



**PATENTS**

The First Inquiry that presents itself to one who has made any improvement or discovery is: Can I obtain a Patent? A positive answer can only be had by presenting a complete application for a Patent to the Commissioner of Patents.

Messrs. MUNN & CO., in connection with the publication of the Scientific American, have been actively engaged in the business of obtaining patents for over twenty years.

Those who have made inventions and desire to consult with us, are cordially invited to do so. We shall be happy to see them in person, at our office, or to advise them by letter.

Preferential Examination.—In order to obtain a Preferential Examination, make out a written description of the invention in your own words, and a rough pencil or pen-and-ink sketch.

In Order to Apply for a Patent, the law requires that a model shall be furnished, not over a foot in any dimension, smaller, if possible. Send the model by express, prepaid, addressed to Munn & Co., 37 Park Row, N. Y.

Reissues.—A reissue is granted to the original patentee, his heirs, or the assignee, when by reason of an insufficient or defective specification the original patent is invalid.

Interferences.—When each of two or more persons claims to be the first inventor of the same thing, an "interference" is declared between them, and a trial is had before the Commissioner.

Caveats.—A caveat gives a limited but immediate protection, and is particularly useful where the invention is not fully completed, or the model is not ready.

Quick Applications.—When from any reason patentees are desirous of applying for Patents or Caveats, in Great Britain, France, Prussia, Belgium, and the Netherlands, we will make special exertions for them.

Foreign Patents.—American Inventors should bear in mind that, as a general rule, any invention that is valuable to the patentee in this country is worth equally as much in England and some other foreign countries.

MUNN & CO., No. 37 Park Row, New York City. Office in Washington, Cor. F and 7th streets.

Patents are Granted for Seventeen Years, the following being a schedule of fees: On filing each caveat, \$10.

PATENT CLAIMS.—Persons desiring the claim of any invention, patented within thirty years, can obtain a copy by addressing a note to this office, giving name of patentee and date of patent.

**R. HOE & CO.'S NEW PATENT WARRANTED SAWS WITH INSERTED TEETH.**

CIRCULARS, WITH ENGRAVINGS, SENT ON APPLICATION. 31 Gold Street, New York. 19 tf os

**Advertisements.**

A limited number of advertisements will be admitted on this page at the rate of \$1 per line. Engravings may head advertisements at the same rate per line, by measurement, as the letter press.

PAPER-BOX Machines, Paper-Collar Machines, and Rosin, Collar, & Cuff Plaiting Machines. W. H. TOLHURST, cor. Union and Fulton sts., Troy, N.Y. 21 1os

**Band Saws and Files.** FRENCH BAND SAW MACHINES and SAWS.—For Sawing Logs and Resilting. Also, for Light and Heavy work. G. GWEUTAL, 39 West Fourth st., New York. 1\*os

**AN ENGINEER, First-Class Draftsman,** Designer, etc., of any kind of work in Civil and Mechanical Engineering, wants a situation. Graduated in Foreign Polytechnic Schools, and experienced by Practical Working. Address, J. J. M., Hoboken, N. J. 1\*os



Factory, Trenton, N. J. Office, No. 2, Jacob st., N. Y.

\$3000 TO \$5000 Wanted to construct an Aerial Car. Address A. L. SHEARS, Flint, Michigan; 21 1\*os

FOR SALE—Two New Patents for Articles indispensable in every Family, and retail from 50c to \$3. Address G. A. PRIELHAM, Newark, N. J. 21 2\*os

AGENTS WANTED.—A People in want of, and Agents who are selling all kinds of SEWING MACHINES, are requested to address me (with stamp) for greatly reduced prices and terms. 21 4os J. K. PEARSONS, Box 4, Charlestown, Mass.

