys, New York City.

Studebaker Corporation, Vehicles of all Kinds,  
South Bend, Ind.

G. L. Stuebner Iron Works, Buckets, Long Island C.

John Stumpf, Ant Paper, Greta, La.

B. F. Sturtevant Co., Engravers, New York City.

B. F. Sturtevant Co., Generators, Hyde Park,  
Mass.

Suderman & Dolson, General Sup., Galveston, Texas.

Sugar Pine Lumber Co., San Francisco, Cal.

J. W. Sullivan & Co., Marine Engine Builders, N.Y.C.

Sullivan Machinery Co., Chicago, Ill.

Sullivan Machinery, New York City.

Sullivan Metallic Packing Co., Chicago, Ill.

Sulzberger & Sons Co., Packers, Chicago, Ill.

Sun Co., Petroleum Products, Philadelphia, Pa.

Sunlit Fruit Co., W. Berkeley, Cal.

The Superior Machine Co., Saw Blades, Chicago,  
Ill.

Suplee, Reeve, Whiting Co., Umbrellas, N. Y. C.

Surburg & Co., Cigarette Papers, New York City.

Surpless, Dunn & Co., General Supplies, N. Y. C.

Susquehanna Coal Co., Philadelphia, Pa.

Sussfeld, Lorsh & Co., Optical Goods, N. Y. C.

Sussman, Wormser, Co., San Francisco, Cal.

Sutphen & Myer, Plate Glass, New York City.

E. Sutro & Son, Clothing, Philadelphia, Pa.

G. T. Sutterly Co., Cuspidors, Philadelphia, Pa.

Swaffield Murphy Comsn. Co., Straw, New Orleans.

H. C. Swain & Co., New York City.

H. C. Swain & Sons, Household Furnishings, New  
York City.

Swan & Finch, Lubricating Oils, New York City.

Nathan Sweitzer, New York City.

Swenson Valve Co., Decorah, Ia.

Swift & Co., Packers, Chicago, Ill.

Swindell Bros., Glass, Baltimore, Md.

T. H. Symington Co., Iron Castings, Baltimore,  
Md.

Syndicate Trading Co., Wearing Apparel, New York.

## T

Tabor Mfg. Co., Machines, Saws and Grinders,  
Philadelphia, Pa.

Charles J. Tagliabue Mfg. Co., Thermometers, N. Y.

J. B. Taltavall, Publisher, New York City.

Tasker & Strawbridge, Philadelphia, Pa.

Taunton-New Bedford Copper Co., New Bedford,  
Mass.

George H. Tay Co., San Francisco, Cal.

W. P. Taylor Co., Buffalo, N. Y.

N. & G. Taylor, Tin, Philadelphia, Pa.

W. P. Taylor Co., Boxes, Buffalo, N. Y.

S. C. Taylor Chain Co., Chicago, Ill.

Taylor Instrument Co., Rochester, N. Y.

Taylor-Wharton Iron & Steel Co., High Bridge, N. J.

Taylor Nurse Bed Co., New York City.

H. R. Teepe, Mfrs., Agents, New York City.

Tefft-Weller & Co., Millinery Supplies, N. Y. C.

Tedcastle & Co., Shoes, Boston, Mass.

Telescope Cot Bed Co., New York City.

C. K. Tenny & Co., Straw Hats, New York City.

Tenny, Hills & Hall, Hats, New York City.

Terre Haute Carriage & Buggy Co., Terre Haute,  
Ind.

F. B. Tharns, Tents, New York City.

M. H. Thatcher, Ancon, Panama.

Theobald & Oppenheimer Co., Cigars, Phila., Pa.

Thermoid Rubber Co., Packing, Hose, Trenton, N.J.

The Charles Taylor's Sons Co., Brick & Fire Clay,  
Cincinnati, Ohio.

The Texas Co., Petroleum Oils, New York City.

The Thew Automatic Shovel Co., Lorain, Ohio.

The Timekeeper Co., Watches, Chicago, Ill.

The Tower Mfg. & Novelty Co., Stationery, N.Y.C.

The Touraine Co., Boston, Mass.

The Trenton Iron Co., Trenton, N. J.

J. R. Thomas, Tents, New York City.

Seth Thomas Clock Co., New York City.

W. E. Thomas, Forage, Leavenworth, Kans.

L. H. Thomas Co., Paste, Chicago, Ill.

G. A. Thomas Machine Co., Belleville, N. J.

G. H. A. Thomas Co., Lumber, New Orleans, La.

Arthur H. Thomas Co., Light Excluding Apparatus,  
Philadelphia, Pa.

Thomas & Betts Co., Elec. Goods, New York City.

Thomas Laughlin Co., Wood Tackle Blocks, Port-  
land, Me.

Thonet Bros., New York City.

F. R. Thorns, New York City.

J. M. Thornburn & Co., Comsn. Merch., New York.

Three-In-One Oil Co., New York City.

O. & W. Thum Co., Fly Paper, Grand Rapids, Mich.

Tidewater Press, Stationery, New York City.

Tietjen & Lang D. D. Co., Hoboken, N. J.

Tiffany & Co., Jewelers, New York City.

George Tileston Milling Co., St. Cloud, Minn.

Walter B. Timms, Lye, Soap, New York City.

Tingue, Brown & Co., Flts., New York City.

Tital Steel Castings Co., Screen Plates, Newark, N. J.



Toledo Bridge & Crane Co., Structural Steel Works,  
Toledo, Ohio.  
Topping Bros., Glass Instruments, New York City.  
W. E. Torrens & Co., Straw Hats, New York City.  
J. R. Torry Razor Co., Worcester, Mass.  
D. A. Tower, New York City.  
A. J. Towers Co., Slickers, New York City.  
Tower & Lyon Co., Hardware Specialties, N. Y. C.  
Towns & James, Druggists, Brooklyn, N. Y.  
Travers Bros. Co., Cord, New York City.  
Walter L. Treat, Reamers, New York City.  
John Tregeser, Copper Ware, New York City.  
Trenton Rubber Manufacturing Co., Trenton, N. J.  
Trojan Powder Co., New York City.  
Tropenas Converter Co., Converters, New York  
City.  
Troy Laundry Machinery Co., New York City.  
True Shape Hosiery Co., Philadelphia, Pa.  
Trussed Concrete Steel Co., Detroit, Mich.  
Tucker Tool & Machine Co., New York City.  
Tucker & Carter Rope Co., Cord, New York City.  
J. Spencer Turner Co., Canvas, New York City.  
R. C. Turner, Insurance, New York City.  
Tuttle & Bailey Manufacturing Co., New York.  
Tutwiler Coal & Coke Co., New Orleans, La.  
W. S. Tyler Co., Copper Wire Netting, Cleveland,  
Ohio.  
Tyler Tube & Pipe Co., New York City.

