

oxide of manganese and granulated carbon, equal parts mixed. It can be used in a Leclanche battery. 3. What can I put in a kettle to keep it from rusting? A. Try carbonate of soda.

(5142) M. B. P. asks: 1. With a dynamo storage battery and motor, what percentage of the power put into the dynamo can be delivered by the motor? A. 75 per cent. 2. What percentage could be delivered by the motor a week after the battery had been charged? A. In a good battery the percentage of loss would be small. Probably not more than 2 or 3 per cent. 3. What are the limits of the capacity of storage batteries in amperes and volts and how determined? Are storage batteries made capable of storing the electrical current developed by 30 actual horse power? If so, for how long a time could they store such a current constantly running into the battery? A. The size and number of the plates limits the current capacity, and the number of cells in series controls the voltage, each cell being equivalent practically to 2 volts. The voltage is determined by a voltmeter. There is no difficulty in storing current equivalent to 30 horse power. The batteries will contain a working charge for two or three months with a slight loss.

(5143) E. E. W. asks how to color lantern globes green, also blue and red, and what to use for colors. A. The simplest way to accomplish this is to purchase the colored lacquers from dealers in painters' supplies. If you find this inefficient, you might use rather thin shellac varnish, colored with aniline dyes. For additional information see our Cyclopaedia of Receipts.

(5144) O. D., J. E. Z., and others ask for a remedy for freckles. A. We reprint a note from the SCIENTIFIC AMERICAN for February 13, 1892, in regard to freckles: Some people are born freckled and others have freckles thrust upon them. The former class might as well accept their freckles as a dispensation of Providence, for nothing can be done for them. The latter can always get rid of their affliction by using a couple of drachms of sal ammoniac with an ounce of German cologne, the solution mixed with a pint of distilled water. Applied two or three times a day, states one of our contemporaries, it will cure the worst case of acquired freckles on record. Freckles are caused by the action of sunlight on the coloring matter in the skin.

(5145) R. T. K. asks: Will you kindly let me know, through the columns of your paper, something of the difference in the power required to tow a barge when drawn close to stern (so as to almost touch) of tug, or when let out with cable so as to be considerable distance apart? That is, what are the effects of the currents caused by the propeller of tug (and hull also) on the barge when the barge is close up? And when side wheels are used instead of screw? A. While no exact figures can be given, the fact is well known in the towing business that the current set back by the wheel of a tug boat directly against the bow of a barge close behind somewhat neutralizes the power of towage. Hence all stern towing is done with long hawsers, or alongside. With side-wheel tow boats, the back thrust of water from the wheels to a single barge directly astern is not so great as with a propeller; yet it is enough to prevent the practice, except where necessary by narrow and crooked channels.

TO INVENTORS.

An experience of forty-four years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 361 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

June 6, 1893

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these Patents.]

Table listing inventions such as Acid, naphthylene-diamine disulpho, M. Hoffmann; Advertising or other illuminating effect, H. F. Simon; Air compressing device, T. O. Perry; Amalgamator, hydraulic, R. J. Kennedy; Animal trap, J. Alexander; Animal trap, M. Burton; Antirust linings or facings, composition for attaching, K. W. Hedges; Apparel, fastening for wearing, A. Fiske; Axle lubricator, car, W. H. Daniels; Axles, machine for bending cranks, P. Gendron; Baby walker, A. Parnell; Baling machine, J. C. Cornelius; Baling press, G. W. Driggs; Bearing and its support, J. H. Cooper; Bearing roller, S. Garwood; Bearing spindle, J. H. Cooper; Beds, adjustable head and back rest for, P. A. Saum; Bedstead, Cooke & Shaw; Bell, kong, J. C. Wells; Belt clamp, or for rollers, S. H. Bunker; Bicycle, W. I. Bunker; Bicycle, G. Harriott; Bicycle, F. C. Rockwell; Bicycle handle, G. B. Goddard; Bituminous substances, apparatus for treating or reducing, J. B. Japline; Bleaching cotton, C. J. Leleseluse; Boiler; See Steam boiler; Boiler cleaner, automatic, J. J. Miner; Boiler furnace, W. L. Teter; Bolt machine attachment, eye, Colhower & Grossmann; Book and diary, expense account, D. Geraldine; Book, sales or order, S. Shoup; Boot or shoe sole, P. Pouts & Bail; Boring machine, B. Lobe; Bottle filling device, J. H. Stallings; Bottle washer, C. W. Hamann; Bowling alley ball retainer, J. H. Winn; Box; See Call box; Cigar box; Hat box; Match box; See Dredge box; Brake; See Car brake; Vehicle brake; Wagon brake; Bridge, C. L. Strobel; Buckboard, C. Thomas; Building, Thompson & Ball; Burner; See Oil burner; Stove burner.

