

## TO CORRESPONDENTS.

G. P., of Mich.—We shall give something more about the inks by-and-by.

C. H. R., of N. Y.—We do not know where a second-hand screw lathe can be found: they are rarely ever offered for sale. \$2 received and credited.

G. J. S., of Mass.—We think your Apple Pearing machine new in some respects, sufficient to warrant an application for a patent. You had better send a small model to this office. You cannot secure it in any other way than to make an application for a patent.

W. & Co., of O.—We know of nothing that will effectually prevent iron or steel from rusting, if exposed to dampness, but good copal varnish, thoroughly applied, and the metal exposed to a gentle heat in an oven, will be a good preventive.

J. P. M., of La.—We know of no new process for soldering, different from what we have published in previous volumes.

D. T., of N. Y.—We charge \$1 for binding two volumes of the Scientific American in one cover.

M. C., of N. Y.—We will send you a copy of the History of Propellers, and pre-pay postage, for \$1.

A. N. T., of N. Y.—If you will send your volumes all down we will endeavor to have them done for you by the time specified. For that fine list of subscribers accept our hearty thanks.

W. N. M., of Va.—A patent was issued to Robert C. Marsh, on the 26th Dec., 1845. "The American Miller," a book published by H. C. Baird, of Philadelphia, will give you the information desired about the mill stones.

A. C., of Conn.—We do not remember about the article on the boiler, but we do not believe that a rotary steam boiler can ever be made to work so economically as a stationary one. We have never seen a lubricator made to act upon the same principle as the one you have sketched: it is ingenious, and strikes us very favorably. It must, however, be exceedingly well arranged and constructed to work well, but this can be done.

J. C. B., of Texas.—The submerged tidal water wheel is not patentable. In our Vol. 4, you will find two of them illustrated. McCormick's Reaper has received the greatest praise, and is perhaps the very one you want.

L. B., of Pa.—We are not agents for Lerow & Blodgett, and do not know anything about the matter. J. A. Lerow, resides in Fitchburg, Mass.

M. S., of Ohio.—Your pump is in our opinion a decidedly novel, and would undoubtedly work, but whether advantageously or not, is a matter of experiment; the strap, in forcing out the water, would have the pressure to overcome, as any other lifter, independently of the friction produced by its crossing the partition.

J. D. J., of N. C.—We think your invention quite a novelty, but we doubt its utility. You could easily try an experiment on a small scale and satisfy yourself of what we already believe, that it will not do.

J. K. J., of Pa.—We do not exactly comprehend your meaning about the conical spring: no such communication appears on our files. Let us hear from you again. Thank you for the fine list of subscribers. \$15 received.

Dr. R. W. W., of Ala.—We will renew our exertions to obtain the work you want, and will send it by mail if successful.

C. A., of Me.—We have examined the sketch of your improvements in soldering machines, and think a claim can be made upon it which will pass through the office; you had better send a model.

W. C., of C. W.—Will be on the look out for the information you require, and in case we succeed will inform you by letter.

J. M. B., of Ohio.—During the early history of railroads, various plans were adopted for ascending inclines—sometimes the tops of the rails were grooved and the wheels made to fit them. Again, the tread of the wheel was grooved, or a rack employed. Some have proposed the employment of supplementary rails and driving wheels similar to yours, these rails being raised, and of course the wheels made to fit. We do not think your plan patentable.

E. S. Z., of Md.—Not being able to give such information as you desire about the price of chisels, we refer you to Messrs. Couch & Alcott, Oriskany Falls, N. Y.

T. B., of R. I.—We do not think the work you refer to could be of much service, you being unacquainted with the art. Cameras can be had of John Roach, Nassau street, at prices varying from \$65 to \$125.

H. B. S., of Vt.—You had better send a model of your invention, as we think it possesses novelty of a patentable character. When you send the model enclose the amount of government fee, \$30, and the bill for our services will be rendered when the papers are prepared.

Money received on account of Patent Office business for the week ending September 27th.

H. M., of Pa., \$30; E. S., of Mass., \$50; J. S., of O., \$20; J. H. B., of Ct., \$15; D. T., of N. Y., \$30; J. R., of N. Y., \$30; A. W., of Mass., \$45; J. C. L. & Co., of Ct., \$50; P. & J. R. T., of Ct., \$50; W. H. N., of Ct., \$20; L. N., of Mass., \$30; W. H. B., of R. I., \$35; E. B. L., of N. Y., \$40; T. N. B., of Mass., \$15; A. C., of Ct., \$30; J. Van B., of N. Y., \$20; T. G., of Mass., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the patent office during the week ending September 27th.