## U

Bernard Ullman, Dry Goods, New York City.  
Underwood Typewriter Company, New York City.  
Union Bag & Paper Co., New York City.  
Union Carbide Sales Co., New York City.  
Union Condensed Milk Co., New York City.  
Union Draft Gear Co., Chicago, Ill.  
Union Drawn Steel Co., New York City.  
Union Fiber Co., Winona, Minn.  
Union Foundry Co., Anniston, Ala.  
Union Foundry & Machine Co., Pittsburgh, Pa.  
Union Iron Works, Floating Caisson Dams, San  
Francisco, Cal.  
Union Oil Co., Road Oil, California.  
Union Petroleum Co., Philadelphia, Pa.  
Union Selling Co., New York City.  
Union Spring & Manufacturing Co., New York City.  
Union Steel Castings Co., Pittsburgh, Pa.  
Union Stove Works, New York City.  
The Union Switch & Signal Co., New York City  
and Swisssdale, Pa.  
Union Tool Co., Torrance, Cal.  
United Building Material Co., Giant Portland  
Cement, New York City.  
United Cigar Stores Co., New York City.  
United Engineering & Foundry Co., Chain Operat-  
ing Machinery, Pittsburgh, Pa.  
United & Globe Rubber Mfg. Co., Wash., D. C.  
United Lead Co., New York City.

United Produce Co., New York City.  
United Shirt & Cloth Co., New York City.  
United Shoe Machinery Co., Boston, Mass.  
United Shirt & Collar Co., New York City.  
United States Envelope Co., Rockville, Conn.  
United States Graphite Co., Saginaw, Mich.  
United States Steel Rails Co., New York City.  
Universal Supply Co., Stationery, New York City.  
Universal Trading Co., Tar, Chloride of Lime, etc.,  
New York City.  
The George Urban Milling Co., New York City.  
U. S. Cast Iron & Foundry Co., New York City.  
U. S. Cast Iron Pipe & Foundry Co., Phila., Pa.  
U. S. Electrical Tool Co., Cincinnati, Ohio.  
U. S. Gutta Percha Paint Co., Providence, R. I.  
U. S. Metallic Packing Co., Philadelphia, Pa.  
U. S. Mop Co., Toledo, Ohio.  
U. S. Paper Exp. Assn., New York City.  
U. S. Ray Manufacturing Co., San Francisco, Cal.  
U. S. Shipping Co., New York City.  
U. S. Steel Co., New York City.  
U. S. Steel Products Exports Co., New York City.  
U. S. Tie Plug Co., Saginaw, Mich.

## V

Valley Iron Works, Inc., Williamsport, Pa  
Valk & Murdoch Iron Works, Charleston, N. C.  
Valves Sales Co., Valves, La Crosse, Wis.  
Van Camp's Packing Co., New York City.  
Van Bibber Roller Co., Cincinnati, Ohio.  
Van Houton & Zwon, Chocolate, Cocoa, N. Y. C.  
Peter Van Schaack & Sons, Sponges, Chicago, Ill.  
J. B. Van Seiver Co., Office Furniture, Camden, N. J.  
F. R. & F. J. Vericon, Brooklyn, N. Y.  
Vermilye & Power, Gongs, Lights, Pumps, N. Y. C.  
The Vilter Mfg. Co., Milwaukee, Wis.  
Harry Vissering & Co., Valves, etc., Chicago, Ill.  
L. Vogelstein & Co., Tin and Copper, New York.  
Voorhees Rubber Mfg. Co., Jersey City, N. J.  
Vulcan Iron Works, Wilkes-Barre, Pa.  
Vulcan Rail & Construction Co., Brooklyn, N. Y.

## W

The Waage Electric Co., Chicago, Ill.  
Waclark Wire Co., New York City.  
H. A. Wagner, Lebanon, Pa.  
Walker Electric Co., New York City.  
John W. Walker, Packer, New York City.  
Wall Rope Works, Manila Rope, New York City.  
John F. Wallace, New York City.  
D. S. Walton & Co., Paper, New York City.  
John Wanamaker, Dry Goods, New York City.  
Horace Ward, Handles, Washington, D. C.  
Warren Wood, Wood Drill Works, Paterson, N. J.  
Warnock Co., Hats, New York City.  
Washburn-Crosby Co., Flour, Minneapolis, Minn.