Table listing inventions such as Bust pad, M. M. Parrell; Butter extractor, centrifugal, A. Wahlin; Button, Swain & Conner; Cake cutter, U. D. Seltzer; Calipers, J. C. Reinmann; Callipers, micrometer, W. Parson; Call box, electrical, W. F. Banks; Camera shutter, W. F. Torrey; Cap making machine, Norton & Leavitt; Can winker, adjustable automatic, Knoecker & Ringer; Car brake, O. W. Veau; Car coupling, J. W. Dyer; Car coupling, W. N. Hall; Car coupling, L. S. Mann; Car coupling, J. B. E. Tittle; Car coupling, F. B. Woodman; Car coupling, J. Zehneck; Car heater, W. C. Baker; Car heater, Fitzgerald & Barry; Car platform holder, E. M. Gurnee; Cars, anti-friction side bearing for, J. Jessen; Cars, mechanism for transmitting power from car wheel axles to dynamo within the motor; Carpet stretcher, W. Harvey; Cartridge, C. E. Overbaugh; Cartridge shell, C. E. Overbaugh; Case; See File case; Match and ticket case; Cash register, T. Carroll; Cash register, E. P. Holly; Centrifugal runner mill, G. A. M. Arnaud; Checkrein loop, F. H. Towne; Chuck, drill, G. W. Kinser; Chuck, lathe, A. Weatherby; Cigar box, O. Kunzell; Cigar machine, W. H. Butler; Cigarette, W. H. Butler; Cigarette machine, W. H. Butler; Clamp; See Belt clamp; Electric conductor clamp; Clamp, C. A. Forsberg; Cleaner; See Boiler cleaner; Dish cleaner; Well cleaner; Clock escapement, H. Rempe; Clock case; See Earth closet; Water closet; Cloth tenting machines, selvaige guide for, J. C. Whittles; Clothes pin, E. B. Webber; Clutch, G. G. Luders; Clutch for electric motors, friction, O. Dahl; Coin detector, E. H. Cook; Column, N. Poulson; Column, wrought iron or steel, Poulson & Eils; Comb making machine, J. H. Wells; Concrete walks, etc., method of and apparatus for forming, Brown & G. Mayhew; Condenser, electrical, Stanly, Jr., & Tobey; Conveyor, J. W. Nethery; Conveyor, spiral, B. F. Radford; Cooler; See Water cooler; Core support, E. R. Gobier; Corn splitting machine, R. B. Poindexter; Coupling, car coupling; Hose coupling; Wire coupling; Creamer and butter extractor, centrifugal, A. Wahlin; Creamer, centrifugal, S. C. Hauberg; Cultivator, J. R. Finney; Cultivator, P. C. Vann; Curling iron, H. P. Myers; Cutter; See Cake cutter; Potato cutter; Stone cutter; Dental furnace, J. H. Downie; Derrick, W. A. Ross; Desk, adjustable, R. W. Ryan; Desk attachment, A. K. Nett; Detector; See Coin detector; Digger; See Potato digger; Dish cleaner, C. Palmleaf; Dividers, C. A. Strand; Dredge frame, F. J. Smith; Dredging machine, by traction, J. M. Robbins; Dress protector, E. Lester; Drill; See Grain drill; Drill shoes, manufacture of, W. A. Van Brunt; Driving mechanism, J. W. Kenevel; Dye, blue substantive, Bammann & Ulrich; Dye, blue tetrazo, Bammann & Ulrich; Dyeing frame, E. Keuser; Dynamometer, H. C. Behr; Earth closet, K. I. Passover; Egg holder, A. A. Anderson; Electric conductor clamp, A. H. Englund; Electric illuminating apparatus, E. A. Colby; Electric illumination, E. A. Colby; Electric