FOR SALE—One of Kirk's improved Steam Hammers, with 300 to 500 lb. hammer head, in good working order, complete, with dies, tongs, and tools, belonging thereto, is for sale at a bargain, as proprietors wish to change business. Address KLOMAN, BUERKLE & CO., Pittsburgh, Pa. 21 1\*os

**Band Saws and Files.** FRENCH BAND SAW MACHINES and SAWS.—For Sawing Logs and Resilting. Also, for Light and Heavy Work. G. GWEUTAL, 39 West Fourth st., New York. 21 1\*os

Published by E. STEIGER, New York. **THE WORKSHOP,** A Monthly Journal, devoted to Progress of the Useful Arts. With illustrations and patterns covering the wide range of Art applied to Architecture, Decoration, Manufacture, and the Trades generally.

**ASBESTOS**

ASBESTOS ROOFING, ASBESTOS ROOF COATING, AND ASBESTOS CEMENT. For cementing joints and fissures in Wood, Stone, and Metals, and for repairing Leaks in Roofs.

ALL who are familiar with the nature of the indestructible fibrous mineral, Asbestos, will appreciate its value for these purposes. H. W. JOHNS, 78 William st., New York.

FREE. Our New Catalogue of Improved STENCIL DIES. More than \$200 A MONTH is being made with the S. M. SPENCER & CO., Brattleboro, Vt. 60

IRON PLANERS, ENGINE LATHE S, Drills, and other Machinists' Tools, of Superior Quality, of hand and finishing. For Sale Low. For Description and Price, address NEW HAVEN MANUFACTURING CO., New Haven. 5 os 1

**Ready Roofing.** READY ROOFING.—The first customer in each place can buy 1000 feet of Roofing at half price—\$25. Samples and circulars sent by mail. Ready Roofing Co., 81 Maiden Lane, New York. 20 tf

**WIRE ROPE.**

Manufactured by JOHN A. ROEBLING, Trenton, N. J. FOR Inclined Planes, Standing Ship Rigging, Bridges, Ferriss, Scaffs or Gays on Derricks and Cranes, Tiller Rods, Sash Cords of Copper and Iron, Lightning Conductors of Copper. Special attention given to hoisting rope of all kinds for Mines and Elevators. Apply for circular, giving price and other information. 17 9\*os

**Pressure Blowers**

OF ALL SIZES, for purposes where a blast is required. For particulars and circulars, address B. F. STURTEVANT, No. 72 Sudbury st., Boston, Mass. 17 os 1

FOR SALE—Eight New Portable Steam Engines, 30 horse power each, of superior construction. Address POOLE & HUNT, Baltimore, Md. 20 4\*os

WOODWARD'S COUNTRY HOMES: 150 designs. \$1 50 postpaid. GEO. E. WOODWARD, 191 Broadway, N. Y. Send stamp for catalogue of books on Architecture. 18 1tos

**Reynolds' TURBINE WATER WHEELS** And all kinds of MILL MACHINERY. Send for Illustrated Pamphlet. GEORGE TALBOT, 96 Liberty st., New York. 14 18\* os

STEAM ENGINES—all Sizes and Kinds. Send for Circular. H. M. AMES, Oswego, N. Y., or No. 60 South Canal st., Chicago, Ill. 20 4\*os

**BODINE'S JONVAL TURBINE WATER** Wheel, combining great economy in the use of water, simplicity, durability, and general adaptation to all positions in which water can be used as a motive power. We are prepared to furnish and warrant the same to give more power than any overshoot or other turbine wheel made using the same amount of water. Agents wanted. Send for descriptive circular. BODINE & CO., Mount Morris, N. York, and Westfield, Mass. 17 os 1f os 10W

ADJUSTABLE DRILL CHUCK—holds from 1/8 to 1/2 in. \$3. Improved Lathe Dog, carries from 1/2 to 2 in. diam. Light and strong—will take the place of fullest of ordinary dogs. Price \$1. Address AMERICAN TWIST DRILL CO., Wagonsocket, R. I. 17 os 1f os 10W