- Washington Rubber Co., Washington, D. C.  
 Martha Washington Candy Co., Baltimore, Md.  
 Waterbury Co., Manila Rope, New York City.  
 Waterman & Co., Vegetables, New York City.  
 Watkins Laundry Machine Co., New York City.  
 John B. Watkins, Dating Stamps, New York City.  
 J. Y. Watkins & Son, Hotel Supplies, New York.  
 Wawyer Boot & Shoe Co., Bangor, Maine.  
 J. H. Weaver & Co., Coal, Philadelphia, Pa.  
 Webb Motor Fire Apparatus Co., St. Louis, Mo.  
 and Allentown, Pa.  
 Elisha Webb & Sons Co., Cooking Stoves, Phila., Pa.  
 James A. Webb, Chemicals, New York City.  
 F. Weber & Co., Pencils, Philadelphia, Pa.  
 W. C. Weber, Jeweler, New York City.  
 Webster Refining Co., Jennings, La.  
 A. A. Weeks-Hoskins Co., Office Fixtures & Sup., N. Y.  
 J. H. Weil & Co., Jacks, German Silver Thumbs,  
 Philadelphia, Pa.  
 Weller Mfg. Co., Friction Clutch Pulley, Chicago.  
 Welch Grape Juice Co., New York City.  
 Wellington, Sears & Co., Canvas, Boston, Mass.  
 Robert Werk & Co., Mattresses and Pillows, New  
 Orleans, La.  
 Werner & Pfeleiderer, Conveyers, Saginaw, Mich.  
 Wertheimer Swarts Shoe Co., St. Louis, Mo.  
 West Coast Trading Co., Wearing Apparel, N. Y. C.  
 West Disinfectant Co., New York City.  
 West End Rolling Mill Co., Lebanon, Pa.  
 West India Oil Co., Kero. and Gasoline, N. Y. C.  
 West India Oil Co., Road Oil, St. Louis, Mo.  
 The West Pascagoula Creosoting Works, W. Pasca-  
 goula, Miss.  
 Western Clock Co., New York City.  
 Western Electric Co., New York City.  
 Western Electric Co., Cable, New York City.  
 Western Electric Instrument Co., Newark, N. J.  
 Western Railway Equipment Co., St. Louis, Mo.  
 Western Steel Car & Foundry Co., Chicago, Ill.  
 Western Tube Co., Ties, Kewanee, Ill.  
 Western Wheeled Scraper Co., Aurora, Ill.  
 Paul Westfall, Drugs, New York City.  
 Westinghouse Air Brake Co., Pittsburgh, Pa., and  
 Wilmerding, Pa.  
 Westinghouse Elec. & Mfg. Co., E. Pittsburgh, Pa.  
 Westinghouse Machine Co., E. Pittsburgh, Pa.  
 Wetherill Bros., Machine Co., Gears, Ball Joints,  
 etc., Chester, Pa.  
 J. R. Wettstein, White Lead, New York City.  
 William Wharton, Jr., & Co., Iron and Steel, Phila.  
 C. H. Wheeler Manufacturing Co., Philadelphia, Pa.  
 Morris Wheeler & Co., Philadelphia, Pa.  
 Wheeling Corrugating Co., New York City.  
 Wheeling Mold & Foundry Co., Wheeling, W. Va.  
 Wheelock, Lovejoy & Co., New York City.  
 Whelan, Davit & Lane & De Groot Co., Metallic  
 Life Boats, New York City.  
 Wheelock Reinforced Cork Boat Co., New York.  
 Whital, Tatum Co., Druggists, New York.  
 White Enameling Refrigerating Co., St. Paul, Minn.  
 White Furniture Co., Mebane, N. C.  
 The White Tar Co., Lime, New York City.  
 White, Van Glahn & Co., Hardware, New York City.  
 Whiting Foundry Equipment Co., Harvey, Ill.  
 C. W. Whitman Co., Dry Goods, New York City.  
 The Whitmore Mfg. Co., Oils, Cleveland, Ohio.  
 Whitney Supply Co., Belting, New Orleans, La.  
 Wichert & Gardiner, Shoes, Brooklyn, N. Y.  
 Wick Narrow Fabric Co., Philadelphia, Pa.  
 Wickwire Bros., Inc., Wire Cloth, Cortland, N. Y.  
 Wiebush & Hilger, Hardware, New York City.  
 Wier Frog Co., Cincinnati, Ohio.  
 W. J. Wilcox Lard & Refining Co., New York City.  
 Will & Baumer, Candles, New York City.  
 William-Seaver-Morgan Co., Concrete Buckets,  
 Cleveland, Ohio.  
 A. A. Williams Shoe Co., Hollister, Mass.  
 Arthur P. Williams, New York City.  
 Williams Brown & Earle, Inc., Philadelphia, Pa.  
 J. B. Williams, General Supplies, New York City.  
 I. T. Williams & Sons, Lumber, New York City.  
 Williams & Wells Co., Steel, New York City.  
 Wms. White & Co., Coal Chute Pockets, Moline, Ill.  
 F. P. Wilkinson, Hardware, New York City.  
 Williamson Bros. Co., Philadelphia, Pa.  
 Balfour Williamson & Co., General Sup., New York.  
 Williamsport Wire Rope Co., Williamsport, Pa.  
 C. G. Willoughby, Photo Supplies, New York City.  
 Wilmington Malleable Iron Co., Wilmington, Del.  
 Wilson Bros., Jewelry, Brooklyn, N. Y.  
 Wilson Distilling Co., Mineral Water, New York.  
 Wilson, Adams & Co., New York City.  
 Wilson-Masculen Co., Electro Pyro Meters, N. Y. C.  
 Wilson & Bradbury, Blankets, Philadelphia, Pa.  
 William A. Wilson, New York City.  
 James B. Wilson Co., Stationery, New York City.  
 Jas. G. Wilson Mfg. Co., Shutters, New York City.  
 Winchester Repeating Arms Co., New York City.  
 Wincroft Stove Works, Middletown, Pa.  
 Wingarten Bros., Corsets, New York City.  
 D. P. Winne Co., Rope, New York City.  
 The Francis T. Witte Hardware Co., New York.  
 Rudolph Wirlitzer, Musical Instrus., Cincinnati, O.  
 Wolfs, Sayer & Heller, New York City.  
 Wolverine Motor Works, Inc., Bridgeport, Conn.  
 Wood Drill Works, Rock Drills, Paterson, N. J.  
 The Woodhouse Mfg. Co., Hand Grenades, N. Y. C.  
 George Wood & Sons, Dry Goods, New York City.  
 R. D. Wood & Co., Iron Pumps, Philadelphia, Pa.  
 E. B. Woodward, General Supplies, N. Y. C.  
 Woodward & Lothrop, Inc., Dry Goods, Wash., D. C.  
 Woodward, Wight & Co., Ltd., Com. Merch., New  
 Orleans, La.  
 Woolen Distilling Co., Peoria, Ill.  
 Work & Co., Straw Hats, New York City.  
 James R. Wotherspoon, Galvanized Night Soil  
 Buckets, Philadelphia, Pa.  
 Wouldham Cement Co., Ltd., New York City.  
 E. T. Wright & Co., Shoes, Rockland, Mass.  
 Wright & Ditson, Sporting Goods, New York City.

William Wrigley, Jr., Chewing Gum, Chicago, Ill.  
 Wrought Washer Mfg. Co., Milwaukee, Wis.  
 Wycoff Pipe & Creosoting Co., Inc., Stamford, Conn.  
 Wycoff, Seamans & Benedict, New York City.  
 D. Wynant, Comn. Merchant, New York City.  
 Wynkoop, Hallenbeck, Crawford Co., Printers,  
 New York City.

## Y

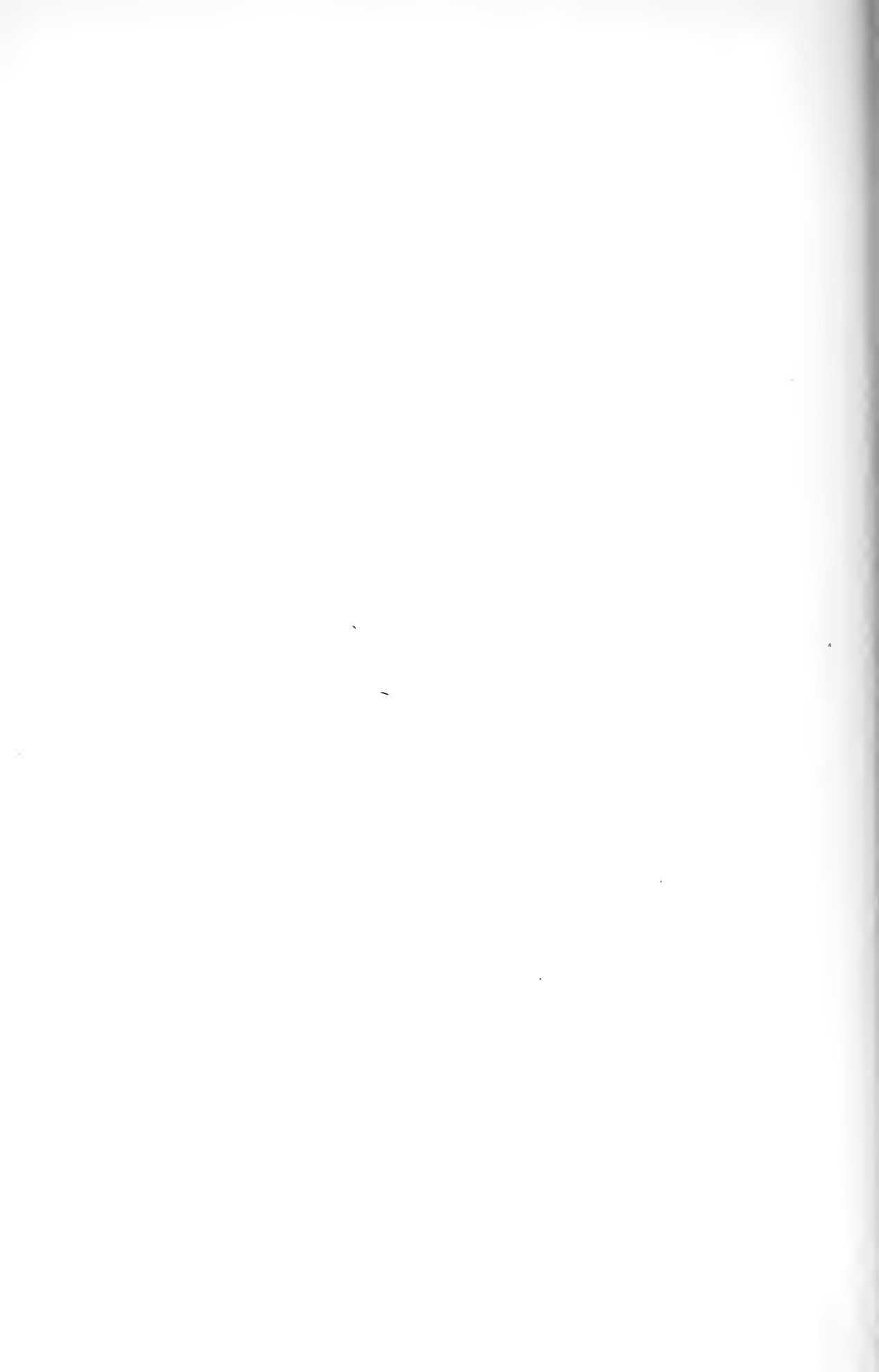
Julian L. Yale & Co., Wool Waste, Chicago, Ill.  
 The Yale & Towne Mfg. Co., Locks, New York.  
 Yawman & Erbe Mfg. Co., Office Sup. Wash., D. C.  
 Joseph Yeska, Clothing, New York City.  
 N. D. Yont & Co., Steel, Pittsburgh, Pa.