T. B. W., of N. Y.; E. S., of Ct.; J. H. B., of Ct.; J. S., of O.; W. N., of Ct.; V. B. S., of Ct.; J. R., of N. Y.; W. C. B., of N. Y.; S. H., of Mass.; J. B. S. H., of Mass.; J. M. T., of N. Y.; S. W. & R. M. D., of Mass.; E. L. H., of N. Y.; J. Van B., of N. Y.

## Binding Volume 6.

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## Back Numbers and Volumes.

In reply to many interrogatories as to what back numbers and volumes of the Scientific American can be furnished, we make the following statement:

Of Volumes 1, 2 and 3—none.  
Of Volume 4, about 20 Nos.; price 50 cts.  
Of Volume 5, all, price, in sheets, \$2; bound, \$2.75.  
Of Volume 6, all: price in sheets, \$2; bound, \$2.75.

## New Edition of the Patent Laws.

We have just received another edition of the American Patent Laws, which was delayed until after the adjournment of the last Congress, on account of an expected modification in them. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. We shall continue to furnish them for 12 1-2 cts. per copy.

## Patent Claims.

Persons desiring the claims of any invention which has been patented within fourteen years, can obtain a copy by addressing a letter to this office, stating the name of the patentee, and enclosing one dollar as fee for copying.

## Postage on Books.

Subscribers ordering books or pamphlets through us are particularly requested to remit sufficient to pay postage, or we cannot attend to their orders. We are obliged to pay from 10 to 50 cents every time a pamphlet or book is sent by us through the post, and the justice of our demand is made apparent.

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## American and Foreign Patent Agency

**IMPORTANT TO INVENTORS.**—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M., until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. In the item of charges alone, parties having business to transact abroad, will find it for their interest to consult with us, in preference to any other concern. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

**WOODWORTH'S PATENT PLANING MACHINE.**—Some estimate can be formed of the usefulness of the Woodworth Patent, and its title to favor, when one machine is computed to perform the labor of planing and grooving in one day that would require fifty days by a man, and which is supposed to reduce seventenths the expense of such work in every building where the improved method is used, as it ere long will be, by the many millions of our own population, and in time over the civilized world. Every honest social system must shield such inventions, and every wise one seeks, undoubtedly, to encourage them; and to discountenance encroachments on their rights and defeat piracies of their useful labors, is calculated, in the end, to better the condition of every rank in society, and introduce, wider and faster, all the benefits of a superior state of civilization and the arts. —Judge Woodbury, Supreme Court of the United States, December, 1845. 32\*

**1851 TO 1856.—WOODWORTH'S PATENT Planing Machines** in New York and Northern Pennsylvania.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machine. Price of a complete machine for planing, \$150; for planing, tonguing and grooving, \$700. For machines and rights to use them at Morrisania, Chester, Sag Harbor, Yonkers, Poughkeepsie, Whitehall, Plattsburg, Rouse's Point, Malone, Pottsville, Norwich, Ithaca, Attica, Tonawanda, Meadville, New Castle, Warren, Towanda, Williamsport, Lock Haven, Wilkesbarre, Scranton, Carbondale, Honesdale, and the other unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 33\*

**TILTON'S Patent Violin.**—The undersigned having patented his Violin Improvement, is prepared to exhibit to the public. Being now in New York, he may be found at No. 18 Park Place (Mr. J. Wiley's), where he will be pleased to see such gentlemen as take an interest in his invention. All communications addressed "Wm. B. Tilton & Co.," as above, or at Carrollton, Pickens Co., Ala. 312\*

WM. B. TILTON.

## Foreign Patent Office.

**MESSRS. MUNN & CO.** transact business connected with Patents in all European countries, where this species of property is recognized. They take pleasure in referring parties to Smith Dunning, Jr., N. Y.; Ebenezer Barrows, N. Y.; Charles Starr, Bible House; William Van Anden, Poughkeepsie; Mortimer & Gardiner, Charleston, S. C.; William Bushnell, N. Y.; J. S. Prouty, Geneva, N. Y.; Gail Borden, Jr., Galveston, Texas, and to all others for whom they have done business.