machine, dynamo, W. S. F. Dillon; Electric signal and protective system, C. E. Ongley; Electrical switch, J. Les Brisay; Electro-grammatic machine, O. Dahl; Electro-motive device, R. Callender; Electrolytic apparatus, T. Craney; Electrolytic cell, T. Craney; Elevator, H. Schibbaum; Embroidering machine, G. Baum; Engine; See Locomotive engine; Pumping engine; Road engine; Steam engine; Traction engine; Engines or boilers, grease arrester for steam, J. F. Traver; Evaporating apparatus, S. M. Lillie; Excelsior machine, B. Kane; Exhibitor, best, A. K. Brdman; Extractor; See Butter extractor; Cream and butter extractor; Fastener, N. G. Franklin; Faucet, R. Hagen; Faucet attachment, R. Hagen; Fence post, R. W. Johnson; File case, R. T. Brown; File holder or drawer, D. A. Alden; Filter, water, W. B. Benham; Firearm, magazine, J. M. Browning; Firearm, magazine catch for magazine, J. M. & S. Browning; Fire escape, T. J. Venema; Fire extinguisher, bucket and tank, A. G. Leonard; Flasks, bottles, etc., fitting for, T. C. Hudson; Fur, carotizing, H. F. Dietz; Fur scarfs, head for, M. Cohen; Furnace; See Boiler furnace; Dental furnace; Gas furnace; Glory-hole furnace; Tobacco curing furnace; Furnace, J. L. Giroux; Furnaces, water heating attachment for hot air, J. E. White; Gauge; See Pin gauge; Game apparatus, J. J. Frey; Game apparatus, S. Robbins; Game apparatus, E. L. Williams; Game apparatus, M. M. Wilson; Garbage bucket, A. R. Miranda; Garbage receptacle, J. C. Roth; Garment supporter pulley, G. E. Adams; Gas furnace, H. D. Monachesi; Gas generating apparatus, W. T. Bate; Gas machine, J. S. Wood; Gas mixer, fuel, W. G. Taylor; Gas regulator, M. G. Reynolds; Gas regulator for calcium lights, J. Von Ey; Gas retort charging apparatus, Arrol & Foulis; Gas retort apparatus for stirring and drawing; W. Foulis; Gas scrubber and purifier, W. T. Bate; Generator; See Steam generator; Glass tanks or boxes, manufacture of, J. Armstrong; Glassware, manufacture of, T. B. Atterbury; Glassware, tool for the manufacture of, T. B. Atterbury; Glory-hole furnace, A. Thompson; Glove, G. M. Cluze; Grading and ditching machine, C. B. Taylor; Grain drill, W. G. Lawrence; Gridiron, etc., H. D. Monachesi; Grinding mill, feed mechanism, H. H. Ring; Guard; See Window guard; Gun barrels to the stocks, means for separately attaching, W. Mason; Hammer hook, A. B. Rosson; Hammer, steam, C. Deyherle; Handle for shovels, forks, etc., W. McLaughlin; Hanger; See Whip hanger; Harness checking attachment, W. Loser; Harvester, elevator, M. Kane; Hat box or case for traveling purposes, S. Malo; Hat rack, W. M. Pogram; Hay rake, horse, M. A. Todd; Heat by combustion of fuel, generating, W. L. Teter; Heater; See Car heater; Tan liquor heater; Hobby horse, A. T. Godbe; Hook; See Name hook; Hook, N. Isachson; Hook, W. T. Bate; Horseshoe blank bending machine, J. D. Billings; Hose coupling, P. H. Dencker; Hose fastener, R. Franken; Indicator; See Note indicator; Injector, locomotive, S. M. Vauclain; Inkstand, P. B. Myers.

