

### TO CORRESPONDENTS.

C. L. A., of D. C.—Yours will appear next week.  
 F. M., of N. H.—We answer in the negative your inquiries about self-acting machines.  
 R. E., of Miss.—We have carefully examined the sketch of your improved lathe, and regret to inform you that it is not patentable. Lathes for cutting gearing, constructed substantially on the same plan, are manufactured by Messrs. Corliss, Nightingale & Co., Providence, R. I.  
 T. M., of Texas—We are much obliged to you for Ogles' Reaper. We shall give the matter a careful analysis.  
 J. H. B., of Ohio—We do not think a patent on the churn could be obtained; we have seen them constructed upon essentially the same plan. The improved mill stone is new, so far as we know.  
 J. R., of N. Y.—A screw placed on each side of the keel is quite old.  
 R. H., of Mass.—The gutta percha interior tube would answer well, but it would so add to expenses that it would not be adopted; this is our opinion. The coating of pipes with gutta percha is not new.  
 J. W. H., of New York—We think your arrangement new and patentable. We have never seen anything essentially like it. You had better send a model of it to this office.  
 N. S., of Miss.—Shear-steel is so called because prepared particularly for making clothiers' shears, and scythes; it is made by laying several bars of common steel together, and heating them in a furnace until they acquire the welding temperature. The bars are then beaten together with forge hammers, after which they are drawn anew into bars.  
 D. A., of Ct.—Mr. Whitechurch is supposed to be the original inventor of the hydraulic ram, and it was afterwards improved by Montgolfier.  
 M. F., of Ga.—By placing a red-hot iron ball in a cylinder containing a vacuum, the heat would be communicated to the cylinder. Light does not require air to conduct it from the sun; it is not possible to form a perfect vacuum in an air pump. We do not know what heat is—we know its effects, that is all.  
 H. T. F., of N. C.—The Daniel's Planing Machines are manufactured by Ball & Rice, at Worcester, Mass.; S. C. Hills is agent for this city, and will furnish you with one of any dimension you may require.  
 J. N., of Va.—You are right; and your very idea for preventing people turning off and letting on the gas, is attached to the gas burner just before our desk. It is not, we believe, generally applied.  
 R. A. G., of N. Y.—Your views of the causes of the strike are not stated clearly; we think you attribute the cause to piece work; if so, the men are entirely to blame.  
 W. C. McA., of N. Y.—We are much obliged to you for the documents, they are of great service to us, and we shall make a good use of them.  
 A. C., of Tenn.—We have received yours in answer to S., and will soon give it attention.  
 S. L., of Me.—Parker's claims can be exacted for the use of the wheel at any time since 1828, to Jan., 1852—not otherwise. The question of the claims of the different water wheel patentees is a complicated business; refuse to pay them all, and stand an action for damages—that is our advice.  
 B. B., of Ohio—We do not think there is any such work in existence. A monthly publication would be required to treat with the progress made in that branch.  
 G. B. B., of Me.—When it is apparent that a party remits a dollar, ostensibly for the Scientific American, but really for the purpose of availing himself of our time and services, in giving him ten times that amount worth of information gratis, he is liable to be disappointed.  
 P. C., of Mo.—The Patent Laws were duly sent.  
 D. S., of Ala.—\$22 received; will ship a mortising machine in a few days, and insure as you direct.  
 S. L. P., of Wis.—Your lathe was sent by the Troy Line on the 23rd.  
 H. & S., of Harrisburg—A mortising machine was forwarded to you, by Adams & Co.'s Express, on the 23rd ult.  
 W. C., of N. Y.—It is a fact that fowls do oil their feathers; the oil they obtain from a receptacle secreted under the feathers near the tail.  
 M. W. St. J., of N. Y.—We are not aware that any manufactory of those scales exists in the city.  
 P. F., of Vt.—Your mode of fastening scythes to the snath is believed to be new and patentable.  
 W. K., of O.—Your excuse for not having continued the Sci. Am., is indeed a good one. The numbers shall be preserved for you as you direct.  
 Money received on account of Patent Office business on the week ending April 24:  
 J. H. G., of O., \$30; F. N. C., of Ill., \$20; M. B., of N. Y., \$30; B. T. N., of Mass., \$32; R. & H., of N. Y., \$45; D. S., of N. Y., \$35; T. G. B., of N. Y., \$45; J. B. C. & Co., of Mass., \$37; E. M. & Co., of Pa., \$62; J. D., of Pa., \$30; W. S. W., of N. Y., \$52; J. O., of N. Y., \$20; D. B., of Pa., \$30; A. B., of O., \$20; J. H. S. & Co., of Pa., \$500; C. H. P., of N. Y., \$50.  
 Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending April 24:  
 S. & H., of N. Y.; F. N. C., of Ill.; J. P. D., of Pa.; H. B., of Ct.; T. G. B., of N. Y.; J. T., of Mass.; H. & H., of N. Y.; C. H. P., of N. Y.