**KELLY & CO.,** New Brunswick, N. J., Foundry and Machine shop, manufacturers of stationary Engines, India Rubber Machinery, Mill Gearing, and stove castings &c. Articles made in the machinery line to order with dispatch and in the most workmanlike manner. Parties wanting machinery or castings made will be waited on within any reasonable distance. Orders solicited. 47 12\*

**MARSHALL, BEMENT, & COLBY**—Manufacturers of Machinists' Tools, Callowhill street, west of Schuylkill 3d, Philadelphia, are ready to execute orders for Slide and Hand Lathes, Planing Machines, Upright Drills, Upright Boring Machines, Screw Cutting and Tapping Machines with Gates' Patent Dies and Taps, Gear Cutting Engines, Shaft-Pulleys, Hangers, &c. Orders for Machinery, Iron and Brass Castings and Patterns, promptly executed. E. D. Marshall, Wm. B. Bement, G. A. Colby. 14\*

**TO ENGINEERS.**—A new Work on the Marine Boilers of the United States, prepared from authentic Drawings and Illustrated by 70 Engravings—among which are those of the fastest and best steamers in the country—has just been published by B. H. BARTOL, Engineer, and is for sale at the store of D. APPLETON & CO., 200 Broadway. 1 12\*

**A LARGE LATHE FOR SALE CHEAP.**—A new Lathe, 16 feet long, swings 31 inches, turns 12 1-2 feet; has 25 changes of screw gear, weighs about 5,000 lbs., has counter shaft, &c. Price \$550, cash. Apply to S. C. HILLS, 12 Platt street, where the lathe can be seen. 51 4\*

**HUTCHINS' CRANK INDICATOR.**—The subscriber having purchased the entire right of Hutchins' Patent Crank Indicator, would respectfully inform the public that he is ready to supply orders or sell territory. The Indicator has been used aboard the "Northerner," "Bay State," "Catawba," "Niagara," "Ontario," and "Lady of the Lake," the Captains and Engineers of which have all given their testimonials of approbation. Address G. S. WORMER, Steamboat Office, Oswego, N. Y. 51 6\*

**WANTED.**—A situation is wanted by a person capable of planing and constructing furnaces for smelting iron ore, or erecting rolling mills. He is an experienced mechanic, thoroughly conversant with the iron business, and would like a permanent situation in some of the Southern States. Address M. E. Dwyer, N. J. 45 10\*

**Maryland Machine Manufacturing Co.**, having suspended operations, offer all their Machinery and Tools for sale. The assortment is large, has been in use but a short time, and is of the most improved kinds. For particulars apply to the undersigned GEORGE POE, Agt., Ellicott Mills P. O. Maryland. 1 4\*

**WE HAVE FOR SALE,** a bound set of the London Patent Journal, consisting of the first 10 volumes. It is a valuable work for the Inventor, Mechanic, or manufacturer. The last Volume comes up to near March 29, 1851. Price \$30. MUNN & CO.

**RAILROAD CAR MANUFACTORY.**—TRA-CY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty, and good taste, as well as strength and durability, we are determined our work shall not be unsurpassed. JOHN R. TRACY, 39tf. THOMAS J. FALES.

**BEST CAST STEEL AXLES AND TYRES,** (a new article) for Railroad Carriages and Locomotives. The quality of this steel is sufficiently attested in the announcement that it has carried off the first prizes awarded at the World's competition of 1851, in London. The axles are in general use on the Continent, and are now offered in competition with any other that can be produced; and to be tested in any way that may be desired by the engineers of the United States, either by impact or by torsion. This steel is manufactured by Fried Krupp, Esq., of Essen, in Rhenish Prussia, represented in the United States by THOS. PROSSER & SON, 28 Platt st., N. Y. 2tf.

**SHINGLE MACHINES.**—Manufactured to order at Albany, N. Y., at short notice: these machines are superior to any now in use: they are in use in several different States. All who wish for a good machine will do well to call or send their orders by mail, which will be promptly attended to. 22\*

**ALCOTT'S LATHES.**—I would say, in regard to the Alcott Lathe I purchased of you about a year ago, that it will perform all that it is represented to, and could I not get another I would not take \$50 for it, so that you need not be afraid to recommend them. F. R. BARTLETT. Galesburg, Ill. 2tf

**PALMER'S ARTIFICIAL LEGS.**—Manufactured at Springfield, Mass., and 376 Chestnut-st. Philadelphia, by Messrs. Palmer & Co.—All orders from New York and New England must be made to Palmer & Co. Springfield, Mass.—"I have examined carefully the Artificial Leg, invented by Mr. B. F. Palmer; its construction is simple and its execution beautiful; and what is most important, those who have the misfortune to require a substitute for a natural limb and the good fortune to use it—all concur in bearing practical testimony to its superiority in comfort and utility. VALENTINE MOTT. New York, Jan. 29, '51. 39 6meow\*