Table listing inventions such as Insecticide, E. & E. H. Schloesing; Insulated conductor, T. F. Attix; Iron; See Curling iron; Iron and loading same into wagons, machinery; Leader, E. M. Murray; Lamp, electric glow, E. A. Coiby; Lamp electrode, electric arc, S. Heimann; Lamp, incandescent electric, A. De Lodyguine; Lamp post, Z. T. Hobbs; Laminated and key holder therefor, Bail & Metzger; Lantern, C. T. Ham; Larder, window, J. Ponsi; Lathe driving mechanism, F. H. Crafts; Lead, crayon, or other holder, A. Fornander; Lock; See Penetration lock; Locomotive engine, compound, S. M. Vauclain; Locomotive tenders, water supplying device for, H. R. Winkelmann; Loom pattern mechanism, G. F. Hutchins; Loom stopping mechanism, H. E. Hamilton; Lubricator; See Airie lubricator; Lubricator, J. Clark; Lubricator, Finrock & Veessenmeyer; Lubricator, E. McCoy; Lubricator, C. W. Sherburne; Mains, coupling and valve for water or gas, A. J. Sangster; Match and ticket case, combined, C. W. Beaman; Match box and cigar tip cutter, combined, J. W. Mailot; Match packing machine, G. Grisel; Measuring machine, cloth, F. F. C. Chevron; Metal bending machine, C. Cunningham; Metal shapes, forming true sharp corners on, F. P. Howe; Metal working, E. E. Ries; Metals and alloys, composition for the purification and separation of, J. A. Frey; Milling die for manufacturing, F. H. Heath; Mill; See Sawmill; Motor; See Water motor; Music rack, R. Binns; Musical instrument attachment, J. W. Long; Necktie, G. E. Miller; Needle, J. W. Widler; Nut lock, Reed & Reitz; Nut lock, J. B. Woods; Nut wrench, J. Geisler; Oil burner, J. Barrow; Oil refining vegetable, G. W. Scollay; Oil, treating, cold, G. W. Scollay; Orator, C. E. Seymour; Orkan, J. Polukians; Paper and fixture therefor, rolled, O. H. Hicks; Paper, apparatus for heating size for surfacing, W. C. Edwards; Paper box machine, F. D. Harper; Paper cutting machine, feeding device for, F. D. Harper; Paper creasing machine, J. T. Robinson; Paper making machine, A. W. Case; Pearl, etc., device for cutting, Orth & O'Donoghue; Penmanship, device for assisting, J. D. McMeen; Perfuming cabinet of and apparatus for electric, D. M. & J. H. Garnett; Perfume essences, extracting, E. Watel; Permutation lock, L. E. Schneider; Piano action, S. R. Perry; Picture holder, F. A. Becker; Pin, for fastening, E. W. McCreary; Pin; See Clothes pin; Pin gauge, A. Pieczka; Pipe burr removing implement, H. Comstock; Pipe joint, R. T. Bells; Piston, S. M. Vauclain; Planter, corn, A. J. Fisher; Planter, corn, J. P. Devereux; Planter, seed, T. J. Hathaway; Pocket knife, V. Slater; Post; See Fence post; Lamp post; Potato cutter, L. A. Aspinwall; Potato cutter, L. & W. B. Dunn, Jr.; Pottery, moulding, J. Schellhorn; Press; See Baling press; Printing press; Pressure regulator, Unger & Krug; Printer's lock-up, C. Jesinghaus; Printing machine, label, N. M. P. Close; Printing in cotton, G. Donald; Printing press, G. G. G. & A. C. Sargent; Printing roll, Engel & Koob; Protector; See Dress protector; Prunes or plums, machine for pricking, Burrell & Doidge; Pump, J. W. Grewory; Pump, single-cylinder double-acting force, W. L. Hopper; Pumping engine, H. Denney; Punch, hand, W. Carey; Rack; See Hat rack; Music rack; Radiator for heating buildings, W. C. Baker; Radiator, hot water heat, G. W. Hawes; Rail cleaning brush, street, J. A. Gowans; Rail joint, non-interlocking, F. H. Heath; Rail tie and chair, combined, Howard & Eagan; Railway apparatus, cable, W. T. Smith; Railway chair, F. C. Weir; Railway, overhead electric, J. C. Henry; Railway rail joint and fastening, P. P. Smith; Railway signal, J. W. Stearns; Railway signal, Stewart & Watson; Railway signal, automatic, Hartman & Baker; Railway tie, W. W. Whitaker; Railway tie, metallic, C. Worden; Railway track, J. Murnane; Railway trolley, conduit, M. E. Smith; Railway trolley, electric, J. J. Griffin; Railway trolley, electric, G. W. Hooper; Railways, audible signal for, Hartman & Baker; Railways, automatic signal for street, Hartman & Baker; Railways, closed conduit for electric, C. J. Kint; Railways, electric signaling apparatus and system for, J. W. Lattig; Rake; See Hay rake; Range combined cooking and water heating, A. P. Broome; Register; See Cash register; Regulator; See Gas regulator; Pressure regulator; Retort jacket, W. L. Teter; Rheostat, E. R. Knowles; Rifle sight, duplex telescope, L. C. Cummins; Rings, manufacture of, J. Bonner; Road engine, W. C. Oast; Roasting, coffee, G. H. Blake; Roofing, metallic, W. R. Kinnear; Salts, electrolyzing, T. Craney; Sandpapering machine, Doane & Sofze; Sash fastener, J. M. Porter; Sash, window, Ralph & Toach; Sash, window, green and storm, C. F. Wise; Sawmill, band, J. E. & C. M. Emerson; Scraper, P. Unsinger; Scraper, wheeled, F. A. Rathbun; Screen; See Window screen; Screw cutting implement, R. Bowman; Screw making machine, B. F. Wheeler; Shelf support, S. A. Smith; Shield, armpit, M. J. Butler; Ship, apparatus for determining the bearing and course of, A. E. Baker; Shock compressor, S. C. French; Shoe, T. W. Bunker; Sign board, F. H. Gray; Sign plate, embossed, A. Winkler; Signal; See Electric signal; Railway signal; Time signal; Signal apparatus and system, electric, J. W. Lattig; Signal, non-interlocking, C. E. Ongley; Skat roller, C. Stora; Small arms, ejector for drop-down, C. H. Malcham; Smoke consumer, T. T. Beckett; Smoke consuming furnace, H. C. Metz; Soap for removing hair from the skin, J. Melander; Sodawater fountains, draught tube for, G. W. Sample; Spindle, W. A. Chandler; Spindle, J. P. Kelly; Spinning and doubling yarns, apparatus for, J. W. Lattig; Spinning spindle mount, H. D. Klotz; Spring motors, device for winding, S. Baker; Sprinkler; See Thermostatic sprinkler; Sprinkler, C. E. Piper; Sprinkling device for traveling bands, C. McDowell; Stamp mill guide, E. Major.