York Export & Commission Co., New York City.  
 York Mfg. Co., Chemicals, Ice Machines, N. Y. C.  
 York Safe & Lock Co., Safes, York, Pa.  
 A. C. Young & Co., Fish Packers, Richmond, Va.  
 Y. M. C. A. Library Agency, B. P. Bartlette, Mgr.,  
 Le Roy, N. Y.  
 Young & Selden Co., Stationers, Baltimore, Md.  
 A. P. Youngblood, Flour, New York City.  
 The Youngstown Sheet & Tube Co., Youngstown, O.

## Z

Zabriskie & Co., Flour, New York City.  
 A. Zereges Sons, Macaroni, New York City.  
 Zimmern & Levi, Ties, New York City.

## BIOGRAPHICAL



## BIOGRAPHICAL

- ABBOT, HENRY LARCOM, Int. bd. consulting eng'rs., Panama Canal; born Beverly, Mass., Aug. 13, 1831; ed. Boston Latin School, 1846-50; grad. West Point, 1854; L.L.D. Harvard; Designed system of submarine defense adopted by U. S.; Retired from corps of eng'rs. U. S. A., 1895; Member Tech. Comm. and consulting eng'r. New Panama Canal Co., 1897-1904; Made experiments to solve problems of the Panama Canal.
- ACEVEDO, RAMON F., secy. of Fomento and Public Works, Republic of Panama; ed. in Bogotá; interested in commission business and commercial interests in Costa Rica for many years; apptd. Secy. of Finance by Pres. Mendoza; apptd. Secy. State by Pres. Arosemena.
- ACHER, A. H., capt., Corps of Engrs., U. S. A.; asst. engr. Div. Fortifications, The Panama Canal, since 1912; born June 6, 1885; grad. U. S. Mil. Acad.; 2d lt. eng., June 11, 1909; 1st lt. Feb. 27, 1912; capt. 1915; add. Culebra, Canal Zone.
- ADAMS, JAMES H., born Miss. 1877; went to Isthmus 1907; genl. foreman construction Bas Obispo; supervisor lock excavation Gatun; in charge construction Colon harbor breakwater, 1911.
- ADAMSON, WILLIAM C., Member of Congress from Georgia; chmn. Com. on Interstate and Foreign Commerce; in charge of Panama Canal Act of 1912; born Bowdon, Ga., Aug. 13, 1854; grad. Bowdon College 1874 (A.M. Bowdon); read law in office of Hon. Sampson W. Harris; admitted to bar Oct. 1876; judge city court Carrollton, Ga., 1885-89; pres. elector 1892; elected to 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th Congresses.
- ALEXANDER, WILLIAM H., apptd. asst. supt. transportation, Cent. Div., Canal Zone, July 1, 1908.
- AMADOR, MANUEL, first Pres. Republic of Panama; active in revolutionary movement against Colombia; deceased.
- AMMEN, DANIEL, Rear Admiral, U. S. N.; born in Brown County, Ohio, May 15, 1820; entered the navy as a midshipman in 1836; in 1849 promoted to lieutenant; commissioned captain in 1866. Later was made a commodore, and in 1874 commissioned rear admiral. In that year was appointed with General A. A. Humphreys to make surveys for a ship canal through the Isthmus of Panama, and also through Nicaragua. Three years later the commission made an elaborate report, having caused four routes to be surveyed. Died Washington, D. C., July 11, 1898.
- ANDREVE, GUILLERMO, secy. Pub. Educ., Republic of Panama; owner of the newspaper *La Prensa*; writer of textbooks; founder of first ill. review of Panama, the *Herald*.
- ANDREWS, PHILIP, Capt. U. S. N.; born New York Mar. 31, 1866; ap. naval acad. from N. J., 1882; chief Bu. Nav., rank of rear adm., under Secy. Meyer; com. *Maryland*; commandant Yerba Buena training sta., Cal.
- ANGEL, LAURENCE, Capt. U. S. A., 1st lt. police dept., Canal Zone in 1905; born Sept. 20, 1873; apptd. 2d lt., P. R. P. R. Inf. Mar. 25, 1902; 1st lt. Jan. 31, 1903; hon. disc. June 30, 1904; apptd. 1st lt. P. R. P. R. Inf. July 1, 1904; capt. Nov. 20, 1906; add. San Juan. P. R.
- ANNETT, C. F., ch. bu. communications, Canal Zone, 1905.
- ARANGO, JOSÉ AGUSTIN; Minister of Foreign Relations, Panama; prominent in securing independence of Panama; born Panama City, Feb. 24, 1841; died May, 1909.
- ARANGO, RICARDO MANUEL, civ. engr.; ch. engr., Repub. of Panama; born Panama City; grad. Rensselaer Poly. Inst.; returned to Panama as asst. engr. Panama R. R. Co.; apptd. ch. engr., Panama Water Works; apptd. Minister to London, later apptd. consulting engr., Panama Water Works; apptd. div. eng., meteorology and river hydraulics; married Maria Lewis, 1899; add. Panama City, Panama.
- ARIAS, RICARDO; Fiscal Commr. to U. S.; born May 2, 1852; son of Ramon Arias Perez and Manuela Clotilde Feraud; grad. Commer's Com. Col. Boston; supported Hay-Herran Canal treaty; negotiated monetary convention with Canal Zone and superintended issue Republic's silver coinage; received the \$10,000,000, price of the canal concession, as fiscal commr.; apptd. by Pres. Amador Secy. of Government and Foreign Affairs; was candidate for pres., but resigned.
- ARIAS, TOMÁS, supported movement for independence of Panama, and first Secy. of Government and Foreign Relations of Panama; born Panama City, Dec. 29, 1855; ed. Jamaica; apptd. deputy to Legis. Assmby. 1883; mem. Nat. Cong. at Bogotá, 1888; sub-secy. of gov. to Gov. Ay-cardi; apptd. secy. to government, 1890; apptd. senator, 1896; apptd. administrator nat. finances; deputy to Legis. Assmby, 1906-8.
- ARJONA, ARISTIDES; given chg. of the Gen. Treasury on independence of Panama; later Secy. of State and Minister of Foreign Affairs under Pres. Amador; apptd. Jus. Supreme Court in administration of Pres. Obaldia; under prov. pres. of Rodolfo Chiari was secy. of Foreign Affairs; during administration of Pres. Porras was atty. gen. and later jus. of the Supreme Court.
- AROSEMENA, PABLO, ex-Pres. of Panama; born in Panama; ed. schools there, then went to Bogotá, Colombia, taking up legal studies; grad. as lawyer at age of 17; secy. of Supreme Court; served several terms as rep. and senator for Panama; when Panama belonged to Colombia he was pres. of sovereign state of Panama; apptd. secy. to Colombian Legation in England and France, and during war between Chile and Peru was Minister to Chile, Peru and Bolivia; deputy in Panama Assembly; elected first vice-pres. of Panama.