**BROKERS' SALE of Rich and Valuable** Goods, comprising a great variety of Valuable and Useful Articles for sale at \$1 FOR EACH ARTICLE. For additional terms, and conditions of sale, send for circulars. The Stock consists of every variety of Dry Goods, Silver-Plated Ware, Albums, Carpets, Boots and Shoes, etc. We commenced the sale of goods on this plan in the fall of 1861. Our Goods are obtained by cash advances made on merchandise, or are purchased direct from the commission houses, manufacturers, and importers. We are selling goods at less prices for retail than are sold by any jobber in New York or Boston at wholesale. By offering such inducements to the public, we have increased our sales to the amount of about \$1,000,000 a year, as we have made \$700,000 returns to the U. S. Assessor of over one hundred thousand a month. Every exertion on our part will be made to give satisfaction to those who may favor us with their patronage. Address ANDREWS & CO., 19 4 104 and 106 Sudbury st., Boston, Mass.

**DIRECT-ACTING STEAM PUMPS,**—and Boiler Feeders, in lieu of Injectors. Address, for circulars, the Sole Manufacturers, COPE & CO., No. 118 East 2d st., Cincinnati, Ohio. 17 6

**IRON & WOOD WORKING MACHINERY** TURBINE WATER WHEELS. LUCIUS W. POND, 98 Liberty st., N. Y., and Worcester, Mass. 18 1t

**RAILROAD, STEAMSHIP, MANUFACTURERS,** and Engineer's Supplies, of all kinds, at 1/24\* M. T. DAVIDSON & CO.'S, 84 John st., N. Y.

**TODD & RAFFERTY, Manufacturers and DEALERS IN MACHINERY.** Works, Paterson, N. J.; Warehouses, 4 Dry st., N. Y.; Boilers, Steam Pumps, Machinists' Tools. Also, Flax, Hemp, Rope & Oakum Machinery; Snow's & Judson's Governors; Wright's Patent Variable Cut-off & other Engines. 9 tf

**Philadelphia Advertisements.**

Philadelphia Advertising Patrons, who prefer it, can have their orders forwarded through T. V. Carpenter resident Agent, 313 North Sixth street.

**HARRISON BOILER**

HAS ABSOLUTE SAFETY! HAS GREAT ECONOMY IN FUEL HAS DURABILITY AND FACILITY OF REPAIR.

Hundreds of these boilers have now been in use for years, giving perfect satisfaction. For descriptive circular and price apply to JOHN A. COLEMAN, Agent, 53 Kilby street, Boston, Mass. J. B. HYDE, Agent, Office No. 9, at 119 Broadway, New York, or to THE HARRISON BOILER WORKS, Gray's Ferry Road, Philadelphia, Pa. 9 13\* 1

**PALMER'S PATENT ARTIFICIAL LIMBS.** Ten Thousand in Use. B. Frank Palmer, L. D., Surgeon, Artist, Inventor, and Sole Proprietor. Offices 309 Chestnut st., Philadelphia; 678 Broadway, N. Y.; 81 Green st., Boston. Illustrated Books sent free to applicants. 21 4os

**Surveying Instruments** Transits, Levels, Compasses, Surveying Chains, Locke's Levels, Slope Levels, etc.; Mathematical Instruments of every description; Drawing Paper, Water Colors, etc., etc. A Priced and Illustrated Catalogue of the above sent on application. WILLIAM Y. MCALLISTER, 728 Chestnut street, Philadelphia Pa. 21 8os 1

**ELECTRIC TOY!**—State and County Rights for sale. Toys in any quantity. Send for Circular. FOUNTAIN & BLACKSTONE, 21 4os 912 Market st., Philadelphia.