Table listing inventions such as Stanchion, Scoville & Genung; Steam boiler, T. C. Best; Steam boiler, C. C. Peck; Steam engine, C. F. Christopher; Steam engine, J. R. Maxwell; Stone cutter, L. C. Trent; Stone cutting machine, G. Thomas; Stool, convertible, Graham & Curtis; Stove, H. Tilden; Stove burner, gas, A. Weiskittel; Stove, cooking, A. Loewenthal; Stove, heating, J. R. Hummel; Stovepipe airing and drying rack, Batters & Dugan; Sulky racing, T. Harrington; Switch; See Electrical switch; Syringe, G. Day; Table; See Kitchin table; Tan liquor heater, F. Guk; Telegraphic apparatus, copying, S. P. Denison; Telemeter systems, electrical transmitter for, C. W. Ayton; Telemeter systems, receiver for, C. W. Ayton; Telephone, R. M. Harrison; Telephone, R. M. Harrison; Telephone handle or holder, B. M. Wilkerson; Telephone switchboard annunciator, F. H. McBERTY; Thermostatic sprinkler, R. Wood; Thrasher, traveling, B. Holt; Thread cabinet, F. A. Goodridge; Thread cabinet, machine for making metal, Peck & McPherson; Time signal, electric, G. W. Van Vliet; Tire, pneumatic, W. C. Fisher; Tire, pneumatic, F. W. Huestis; Tire, pneumatic, L. J. Phelps; Tire tightener, J. A. Asford; Tobacco curing furnace, E. P. Phelps; Toe weight, J. H. Hodgkins; Torpedo placer, G. E. Hopkins; Traction engine, B. Holt; Trap; See Animal trap; Trolley stand, J. R. Griffiths; Trolley wire curve, R. H. Hunter; Trolley wire finder, J. Chase; Trolley wire support, C. Peterson; Trousers, W. L. Birnbaum; Tunnel building apparatus, S. I. Morris; Turning crank pins, machine for, H. W. Chapman; Typewriting machine ribbon guide, G. F. Stillman; Umbrella stick, F. H. Howe; Valve, W. G. Nelson; Valve controlling mechanism for motors, H. Eichbaum; Valve for compound engines, starting, S. M. Vauclain; Valve gear, Good & Petsche; Valve, safety, A. Lohbieler; Valve, safety, E. H. Lunken; Vamp throating and marking machine, Stewart & Brewer; Vamp throating machine, C. H. Cushman; Vehicle brake, N. E. Bradford; Vehicle, self-loading, G. F. Fischer; Vehicle spring connection, S. R. Bailey; Velocipede brake mechanism, Selden & Chamberlain; Velocipede or bicycle, C. Kromer; Vending machine, C. G. Gray; Wagon brake, L. E. Lane; Wagon, postal, B. Arnold; Wagon, tower, J. S. Mill; Wardrobe, folding, W. B. Manning; Washer; See Bottle washer; Washing machine, C. G. Gray; Washing machine, J. H. Jones; Washing machine, L. Klima; Washing machine, G. M. Miller; Water closet, J. A. Umpleby; Water closet seat, L. Lipp; Water cooler, L. S. Saddington; Water crane, A. Scheidt; Water elevators, steam or air connection for, H. R. Winkelmann; Water motor, R. M. Shaffer; Water wheel bucket, F. Von Leicht; Water wheel or motor, J. W. Kales; Water wheel, steam, E. G. & A. C. Sargent; Well or cistern cleaner and water purifier, W. S. Barker; Well rig, oil, S. R. Sheakley; Wheel; See Water wheel; Whip hanger, H. Weed; Window, J. Brudon; Window guard, J. G. Meyer; Window screen, Z. Loudenbeck; Window screen, pocket, C. L. Wagandt; Wire coupling, J. Bowine; Wire fabric machine, P. Tourasse; Wood polishing compound, W. E. Rohner; Woodworking machine, F. G. & A. C. Sargent; Wrapping machine, C. R. Schilling; Yoke, carriage clip, W. J. Kaufmann.