AROSEMENA, C. C., secy. of Commn. for arbitration canal treaty, 1903; born Panama City; ed. Pitkins Eng. School, Springfield, Mass., and Williston Sem., Easthampton, Mass.; grad. Rensselaer Poly. Inst., Troy, N. Y., as civ. engr., 1891; employed by Panama Tramway Co., 1893-4; with Caribbean Manganese Co., 1894-6; in 1903 was one of the champions for the movement which resulted in the independence of Panama; asst. secy. of Foreign Affairs and later secy. Panama Legation at Washington; apptd. Minister to Washington; signed Root-Arosemena treaty; apptd. secy. of Fomento, 1911.

ASHBURN, PERCY M., maj., med. corps., U. S. A., gen. inspr., health dept., The Panama Canal; born June 28, 1872; apptd. asst. surg., Dec. 12, 1898; capt. asst. surg., Dec. 12, 1903; maj., June 24, 1908; (M. D. Jefferson Coll., 1893); add. Ancon, Canal Zone.

ASPINWALL, WILLIAM H., merchant and capitalist; born in New York City, Dec. 16, 1807. Educated at private schools. Entered mercantile house of his uncles, and became a partner in the business in 1832. Firm soon became the most important shipping firm in the U. S. In 1849 government awarded him contract for establishment of mail steamship line from San Francisco to Panama and he established Pacific Mail Steamship Co., retiring from the mercantile firm. He conceived the idea of building a railroad across the Isthmus, and associated with him in the enterprise Henry Chauncey, capitalist of New York, and John Loyd Stephens, an explorer and engineer. They obtained from the government of New Granada a contract and concession for proposed road, which was completed in 1855. The city of Aspinwall, the Atlantic terminus of the road, was named for him. In 1856 he retired from active business. Died in New York City, January 18, 1873.

AUSTIN, FREDERIC C., pres. Municipal Engineering and Contracting Co., and F. C. Austin Drainage Excavator Co., Chicago; supplied ditch and concrete mixing machinery for the Panama Canal; born at Skaneateles, N. Y., June 2, 1853; son of Dorr and Marietta Austin; ed. Skaneateles Acad.; moved to Chicago 1869, taking position as bookkeeper with his uncle, Henry W. Austin; in 1872 went to Kansas City, Mo., traveling through the West selling farm machinery; a pioneer in the manufacture of road machinery; originally of Gould & Austin Mfg. Co., afterward for many years of the F. C. Austin Mfg. Co., selling his interest in 1902, and built up business of his own; married to Anna B. Ogden (nee Barker) in May, 1887; clubs—Chicago, Chicago Athletic, South Shore Country, Western Engineering Soc., (Chicago), Circumnavigators (New York); add. Railway Exchange Bldg., Chicago, Ill.

## B

BAILY, JOHN, English engineer; in 1826-36 surveyed route for Nicaragua canal.

BALBOA, VASCO NUÑEZ de; born at Jerez de los Caballeros, Estremadura, Spain, about 1475. Little or nothing is known of his early life. In

1509 he accompanied Bastidas in his voyage of discovery, in what was known as the famous Ojeda expedition, sailing from Santo Domingo. Balboa became a planter, and was heavily involved in debt. When Enciso sailed in 1510 to join Ojeda he found Balboa a stowaway in his vessel. Balboa persuaded Enciso to sail for the Isthmus of Darien, where they founded Sta. Maria de la Antigua del Darien. There Balboa plotted against Enciso, finally accomplishing his overthrow. Enciso sailed for Spain while Balboa remained and conquered the surrounding territory, securing much booty. On Sept. 1, 1513, he began a march across the Isthmus in search of the South Sea. He had with him 190 Spaniards, among whom was Francisco Pizarro, afterward conqueror of Peru. On Sept. 25, he discovered the Pacific Ocean, and next day took possession of the ocean and all the lands bordering it in the name of the Spanish king and queen. His enemies plotted against him in Spain, and Pedro Arias de Ávila was sent to Panama as gov. In 1517 he accused Balboa of attempting to incite an insurrection, and caused him to be executed at Acla.

BARBER, CHARLES W. major U. S. A.; chief div. police and prisons, the Panama Canal; born Gloucester County, N. J., Sept. 22, 1872; apptd. 2nd lieut. U. S. Vols. Spanish-American War; promoted to 1st lieut. and capt.; commissioned 2nd lieut. in regular army 1901; promoted to 1st lieut. 1901, capt. 1911, maj. 1915; detailed to duty on Isthmus 1909, assigned to div. police and prisons; apptd. ch. div. 1912. Is member Military Order of Carabao, Army and Navy Club, Wash., D. C., and Army and Navy Club, Manila; add. Ancon, Canal Zone.

BARD, THOMAS R., ex-U. S. Senator, introduced amendment providing for tolls exemption for coastwise ships, which was dropped at the time, the consensus of opinion in the Senate being that the Hay-Pauncefote treaty permitted this; born Chambersburg, Pa., Dec. 8, 1841; son of Robert M. and Elizabeth S. (Little) Bard; grad. Chambersburg Acad. at 18 at head of class; studied law; married Mary B. Gerberding of San Francisco, Apr. 17, 1876; large interests in lands and development of oil industry in Cal.; U. S. Senator 1900-5; died Hueneme, Cal., Mar. 5, 1915.