### City Subscribers.

Those of our subscribers who receive their papers from Carriers, and change their location on the 1st of May, will please leave their new address at the office.

### Literary Papers.

We have entered into an arrangement with the publishers of the "American Model Courier," of Philadelphia, and the "American Union," of Boston, which will enable us to furnish either of the two, with the Scientific American, for \$3 per annum. They are literary journals of the first order, and are widely circulated in all sections of the country.  
 Parties cannot be allowed an addition of one of the Literary papers, as above, by remitting a single dollar after paying their year's subscription to the Scientific American; neither can they be permitted to avail themselves of the above conditions for a less term than a full year, and on the precise terms advertised. Money received under other circumstances will be credited in continuance of the Scientific American.

### An Important Paragraph.

Whenever our friends order numbers they have missed—we always send them if we have them on hand. We make this statement to save time and trouble, to which we are subjected in replying when the numbers called for cannot be supplied.  
 The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.  
 Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

### Inventors and their Models.

There are several small cases remaining at the various Express offices in this city, marked to our address, on which the expenses have not been prepaid. We would respectfully inform inventors that the Express charges on ten or a dozen cases daily, from every part of the Union, amounts to no inconsiderable expense, and that we shall, in future refuse to receive packages unless the Express fees have been paid, or the expense otherwise provided for. Parties who reside at a remote distance from the city, and cannot arrange for pre-paying the Express charges, should enclose a sufficient amount in a letter and send by mail.

### 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.

Persons writing us without signing their names to the communication, are considered as not acting in good faith, or as mistaking the rules which govern all newspaper establishments, and are therefore not attended to.

### 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 but 4 numbers, price, in sheets, \$1,—complete sets, bound, \$2.75.  
 Of Volume 6, all; price in sheets, \$2; bound, \$2.75.  
 Of Vol. 7, all back numbers at subscription price.

### Patent Laws, and Guide to Inventors.

We publish, and have for sale, the Patent Laws of the United States. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. Price 121-2 cts. per copy.

## ADVERTISEMENTS.

### Terms of Advertising.

4 lines, for each insertion,	50 cts.
8 " " " " "	\$1.00
12 " " " " "	\$1.50
16 " " " " "	\$2.00

Advertisements exceeding 16 lines cannot be admitted; neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before inserting.

### 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 over the most 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.  
 MUNN & CO., Scientific American Office, 128 Fulton street, New York.

**DAGUERRETYPE CAMERAS.**—A new article, of very superior quality, warranted fully equal to any ever produced in this or any other country; Daguerreotypists visiting this city will find it to their advantage to call at the establishment, 102 William st. L. CHAPMAN, importer and dealer in all kinds of Daguerreotype goods. 33 2\*

**IRON FOUNDERS MATERIALS.**—viz.: good American Pig Iron—grey, mottled and white; No. 1 Scotch Pig Iron, of favorite brands. Pulverized Sea Coal, Anthracite Charcoal, Soapstone, and Black Lead Facings. English and Scotch patent Fire Bricks—plain, arch, and circular, for cupolas. Fire Sand and Fire Clay. Iron and brass moulding sand; Core sand and flour; always on hand and for sale by G. O. ROBERTSON, 155 Water street (corner of Pine), N. Y. 33 6\*

**STEAM ENGINE FOR SALE.**—One of Hoe's upright square Engines for sale, of about five horse-power, price \$150; can be seen running daily. Apply at 47 Dey street, N. Y., in the rear, to C. H. ANDRUS. 33 2\*

**LATHES FOR BROOM HANDLES, Etc.**—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 spools 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.

**MORTISING MACHINE.**—Dear Sirs: I received the Portable Mortising Machine about 3 weeks ago; I have used it, and am very well pleased with it. It is the best plan of a machine of the kind I have ever seen. W. R. MCFARLAND, Nashville, Tenn., 1851.  
 This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20. MUNN & CO.

**JOHN W. GRIFFITHS.**—Ship Builder and Marine Architect, 658 Fourth st., N. Y., furnishes models and draughts of all description of vessels, with the computation of stability, capacity, displacement, and necessary amount of impulsion. Propelling power located and proportionally adapted to the form of the vessel, whether sailing or steaming. Mr. G. also superintends the construction of vessels, and may be consulted upon all subjects pertaining to the various departments of the science or practice of ship building. Draughts forwarded by letter to all parts of the world, and to any desired scale; all letters must be post-paid. 27 13\*

**LEONARD'S MACHINERY DEPOT, 109** Pearl-st. and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers. Also a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 27tf P. A. LEONARD.