DESIGNS.

Table listing designs such as Barometer frame, H. L. Ayer; Buckle, C. L. Ziegler; Can, W. C. Winfield; Carpet grip, H. H. Warren; Coffin plate, F. Ratcliff; Cutlery handle, C. F. Smith; Depurator, J. F. Hartz; Drinking glass, E. J. Rauchfuss; Flag, J. Terhune; Furnace, E. Beecher; Pencil lead, B. Goldsmith; Scarf, M. O. Roberts; Spoon, Jamaica; Versehuur; Spoon, W. H. Toney; Spoon, etc., W. H. Toney; Spoon or fork handle, R. N. Oakman; Toothpick case, H. W. Bingham; Trimming, Miller & Barton; Work table, C. M. B. Boller.

TRADE MARKS.

Table listing trade marks such as Anesthetic, Hale Dental Co.; Baking powder, W. D. Cleveland & Co.; Bearing metal, Fairbanks Company; Backing for polishing leather, H. J. S. Keyser; Brushes, tooth, Florence Manufacturing Company; Buttons, clasps and spring fasteners for wearing apparel and gloves, Consolidated Fastener Company; Canned vegetables and fruits, B. S. Janney, Jr., & Co.; Canned vegetables, including corn, Delafield, McGovern & Co.; Cocks and faucets, J. Comity; Cosmetics, Wakelee & Company; Flour, L. A. Wright & Co.; Harness for horses and other draught animals, F. O. Bailey & Co.; Horse rasps, Heller & Bros.; Horseshoe nails, New Process Nail Company; Leather, belt and lace, Bay State Belting Company; Medicine and pharmacy, chemical substances prepared for use, W. D. Cleveland & Co.; Mineral waters, natural, Victoria Mineral Water Spring Company; Perfumery, soaps, and cosmetics, Foote & Jenks; Photographing, artists' paper used for, Diamond Aristocrat Co.; Printing presses, perfecting, Duplex Printing Press Company; Remedy, catarrh, F. C. Fowler; Remedy for eye troubles, A. P. Roth et al.; Remedy for man and beast, external, X-Zalia; Medicine Company; Suspenders, belts, shirts, and drawers, L. H. Day; Threads for machine and hand sewing, Kerr Thread Company; Underwear, ribbed, Lewis Knitting Company; Wash for the prevention and cure of sexual diseases, W. D. Mann; Waterproofed hollow leather, known as indurated, United Indurated Fiber Company of New Jersey; Whiskey, brandy, gin, rum, sherry, port, madeira, and liqueurs, T. Allen & Co.

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 25 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway, New York.

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