**Agents Wanted** Fountain Pen, very durable, non corrosive, new desirable, runs smooth, writes three pages with once dipping. Sells quick. \$10 per day. Sample box, 12 pens, 35 cents; 12 boxes \$2. Postpaid. Also GOLD MORSÉ FOUNTAIN PEN CO., 413 Chestnut st., Philadelphia, Pa. 21 6os eow

**STEREOPTICONS AND Magic Lanterns**

Of every description, with the Oxy-Hydrogen Magnesium, Calcium, and Oil Lights. A Priced and Illustrated Catalogue of the above, and over 5000 views for the same, manufactured and for sale by me, will be sent on application to WILLIAM Y. MCALLISTER, 728 Chestnut street, Philadelphia, Pa. 21 5os

**TO INVENTORS.**—Any Person having an invention or patent, and lacks money, can obtain assistance, if approved of, by applying to or addressing with particulars, J. B. BURR & CO., 221 South 5th st., Philadelphia, Pa. 18 5\*os

**Industrial Works.** MACHINISTS' TOOLS AND EQUIPMENTS for Railroad, Iron Ship Building, and Gun Shops. STEAM HAMMERS, TURN TABLES, Shafting, Bolt Cutters, Cotter and Key-Seating Machines, Cranes, Cupolas, etc. BEMENT & DOUGHERTY, Philadelphia, Pa. 9 13os 1

**BOOK AGENTS WANTED,** for Howland's LIFE OF GEN. GRANT, as a Soldier and a Statesman. An accurate history of his military and civil career. One large octavo vol. of 660 pages, finely illustrated. Agents will find this the best book to sell at the present time. The largest commission given. We employ no General Agents and offer extra inducements to canvassers. Agents will see the advantage of dealing directly with the publishers. For circulars and terms, address J. B. BURR & CO., Publishers, Hartford, Ct. 19 4

**ASHCROFT'S LOW WATER DETECTOR** or will insure your Boiler against explosion. JOHN ASHCROFT, 50 John st., New York. 12 12\*

**ANDERSON'S PATENT MULEY SAW** Hangings. The oscillating lower Muley and self-adjusting rake upper Muley performs more work with 1/2 less power than any other. COE & WILKES, Painesville, Ohio, sole manufacturers, except for the States of Maine and Pennsylvania. Send for circulars. 15 8\*

**STEAM AND WATER GAGES, STEAM** Whistles, Gage Cocks, and Engineer's Supplies. 12 12\* JOHN ASHCROFT, 50 John st., New York.

**RICHARDSON, MERIAM & CO.,** Manufacturers of the latest improved Patent Danforth's and Woodworth Planing Machines, Matching, Sash and Molding, Tenoning, Mortising, Boring, Shaping, Vertical and Circular Hoisting Machines, Saw Mills, Saw Arbors, Scroll Saws, Railways, Cut-off, and Rip Saw Machines, Spoke and Wood Turning Lathes, and various other kinds of Wood-working machinery. Catalogues and price lists sent on application. Manufacturing, Worcester, Mass., Warehouse, 107 Liberty st., New York. 21 tf

**WANTED—Ladies and Gentlemen every-**where, in a business that will pay \$5 to \$20 per day; no book, patent right, or medical humbug, but a standard article of merit, wanted by everybody, and sold at one third the usual price, with 20 per cent profit to our agents. Samples and circulars sent by mail, for 25 cents. 12 tf] WHITNEY & SON, 6 Tremont st., Boston, Mass.

**Zur Beachtung für deutsche Erfinder.**

Nach dem neuen Patent-Gesetz der Vereinigten Staaten, können Deutsche, sowie Bürger aller Länder, mit einer einzigen Ausnahme, Patente zu denselben Bedingungen erlangen, wie Bürger der Vereinigten Staaten.

Erfindungen über die, zur Erlangung von Patenten nötigen Schritte, können in deutscher Sprache schriftlich an uns gerichtet werden und Erfinder, welche persönlich nach unserer Office kommen werden, mit Deutschen prompt bedient werden.

Die Patent-Gesetze der Vereinigten Staaten, nebst den Regeln und der Geschäftsordnung der Patentoffice, und Anleitungen für die Erfinder von sich Patenten zu sichern, sind in deutscher Sprache herausgegeben, und werden gratis an alle beherzt, welche darinnen mündlich oder schriftlich eintommen.

Man adressire Munn & Co. 37 Park Row, New York