BARRETT, JOHN, diplomatist; born Grafton, Vt., Nov. 28, 1866; son of Charles and Caroline (Sanford); grad. Worcester Acad. and Dartmouth Col. (LL.D. Nat. Univ. Bogotá and Tulane Univ.); unmarried; newspaper work San Francisco, Tacoma, Seattle, ed. *Telegram*, Portland; U. S. Minister to Siam 1894-98; made diplomatic investigations Japan, Philippines, Korea, Siberia, and India; del. Pan-Am. conf., Mexico, 1902; U. S. Minister to Argentina 1903-04; to Panama 1904-05; to Colombia 1905-06; director-gen. Pan-Am. Union since 1907; add. Pan-Am. Union, Wash., D. C.

BASCOM, JOSEPH, D., secy. treas. Broderick & Bascom Rope Co., St. Louis, Mo.; born St. Louis, Mo., July 2, 1849; son of Jonathan Dayton and Francis Ann Bascom; married Mary Frederick, at St. Louis, May 31, 1877; clubs—Commer-

- cial, St. Louis, Racquet, Mercantile, Country (St. Louis); add. 809 N. Main St., St. Louis, Mo.
- BASTIDAS, RODRIGO** de, Spanish navigator; born in Spain about 1460; organized expedition and sailed for America in 1502; discovered the Isthmus of Panama; his expedition was prior to that of Ojeda, who later coasted the line of South and Central America, and made a settlement on the Isthmus. Was wounded in a revolt and died in Santo Domingo.
- BATES, WILLIAM H.**, apptd. supt of steam-shovel repairs, Cent. div., Dec. 1, 1908.
- BAXTER, JOHN K.**, chief, div. civil affairs, The Panama Canal; add. Ancon, Canal Zone.
- BEAM, WALTER IRVIN**, b. Pa.; grad. Girard Col.; went to Isthmus Oct. 1905; apptd. Chief Clerk Central div. Canal Zone.
- BEAMAN, DON H.**, gen. storekeeper, Empire, Canal Zone; born Wash. Co., Tex., April 13, 1880; ed. pub. schools Texas; grad. law Univ. of Texas, 1900; Vol. Span.-Am. War, retired for injuries incidental to service and apptd. post qmr. sergt. U. S. A., and assigned to duty Am. Leg. Peking; resigned 1906 and employed by Bradstreet Com. Agency; resigned 1907 to enter Sou. Ry., apptd. Isthmian Canal Comm. 1908; add. Empire, Canal Zone.
- BECK, EDGAR P.**, treasurer, Canal Zone; b. Saginaw, Mich.; pub. sch. ed; entered U. S. army Jan. 1895; served 3 years; went to Isthmus 1905 as accountant; apptd. asst. treasurer 1908; apptd. treasurer 1908.
- BELDING, W. M.**, apptd. master bldr., div. of bldg. constr., 1907.
- BELL, WILLIAM H.**, surg., U. S. N., supt. hosp. Ancon, Canal Zone, 1910-13; born Milwaukee, Wis., Mar. 3, 1873; ed. pub. schools; grad. Univ. of Pa., 1897; apptd. Med. Corps, U. S. N., Sept. 16, 1898; senior surg. with battalion of marines on duty at Camp Elliott at Empire, 1904-5; served on U. S. S. *Dixie* and U. S. S. *Nevada*, and in Bu. Med. & Surgery; married Eleanor Yorke Parker, of Phila., Oct. 13, 1902; add. Navy Yard, Phila., Pa.
- BENSON, ERNEST S.**, apptd. gen. auditor, Washington Off., Isthmian Canal Commn., Apr. 27, 1905.
- BERGIN, RALPH WILLIAM**, Receiving and Forwarding Agent and Port Capt. P. R. R. and S. S. Lines; b. Ky.; pub. sch. ed.; service various R. R.'s; went to Isthmus with French Co.; entered service P. R. R. in 1888.
- BERTONCINI, C. F.**, apptd. ch. bu. map making, lithography and prints, Canal Zone, 1905.
- BEYER, W. F.**, asst. engr., lighthouse constr., The Panama Canal; add. Ancon, Canal Zone.
- BIERD, W. G.**, apptd. gen. supt. and later gen. mgr., P. R. R., Canal Zone, 1907.
- BISHOP, JOSEPH B.**, secy. The Panama Canal since Sept. 1, 1905; born Seekonk, Mass., Sept. 5, 1847; son of James Madison and Elzada (Balcom) Bishop; A. B., Brown Univ. 1870; married Harriet Hartwell of Providence, R. I., Dec. 14, 1872; on ed. staff N. Y. *Tribune*, 1870-83; ed. writer, N. Y. *Evening Post*, 1883-90; ch. ed. staff New York *Globe*, 1900-5; clubs--Univ. (New York), Metropolitan, Chevy Chase (Washington); Author, Cheap Money Experiments, 1892; Our Political Drama, 1904; Issues of a New Epoch, 1904; The Panama Gateway, 1913; add. Ancon, Canal Zone.
- BLACK, W. M.**, col. Corps of Engrs., U. S. A., in chg. of engineering staff, The Canal Zone, 1904; born Dec. 8, 1855; grad. U. S. Mil. Acad., apptd. 2d Lt. June 15, 1877; 1st Lt. March 31, 1880; capt. Dec. 31, 1886; maj. May 18, 1898; Lt. col. June 26, 1905; col. July 28, 1908; add. Army Bldg., New York City.
- BLACKBURN, JOSEPH CLAY STILES**, civil governor, Canal Zone, Sept. 1904-Dec. 1909; mem. Isthmian Canal Comm., Apr. 1, 1907-Dec. 4, 1909; born Oct. 1, 1838, Woodford Co., Ky.; son of Edward M. and Lavinia S. Blackburn; married Therese Graham, of Danville, Ky., Feb. 10, 1858 (died 1899); 2d, Mrs. Mary E. Blackburn, of Washington, D. C., Dec. 11, 1901; A. B., Centre Col. Ky., 1857 (L.L.D.); admitted to bar 1858; practiced at Chicago 1858-60; served throughout Civil War in C. S. A.; resumed practice in Ky.; mem. Ky. Ho. of Rep., 1871-5; mem. 44th to 48th Congresses (1875-85); U. S. Senate, 1885-97 and 1901-7; mem. Isthmian Canal Commn. Apr. 1, 1907-Dec. 4, 1909; del. Dem. Nat. conventions, 1896, 1900, 1904; a leader in the free coinage movement; chmn. Dem. caucus, U. S. Senate, 1906, 1907; Pres. Interstate Club; add. Versailles, Ky.
- BLACKBURN, S. E.**, magistrate, The Panama Canal since April 1, 1914; add. Balboa, Canal Zone.
- BLOUNT, F. R.**, supt. railroad transportation, Panama Railroad; add. Ancon, Canal Zone.
- BLUE, RUPERT**, surgeon-general U. S. Public Health Service since Jan. 8, 1912; born Richmond Co., N. C., May 30, 1867; son of John G. and Annie M. Evans Blue; ed. Univ. of Va., 1889-90., Univ. of Md., 1892 (D. Sc. 1909); grad. London Sch. Tropical Medicine, 1910; Internae, 1892, asst. surg. 1903, passed asst. surg. 1907, surg. 1909; served at Cincinnati, Galveston, Charleston, S. C., San Francisco, Portland, Ore., Milwaukee, Genoa, Italy, New York, Norfolk and New Orleans; was in charge of operations in eradication of bubonic plague in San Francisco 1903-4; served through the epidemic of yellow fever in New Orleans 1905; dir. sanitation of Jamestown Expn., 1907; dir. 2d campaign against bubonic plague, San Francisco, 1907-8; add. U. S. Public Health Service, Washington, D. C.
- BOGGS, FRANK C.**, major, Corps of Engrs., U. S. A., general purchasing officer, The Panama Canal, and chief of Washington office since 1908; born Swedesboro, N. J., March 16, 1874; son of George B. and Hannah G. Boggs; married Marianne Thomson, Norristown, Pa., June, 1900; grad. Norristown (Pa.) high school, 1890; grad. U. S. Mil. Acad. 1898; Q. M. Eng. Bat., Willet's Pt., N. Y., 1898-9; local charge fortification work, Tampa, Fla., 1899-00; student Eng. school, U. S. A., Willet's Pt. and Wash. D. C., and adjt. bat. eng., 1900-03; survey work and local charge fortification work, Phil. Islands, 1903-06; local charge construction lock and dam, Monongahela





