

ORDER BY MAIL All Sizes 3 PAIR FOR \$1.00

The Famous Hosiery Which is Superior to All Others FOR WEAR.

Send Postal for Illustrated Booklet 10c. extra for Mailing Each Three Pairs

Men's Women's and Children's

Never Surrender Hosiery

ALL WEIGHTS AND KINDS COTTON OR LISLE THREAD

Order for the entire family

BARNARD, SUMNER & PUTNAM CO. Worcester, Mass.

For 62 years one of the Leading Dry Goods Stores in New England

The Apple AUTOMATIC

For Gas Engines, Launches, Automobiles, etc.

No more belt, battery and commutator troubles. Dirt and waterproof. Easily attached. Increases power and speed. Send for full particulars on our brilliant apparatus.

The Dayton Electrical Mfg. Co. SPARKER 55 Reibeld Bldg., Dayton, Ohio.

THE AUTOMOBILE BARGAIN HOUSE

Largest in the world, 10,000 feet of floor space, crowded with new and slightly used autos; 55 now owned by us; 25 here to be sold on commission. Several parties going to Europe have offered splendid machines for quick cash very low. Autos \$125 to \$3,500. Oldsmobiles, Knox, Locomobiles, U. S. Runabouts, Stanhopes, new; Mobile Des-a-dos, \$250 up. Electrics of all makes; Columbia, American, and Waverly, \$150 up. All kinds delivery wagons and buses; Electric, Gasoline and Steam, Daimlers, Packards, French Racing Auto, Searchmont, Caillacs, and Northons, \$50 to \$1,200; \$8-50 Mors, like new, \$3,500. Many others; call or send for list. Autos sold for owners on five per cent. commission.

MANHATTAN STORAGE CO.
332-342 West 44th Street, New York, N. Y.
Ten doors east of Ninth Avenue. Two blocks from 42d Street station. Open evenings. Telephone, 4286-35th

FLEXIBLE GRIP-CHAIN DRIVE.

CLIMBS ANY HILL.

METZ, WALTHAM, MASS.

FAST OR SLOW AS YOU WANT TO GO.

STEAM HEATERS

For Manufacturing and Laboratory Purposes

Made with finished surface in various sizes. Write for circular and prices.

J. A. STOWELL CO. Leominster, Mass.

Price \$210

Warwick Motor Cycles

New Grip Control. Many other new features. The Best yet. Weight, 99 lbs. Send for catalog.

Warwick Cycle and Automobile Co., Springfield, Mass.

Lackawanna Motors

are Simple and Valveless. Easy to start and easy to operate. For automobiles and launches. 3 to 24 H.P. Cut shows Lackawanna Reversing Device attached to our 6 H. P. marine motor. No reversing gear necessary.

LACKAWANNA MOTOR COMPANY 51-61 Letchworth St. - Buffalo, N. Y.

Smooth as a Gun Barrel

Is what one user says after the **Dean Boiler Tube Cleaner** had removed the scale from his boiler tubes. We can take the scale from your boilers and put them in the same condition, "smooth as a gun barrel." Let us at least send you our pamphlet "Economy in the Boiler Room." Write for it to-day.

THE WM. B. PIERCE CO. 319 Washington Street, Buffalo, N. Y.

50 Years' Experience

PATENTS

Trade Marks, Designs, Copyrights, Etc.

Anyone sending a sketch and description may quickly ascertain our opinion free whether an invention is probably patentable. Communications strictly confidential. Handbooks on Patents sent free. Oldest agency for securing patents. Patents taken through **MUNN & CO.** receive Special Notice, without charge, in the

Scientific American

A handsomely illustrated weekly. Largest circulation of any scientific journal. Terms, \$3 a year; four months, \$1. Sold by all newsdealers.

MUNN & CO. 361 Broadway, New York
Branch Office 625 F St. Washington, D. C.