**CHILD'S PREMIUM SAW MILL.**—To Plank Road Contractors and Lumbermen generally.—The subscriber having obtained a patent for improvements in circular saw mills, by which large timber can be cut with as great facility as small, and with one half less power, and one third less waste of timber than by ordinary mills, offers mills and rights on reasonable terms. For illustration see Scientific American of March 15th, 1851. O. C. CHILD. Granville, Ill., May 20, 1851. 39 9ow\*

**SCRANTON & PARSHLEY,** Tool Builders, New Haven, Conn., have on hand six 12 ft. slide lathes, 28 in. swing; also four 8 ft. do.; 21 in. swing, with back and screw gearing, with all the fixtures; one 5 ft. power planer; 12 drill presses, 4 bolt cutting machines, 30 small slide rests; 5 back geared hand lathes, 21 in. swing; 15 do. not geared; 8 do. 17 in. swing on shears 5 1-2 feet; 25 ditto with and without shears, 13 in. swing; counter shafts, all hung if wanted suitable to the lathes. Scroll chucks on hand; also index plates for gear cutting. Cuts of the above can be had by addressing as above, post-paid. 47tf

**BEARDSLEE'S PATENT PLANING MACHINE,** for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany, N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the abovesaid foundry—or at his residence, No. 764 Broadway, Albany. GEO. W. BEARDSLEE. 43tf

**TO PAINTERS AND OTHERS.**—American Anatomic Drier, Electro Chemical graining colors, Electro Negative gold size, and Chemical Oil stove Polish. The Drier improves in quality by age—is adapted to all kinds of paints and also to Printers' inks and colors. The above articles are compounded upon known chemical laws and are submitted to the public without further comment.—Manufactured and sold wholesale and retail at 114 John st. N. Y. and Flushing L. I. N. Y.; by QUARTERMAN & SON Painters and Chemists. 48tf

**MACHINERY.**—S. C. HILLS, No. 12 Platt-st. N. Y. dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Mortising and Tennoning machines; Belting; machinery Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 1tf

**LAP-WELDED WROUGHT IRON TUBES** for Tubular Boilers—from 1 1-4 to 7 inches in diameter. The only Tubes of the same quality and manufacture as those so extensively used in England Scotland, France and Germany—for Locomotive Marine and other steam Engine Boilers. THOS. PROSSER & SON, Patentees, 28 Platt-st. N. Y. 1tf

**LATHES FOR BROOM HANDLES, &c.**—We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

This Lathe is capable of turning under two inches diameter with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch and work as smoothly as on a straight line—and does excellent work. Sold without frames for the low price of \$25—boxed and shipped with directions for setting up. Address (post-paid) MUNN & CO. At this Office.

**MONTGOMERY MANUFACTURING CO.'S** Iron Works, Montgomery Ala. Capital invested \$250,000. Steam Engines and Boilers; Reuben Rich's cast-iron centre vent water wheel and iron scrolls complete (the very best wheel in use) sugar mills, saw and grist mill irons of most approved patterns; iron and brass castings of every variety, &c. Orders promptly executed and upon terms as favorable as can be secured from the best northern establishments. When required, deliveries made (through their agents) at Mobile or New Orleans. Address GINDRAT & CO., Agents. 42 3m\*

**A CARD.**—The undersigned begs leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubs) and Swiss Files and Tools; also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English style—which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBEN-MANN Importer of Watchmakers' and Jewellers' Files and Tools and manufacturer of Mathematical Instruments 154 Fulton st. 42 3m\*

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**LEONARD'S MACHINERY DEPOT, 109** Pearl-st. 60 Beaver N. Y.—The subscriber is constantly receiving and offers for sale a great variety of articles connected with the mechanical and manufacturing interest, viz.: Machinists' Tools—engines and hand lathes; iron planing and vertical drilling machines; cutting engines, slotting machines; bolt cutters; slide rests; universal chucks &c. Carpenters' Tools—mortising and tennoning machines; wood planing machines &c. Steam Engines and Boilers from 5 to 100 horse power. Mill Gearing—wrought iron shafting; brass and iron castings made to order. Cotton and Woolen machinery furnished from the best makers. Cotton Gins; hand and power presses. Leather Banding of all widths made in a superior manner; manufacturers' Findings of every description. P. A. LEONARD. 48tf

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**AARON KILBORN,** No. 4 Howard st. New Haven—has on hand and is now finishing five 14 horse power engines; price including boiler and all fixtures \$1200; twelve of from 12 to 6 horse power—all of the most approved patterns—iron bed frame and pulley balance wheel. Galvanized Chain and fixtures for chain pumps always on hand and for sale. 45 10\*