BURTT, A. M., apptd. supervising architect, Canal Zone, 1905.  
 BUTLER, HENRY V., lt. comdr., U. S. N., capt. of the port, The Panama Canal; born March 9, 1874; grad. U. S. Nav. Acad.; add. Balboa, Canal Zone.

## C

CALDWELL, BERT W., phys.; born Illinois; went to Isthmus 1905; apptd. dist. phys. Bas Obispo; supt. Santo Tomas Hospital, 1911.  
 CALVO, RAOUL J., municipal treasurer, Panama; born Penonomá; ed. schools Balboa, leaving when 17 to enter business; supported Obaldia party in 1908 and apptd. mem. Consejo Electoral; clubs—Union, International; add. Ancon, Canal Zone.  
 CAMPBELL, A. I., res. engr., 1st dist. dept. of constr. and enrg., Corozal, April 1, 1909–Dec. 27, 1909.  
 CAREW, FRANK J., supt., sou. div., permanent buildings div., The Panama Canal, since Aug. 19, 1913.  
 CARPENTER, C. L., asst. engr., Culebra constr. div., 1905; apptd. res. engr., Gatun locks div., 1907.  
 CARTER, H. R., U. S. Health and Marine Hosp. Serv., ch. quarantine officer, Canal Zone, stationed at Ancon, 1904; dir. of hospitals, 1905.  
 CASAS, BARTOLOMÉ de las, a Spanish Dominican, famous as defender of the Indians; born at Seville, 1774; went to Hispaniola and accompanied Velasquez in conquest of Cuba; in 1515 went to Spain to intercede with Ferdinand in behalf of Indians; apptd. Protector of the Indians by Cardinal Ximenes, and returned to Hispaniola, 1516; returned to Spain and was received by Charles V; took Dominican habit at Santo Domingo, 1522; bishop of Chiapas, Mexico; published a history of the Indies; died Madrid, July, 1566.  
 CERON, ÁLVARO de SAAVEDRA, Spanish explorer, cousin of Hernan Cortés and follower of Balboa; suggested plans in 1529 for a canal across Isthmus of Panama.  
 CHIARI, RODOLFO, 1st v. p. Repub. of Panama, sub.-secy. finance during administration Pres. Obaldia, later mgr., govt. bank City of Panama; born Aguadulce, prov. Coclé; ed. pub. schools; municipal treas. Colon; rep. prov. Coclé first nat. conv.; municipal treas. dist. Panama; tendered but declined secy. finance by Pres. Mendoza; elec. 3d designado, 1910.  
 CHOATE, JOSEPH HODGES, diplomatist and lawyer; born Salem, Mass., Jan. 24, 1832; ed. Harvard; (LL.D. Amherst, Harvard, Cambridge, Edinburgh, Yale, St. Andrew's, Glasgow, Williams, Pa., Union, McGill; D. C. L. Oxford); married Carolina Dutcher Sterling, 1861; mem. com. of 70 that broke up Tweed ring, 1871; ambass. to Great Brit. 1899–05, and assisted in negotiation of 1st and 2d Hay-Pauncefote treaties; long career as author, speaker, lawyer, and publicist; add. 60 Wall St., N. Y.  
 CLARK, F. C., apptd. asst. engr. operating machinery, Culebra, 1909.

CLARKE, ERNEST W., apptd. res. engr., bu. waterworks, sewers and roads, Colon, 1905.  
 CLAYTON, JOHN MIDDLETON, secy. of state under Taylor, Mar. 1849 to July 1850; negotiated and signed Clayton-Bulwer treaty; born Dagsboro, Del., July 24, 1796, died Dover, Del., Nov. 9, 1856; grad. Yale 1815; mem. Del. assembly, sec. state of Del., U. S. Senator 1829–36, chief justice Del. 1837–39, U. S. Senator 1845–49, 1853–56.  
 CLEAR, THOMAS L., collector, accounting dept., The Panama Canal, since Apr. 1, 1914; and apptd. asst. auditor, Canal Zone, Sept. 12, 1908; born Wash. D. C.; ed. Wash. schools; grad. Columbian Univ. Wash.; entered gov. service Feb. 1900; in Dept. Interior; employed by S. F. R. system, 1902–8; married Nov. 29, 1892, Laura Virginia Cronise; add., Empire, Canal Zone.  
 COALE, THOMAS E., pres. Thos. E. Coale Lumber Co., Phila., Pa.; shipped great quantities of lumber to the Canal; born Catonsville, Md., May 19, 1865; ed. pub. schools; married Nannie M. Coale Nov. 20, 1890; clubs—Racquet, Delaware River Club; add., Franklin Bank Bldg., Phila., Pa.  
 COLE, HARRY O., res. engr., 1st dist., Pacific div., The Panama Canal, since 1911, in chg. locks, dams and dry excavation; born Morgantown, W. Va.; grad. W. Va. Univ. 1898; office eng. in chg. of designs, Pacific div., 1908–09; asst. engr. 3d dist., 1909–11.  
 COLLINS, LORIN C., judge, apptd. justice supreme ct., Canal Zone, June 21, 1905; died Sept. 27, 1912.  
 COLON, BARTOLOMÉ, brother of Christopher Columbus; born, probably in Genoa, about 1445; in 1488 visited England to interest Henry VII in the scheme of his brother, but met with no success. Returning to Spain he followed the second voyage of his brother with a fleet carrying supplies, arriving at Isabella in June 1493. The admiral made him Adelantado, and from 1496 to 1498 he governed the island during his brother's absence. Founded Santo Domingo in 1496. In 1500 Bobadilla sent him a prisoner to Spain, where he was finally released. He was with his brother on his fourth voyage, 1502–04, and was the leading spirit when active work was to be done. In 1509 he accompanied Diego Colon to Hispaniola, where he held many important and lucrative offices. Died at Santo Domingo, May, 1515.  
 COLON, DIEGO, son of Christopher Columbus; born probably at Lisbon, about 1476; Queen Isabella made him a page at Spanish court in 1492 where he remained until after his father's death; in 1520 he was confirmed as admiral of the Indies, and Gov. of Hispaniola, but without the title of viceroy. He arrived at Santo Domingo, July 10, 1509. Velazquez, whom he sent to conquer Cuba, threw off his authority. In 1523 he was recalled to Spain to answer charges which had been made against him, but was never brought to trial. Diego Colon apptd. Balboa gov. of Tierra Firme. He died at Montalvan, near Toledo, Feb. 23, 1526.  
 COLON, LUIS, Duke of Veragua and Marquis of Jamaica; born in Santo Domingo in 1521; son