Vulcanizing press, compound hydraulic, E. C. Shaw	758,863
Vulcanizing press, horizontal, E. C. Shaw	759,196
Vulcanizing press, vertical, E. C. Shaw	759,195
Wagon body bracket, P. V. Becker	758,911
Wagon, dumping, O. B. Reynolds	758,932
Wagon or cart, push, D. J. Bailey	758,889
Wagon, like coupling, J. Koppel	758,843
Wagon running gear, J. Gear	759,172
Washbowl, Snyder & McConaha	758,867
Watchcase bezel, G. E. Hart	759,111
Water heater, portable, E. H. Schwartz	758,859
Water heating apparatus, F. A. Gale	758,965
Weather strip, Douden & Robb	758,626
Welding tool, F. E. Thul	758,797
Wheelbarrow frame, G. C. Cone	758,824
Whist tallying sheet, E. Bach	758,908
Wire stretcher, C. W. Epperson	758,637
Wire tightener, C. A. Willmarth	758,725
Wire machinery, J. C. Tweed	758,721
Wire working tool, J. W. Dodd	758,829
Work bench attachment, W. J. Connell	758,677
Zither, Almerantz & Danielson	759,057

DESIGNS.

Badge or similar article, S. Anderson	36,898
Lavatory, C. Weelans	36,907
Medallion or similar article, A. J. Balish	36,897
Paper weight, E. D. Conklin	36,899
Picture frame, H. L. Ashton	36,899
Plaque, F. W. Deitrich	36,902
Smoker's set, J. M. Huffer	36,903
Spoons, forks, or similar articles, handle for, J. E. Straker, Jr.	36,900
Spoons, forks, or similar articles, handle for, Crees & Court	36,901
Tiling for floor and wall coverings, A. W. Nilsson	36,906
Trimming for ladies' underwear, Kerwin & McGinley	36,908
Type, font of, I. Kimball	36,905

TRADE MARKS.

Advertising novelties, certain named, Whitehead & Hoag Co.	42,526
Belting, Jewell Belting Co.	42,557
Beverage composed principally of whisky and syrup, J. Mangan	42,541
Bicycle parts, certain named, New Departure Manufacturing Co.	42,561
Braids, skirt binding, Ticknor & Co.	42,522
Cards, playing, H. G. Witt	42,529
Cheese, International Cheese Co.	42,547
Cigars, cheroots, and cigarettes made of cigar tobacco, Cayey-Caguas Tobacco Co.	42,537
Coloring matters, dyes, and mordants, C. Barolin	42,551
Confections, G. J. Mueller	42,534
Cork extractors, H. Reisinger	42,559
Duck, Wellington, Sears & Co.	42,523
Flavoring extracts, Weaver, Conger Co.	42,537
Fruits, dried, and canned, Aspegren & Co.	42,549
Gin, E. J. Cantin	42,539
Knitted underwear, certain named, Denholm & McKay Co.	42,519
Lard substitute and lard compound, T. M. Sinclair & Co.	42,548
Macaroni and vermicelli, J. B. Canepa	42,550
Medicated tonic beverage, Vim Manufacturing Co.	42,542
Metal, unctuous mixture for protecting, Sylvan Manufacturing Co.	42,553
Milk, condensed milk, cream, and evaporated cream, Michigan Condensed Milk Co.	42,546
Ointments and salves, C. L. Douglas	42,533
Packing for valve joints, Fairbanks Co.	42,558
Paint, certain named, Mural Co.	42,555
Paint in paste form, water, Water Paint Company of America	42,554
Picture post cards and color prints, Raphael Tuck & Sons	42,528
Remedy for galls, sores, cuts, and bruises, external, M. W. Savage	42,532
Remedy or preparation in tablet form, headache, Egyptian Remedy Co.	42,531
Ribbon, G. Balay et Cie	42,520
Saponaceous compound for treating fabrics, O. F. Zurn Co.	42,552
Shovels, spades, scoops, and spading forks, Supplee Hardware Co.	42,560
Silk dress goods, Rogers & Thompson	42,524
Stamps, trading, Crown Stamp Co.	42,527
Table and stove covers, towels, napkins, and doilies, Richardson Roberts Dry Goods Co.	42,525
Tobacco, chewing, B. Payn's Son's Tobacco Co.	42,536
Tops, M. Wallstein	42,536
Twine for binding grain, P. E. Cooper	42,556
Vehicles and parts thereof, certain named hereafter, Fahrzeugfabrik Eisenach	42,562
Water spring, Valley Forge Good-Fyr Springs Co.	42,545
Whisky, E. J. Cantin	42,538
Whisky, G. McPherson & Co.	42,540
Wine, port, E. J. Cantin	42,543
Wine, sherry, E. J. Cantin	42,544

LABELS.