- of Diego Colon, and grandson of Christopher Columbus; in 1536 relinquished all claim to title of viceroy, and in return was created Duke of Veragua; in 1530 was imprisoned for having three wives, and was banished to Oran, Africa, where he died.
- COLUMBUS, CHRISTOPHER (CRISTÓBAL COLON)**, discoverer of America; born Genoa, 1446, died Valladolid, Spain, 1506; discovered Isthmus of Panama, 1502.
- COMBER, WILLIAM GEORGE**, res. engr., div. dredging, dept. Operation and Maintenance, The Panama Canal; born London, Eng., Sept. 14, 1855; ed. pub. schools there; removed to U. S. 1883; asst. engr. in charge of dredging div. on Mississippi River, 1898; asst. engr., in charge of gen. survey of Mississippi River, 1902; apptd. res. engr., Cristobal div., Canal Zone, 1905; div. engr. La Boca, 1907; chmn. bd. steamboat insp. service, Canal Zone, Nov. 12, 1909-Apr. 25, 1913; married Hattie Belle Gilbert; add., Paraiso, Canal Zone.
- CONCHA, JOSÉ VICENTE**, diplomat; secy. of war of Columbia, Minister to U. S., 1901-02; formulated draft of treaty for transfer of French canal company's property to U. S. and cession of Panama canal zone to U. S.
- CONNOR, M. E.**, physician, health officer of Panama, The Panama Canal; add., Ancon, Canal Zone.
- COOKE, FREDERICK H.**, civ. engr., U. S. N., designing engr., Dept. Operation and Maintenance, The Panama Canal, since Jan. 2, 1912; born Mar. 11, 1879; commd. U. S. N., Jan. 1, 1904; add., Culebra, Cana. Zone.
- COOKE, TOM M.**, apptd. coll. revenue, Canal Zone, 1904.
- CORCORAN, A. T.**, apptd. gen. foreman, in chg. locomotive dept., mech. div., Canal Zone, 1910.
- CORNISH, L. D.**, apptd. designing engr., dept. lock and dam constrn., Culebra, 1907; apptd. to Washington Off., Isthmian Canal Commn., Sept., 1905; born Lee Centre, N. Y.; grad. Syracuse Univ., with degree of C. E.
- CORNTHWAITE, H. G.**, asst. chief hydrographer, The Panama Canal; add., Culebra, Canal Zone.
- CORSE, W. B.**, res. engr., first dist., Pacific div., Canal Zone; died 1911.
- COSA, JUAN de la**, Spanish navigator; date of birth unknown; was pilot of Columbus on his first voyage of discovery; made five voyages to coast of South America, 1499, 1500, 1504, 1507, and 1509; was killed by Indians near Bay of Cartagena, Nov. 1509; his map of the world, made in 1500, is the oldest known. It is now the property of the Spanish Govt.
- CRAIG, JAMES G.**, apptd. July 16, 1909, senior traveling engineer, The Panama Canal and P. R. R.; born Atlanta; went to Panama as loco. engr., 1905.
- CROMWELL, WILLIAM NELSON**, late general counsel of New Panama Canal Co., of France, and chief negotiator in transfer of Panama Canal to U. S.; born 1854; son of Col. John Nelson Cromwell; L. L. B., Columbia, 1876 (LL.D. Kenyon Coll. 1904); senior of law firm, Sullivan and Cromwell; specialty is corporation law; organized, 1899, National Tube Co. (capital \$8,000,000); since then many other corporations; apptd. assignee and reorganized Decker, Howell & Co., 1890, N. P. R. Co., and later Price, McCormick & Co., which had failed for several millions, and many others, and put all on paying basis; was officer or counsel of more than 20 of largest corporations in U. S., and one of organizers of U. S. Steel Corpn.; for several years represented New Panama Canal Co. in negotiations at Washington, Paris, Panama and Bogotá; dir. Am. Bank Note Corpn., Mercantile Nat. Bank, N. Y.; trustee Am. Surety Co. of New York; clubs—Lawyers', Union League, Metropolitan; summer home Seabright, N. J.; res. 12 W. 49th St., New York; office 49 Wall St., New York, N. Y.
- CROWLEY, D. E.**, resigned as supt. of constrn., Empire dist., Central div., May 11, 1910.
- CUMMINGS, E. E.**, master mech., Gorgona shops until June 1909.
- CURL, HOLTON C.**, Surg. U. S. N., supt. Colon hosp., 1905; add., navy yard, Mare Island, Cal.
- CUSHING, CALEB**, American diplomat; born Salisbury, Mass., 1800; died Newburyport, Mass., 1879; member Congress 1833-43; judge sup. court Mass., 1852; atty.-gen. U. S., 1853; counsel for U. S. in Alabama claims; nom. chief justice of U. S., 1874, but not confirmed; minister to Spain, 1874-77; went to Bogotá, 1869, and assisted in negotiation of treaty for Isthmian Canal; treaty not ratified.

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- DAMPIER, WILLIAM**, English freebooter; born Eng. 1652; was with Captain Sharp when that freebooter attempted to capture Panama. In 1685 he led an expedition across the Isthmus to lie in wait for the treasure fleet. It resulted in failure, and he then turned to attack Leon, Nicaragua. There he met with no better success. He circumnavigated the globe four times. Died, London, 1715.
- DARLING, SAMUEL T.**, physician; apptd. to Isthmus Feb. 28, 1905, prof. duties included interne, physician, pathologist and ch. of laboratory; native of Harrison, N. J.; grad. Coll. Physicians and Surgeons, Balto., 1903; res. pathologist of City Hosp. in Baltimore, and instructor in Histology and Pathology, Coll. Physicians and Surgeons, Balto., 1903-5; pres. Canal Zone Medical Assn. 1907; married Miss Llewellyn of Charlottesville, Va., 1905.
- DAUCHY, WALTER E.**, apptd. div. engr., dept. of constrn., Canal Zone, 1904.
- DAVIS, CARLETON, E.**, engr. in charge of waterworks, sewerage, Canal Zone, 1904; apptd. ch. bu. waterworks, sewerage and roads, Canal Zone, 1905.
- DAVIS, GEORGE W.**, major general, U. S. A., mem. Isthmian Canal Commn., 1904-5; chmn. bd. of consulting engr. on type of Panama Canal, 1905-6; born Thompson, Conn., July 26, 1839; son of George and Elizabeth Grow Davis; married Carmen Atocha of Washington, Apr. 30, 1870; ed. Nichols Acad. Dudley, Mass., and State Normal Sch. New Britain, Conn.; served



Medal of honor presented to canal employees who gave two years' continuous service.