"A. J. Bargahiser's Chick-Hen Powder," for powder for poultry, A. J. Bargahiser	11,039
"Acne Egg Preservative," for egg preservative, J. E. Ulrich & Co.	11,038
"Andrew McLean Co. Mosquito Nets," for mosquito nets, A. McLean Co.	11,013
"Aphrodine," for medicine, East India Chemical Co.	11,026
"Bleedzone," for medicine, East India Chemical Co.	11,021
"Buster Brown Leggings," for leggings, H. Jacobs & Sons	11,012
"Carnation Bouquet," for toilet water, Randolph B. Label Co.	11,014
"Catarrhine," for medicine, East India Chemical Co.	11,023
"Cholerine," for medicine, East India Chemical Co.	11,027
"Constapine," for medicine, East India Chemical Co.	11,029
"Coughine," for medicine, East India Chemical Co.	11,028
"Egyptian Oil," for medicine, East India Chemical Co.	11,025
"It Reaches the Right Spot," for medicine, A. Crichton	11,030
"Kuntz's Heidelberg Rheumatic Cure," for medicine, A. & A. Kuntz	11,032
"Lilac Blossoms," for toilet water, Randolph B. Label Co.	11,015
"Madame Roland's Parisienne Face Massage," for massage preparations, B. T. Weyhing	11,020
"Malatine," for medicine, East India Chemical Co.	11,022
"Mann's Vegetable Syrup," for medicine, T. Dyer	11,031
"Old Beechwood," for whisky, Vegt-Applegate Co.	11,033
"Oyama," for tea, Bailey & Moore	11,034
"Palatine Hair Tonic," for hair tonic, B. Bowen & Co.	11,016
"Pompeian Massage-Cream and Skin Food," for massage cream and skin food, F. W. Stecker	11,019
"Pompeian Massage-Soap," for soap, F. W. Stecker	11,017
"Southern Cross," for coffee, Hewlett & Hewlett	11,035
"Sulphurine," for medicine, East India Chemical Co.	11,024
"Sweet Peggy," for crystallized popcorn, Pelham & Foster	11,036
"U-Bat-A-Biscuit," for crackers and biscuits, P. Badanes	11,037

PRINTS.

"Home Educator," for coffee, C. Pearlham. 987

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 10 cents, provided the name and number of the patent desired, and the date be given. Address Munn & Co., 361 Broadway, New York.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list. For terms and further particulars address Munn & Co., 361 Broadway, New York.

PERFORATED METALS

FOR ALL USES. MADE AS REQUIRED.

HARRINGTON & KING PERFORATING CO., CHICAGO.

EASIER TO ROW ABSOLUTELY SAFE Mullins Unsinkable Steel Pleasure Boats

Write to-day for free catalogue

15-foot boat, crated \$29.00

for family use, summer resorts, parks. Guaranteed. Will give a new boat for pleasure, safety and durability. No other boat so desirable.

W. H. MULLINS, 384 Depot St., Salem, Ohio

The Curtain Rises On the World by the time of the

ELGIN WATCH

Every Elgin Watch is fully guaranteed. All jewelers have Elgin Watches. "Timemakers and Timekeepers," an illustrated history of the watch, sent free upon request to

ELGIN NATIONAL WATCH CO., ELGIN, ILL.

Columbia

LIGHT TONNEAU

12-14 HORSE POWER \$1,750

Self-lubricating, two-cylinder opposed motor in forward position. Cylinders 5x4 1/2 in. Bevel gear drive. Driving pinions and gears as strong as found in most cars of twice the weight. Easiest of all gasoline cars to operate and maintain.

30-35 HORSE-POWER TOURING CAR \$4,000

Most powerful and most comfortable. Comfort top, Liberator or Sunrise body to order.

24-30 HORSE-POWER TOURING CAR \$3,500

Powerful and comfortable. Comfort top, Liberator or Sunrise body to order.

NEW MODEL ELECTRIC RUNABOUT \$850

Electric motor and battery. Light and easy to handle.

"ELBERON" ELECTRIC VICTORIA \$1,600

In its class, successful beyond compare. The best of the year.

Carriages will be sent on request. Also special catalogues of Double Electric Taxis, Buggies and Commercial Vehicles.

ELECTRIC VEHICLE CO HARTFORD, CONN

New York, 134-136-138 West 39th St. (Opp. Metropolitan Opera House.)
Chicago, 1413 Michigan Ave. Boston, 74-78 Stanhope St.

Member Association of Licensed Automobile Manufacturers

SPECIAL MANUFACTURING.

DIES AND STAMPINGS TO ORDER.

SPECIAL MACHINERY—MODELS—EXPERIMENTAL WORK.

PROOF-FORGING DIES AND DROP-FORGINGS.

HARDWARE SPECIALTIES ARE MADE TO ORDER—SEND SAMPLES OR DRAWINGS FOR ESTIMATE. WRITE FOR OUR BOOKLET.

THE GLOBE MACHINE & STAMPING CO. 970 HAMILTON ST., CLEVELAND, OHIO.

Export Trade

How to Secure and How to Hold It

Valuable hints on how to secure Export Trade sent gratis on request. Address

EXPORT EXPERT Box 773, New York

ICE MACHINES. Corliss Engines, Brewers' and Bottlers' Machinery. **THE VILTER MFG. CO.,** 899 Clinton St., Milwaukee, Wis

MODELS & EXPERIMENTAL WORK. Inventions developed. Special Machinery. **E. V. BAILLARD,** Fox Bldg., Franklin Square, New York.

SPECIAL MACHINERY Tools and Dies. Model and Experimental Work. **Costilo Machine Works,** 60 Centre St., New York

CHEMICAL EXAMINATIONS OF ALL KINDS. **DR. H. C. STIEFEL,** Bissell Block, Pittsburgh, Pa.

The National Sheet Metal Works is especially equipped to manufacture small articles stamped, pressed, cut from sheet metal. White metal casting and plating a specialty.

The National Sheet Metal Co., Peru, Ill.

MODELS & GEARS CATALOGUES FREE UNION MODEL WORKS & GEARS 133 CLARK CHICAGO.

MODEL Draughting and Experimental Work. Inventions developed. Salable articles. Manufactured on royalty or contract. **MARION MODEL WORKS,** Box 457, Marton, Ind.

Models and Patented Articles, Advertising Novelties, etc., mfd. by National Supply Co., 555 B'way, N. Y.

Dies, Tools, Models and Special Machinery. Metal, specialties and tooling. **HOEFT & MOORE,** Chicago, U. S. A.

DRYING MACHINES. S. E. WORRELL, Hannibal, Mo.

SPLITDORF SPARK COILS 25 VANDEWATER ST. N.Y.

BUILDERS OF Special Machinery. Models, Experimental work. Inventions developed. **THE FENN-SADLER MACH. CO.,** Hartford, Conn.

SEALED PROPOSALS WILL BE RECEIVED AT the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock p. m., Thursday, June 24, 1904, and then opened, for furnishing miscellaneous articles for the Light-House Establishment, for the fiscal year ending June 30, 1905, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to W. T. Russell, Major, Corps of Engineers, U. S. A., Engineer.

MODEL AND EXPERIMENTAL WORK. Electrical and Mechanical Instruments. Small Machinery. **EDWARD KLEINSCHMIDT,** 82 W. Broadway, New York.

AUTOMOBILE PARTS. Our line of automobile parts is complete and embraces new and original ideas in construction. Send for Catalogue and Prices. **OTTO KONIGSLOW,** Cleveland, Ohio.

MODELS CHICAGO MODEL WORKS ESTABLISHED 1870. 133 MADISON ST. CHICAGO, ILL.

"THE CRYSTAL" "ONE CENT" Plate Glass Gum Vender. Designers and constructors of vending machines of all kinds, on contract. **MICHIGAN NOVELTY WORKS,** Kalamazoo, Mich.

Manufacturers of **HARDWARE SPECIALTIES** Contract Manufacturers and will market articles of merit **LORIMER MFG. CO.,** 153 S. Jefferson St., Chicago, Ill.

TYPEWRITER HEADQUARTERS 332 Broadway, New York, etc., all makes under 12.50 price. Don't buy before sending for samples of writing press, exchange and improved advice. Exchange stock for selection. Shipped for trial. Guaranteed first-class condition. Dealers supplied.

THE "BEST" LIGHT Outshines the Sun. It's pure white light makes day of night. Costs less than kerosene; six times more powerful than electricity. Examined, tested and permitted by underwriters' association. CATALOG FREE. **NO DIRT -- NO WICK -- NO SMOKE -- NO SMELL** Agents wanted. Exclusive territory, good commission paid. **THE BEST LIGHT COMPANY,** Sole Owners of Original Patents. 87 E. 5th St., Canton, Ohio.