**A. B. ELY,** Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13tf

**CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c., and REGULATORS FOR JEWELLERS.**—The undersigned having succeeded in counteracting entirely the influence of the changes of the temperature upon the pendulum, and introduced other important improvements in the construction of clocks, are prepared to furnish an article, superior to any made in the United States, (the highest grade warranted to vary less than two minutes in twelve months). Glass dials for illumination furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island, N. Y.  
 "At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world."—Scientific American.  
 "Mr. Byram is a rare mechanical genius." [Jour. of Commerce. 26tf

**TO LUMBERMEN.**—E. H. & S. E. PARSONS, inventors of the Self-straining and Self-ranging Saw Frames, for saw-mills, combining the advantages of both the muley and gate mills and superior to either, reducing the wear and tear to about one-fourth. The saw will bear as much feed, and is as easily kept in order, and is warranted to saw the same amount of lumber with one-fourth less power. They may be seen in successful operation at the Empire Works, Binghamton, Broome Co., N. Y., where they are manufactured, and at Frankfort, Ky., and Cass, Tenn. For further particular address (post-paid) Wilkesbarre, Pa. 29 5\*

**A CARD.**—The undersigned beg leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers, and manufacturers of all kinds of instruments, to our new and extensive assortment of fine English (Stubbs) and Swiss Files and Tools; also our imported and own manufactured Mathematical Drawing Instruments of Swiss and English styles—which we offer at very reasonable prices. Orders for any kind of instrument will be promptly executed by SIBENMANN & QUARTIER, Importers of Watchmakers' and Jewellers' Files and Tools and manufacturers of Mathematical Instruments, 15 John st. 23 13\*

**TRACY & FALES,** RAILROAD CAR MANUFACTORY—Grove Works, Hartford, Conn. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 26tf

**POST'S PATENT SLIDING DOOR FRONTS**—for stores and Public Buildings; a new, cheap, and simple fixture for securing store fronts, which renders them fire and burglar proof, has been invented and patented by the subscriber, who is now prepared to sell rights. Messrs. Quarterman and Son, 114 John st., N. Y., are general agents. Address, (post-paid) Wm. POST, Architect, Flushing, L. I. 25tf

**NEW HAVEN MANUFACTURING COMPANY,** Tool Builders, New Haven, Conn., (successors to Scranton & Parshey) have now on hand \$25,000 worth of Machinists' Tools, consisting of power planers, to plane from 5 to 12 feet; slide lathes from 6 to 18 feet long; 3 size hand lathes, with or without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; drill presses, index plates, bolt cutters, and 3 size slide rests. The Co. are also manufacturing steam engines. All of the above tools are of the best quality, and are for sale at 25 per cent. less than any other tools in the market. Cuts and list of prices can be had by addressing as above, post-paid. Warehouse No. 12 Platt st., New York, S. C. HILLS, Agent N. H. Man'g Co. 25tf

**PAINTS, &c. &c.**—AMERICAN ATOMIC DRIER, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish.  
 QUARTERMAN & SON, 114 John st., 23tf Painters and Chemists.

**BEARDSLEE'S PATENT PLANING MACHINE** 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 abovementioned foundry—or at his residence No. 764 Broadway, Albany. GEO. W. BEARDSLEE. 23tf

**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 Tenoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 26 tf

**WOOD'S IMPROVED SHINGLE MACHINE**—Patented January 8th 1850, is without doubt the most valuable improvement ever made in this branch of labor-saving machinery. It has been thoroughly tested upon all kinds of timber and so great was the favor with which this machine was held at the last Fair of the American Institute that an unbought premium was awarded to it in preference to any other on exhibition. Persons wishing for rights can address (post-paid) JAMES D. JOHNSON, Bridgeport, Ct.; or W. M. WOOD, Westport, Ct.; All letters will be promptly attended to. 22tf

**THE EXCELSIOR Sand and Emery Papers.**—are offered as new and superior articles, being manufactured by an improved process; the paper is made from the best Manila hemp, and consequently is very strong and lasting; the grit is of the sharpest and most enduring kind, and is firmly attached to the paper with a remarkable evenness of surface; their freedom from ridges, stripes, and other imperfections, recommend them to the notice of consumers. These papers have been used by many of our first mechanics, and are pronounced superior to all others. Every sheet is stamped WM. B. PARSONS, and warranted. Samples furnished at the office, No. 284 Pearl street, New York. WM. B. PARSONS, 14 6m\*

**P. W. GATES'S PATENT DIES FOR CUTTING SCREWS.**—Patented May 8th, 1847.—This Die cuts Screws of any size, V or square thread, by once passing over the iron. Also, Lead Screws for Lathes, Hoisting Screws, &c. All orders for Dies and Taps, with or without machines, will meet with prompt attention by addressing P. W. Gates, or Gates & McKnight, Chicago; Marshall, Bement & Colby, Philadelphia; Woodburn, Light & Co., Worcester, Mass. References—All the principal machine shops in New York, Philadelphia, and Boston. 13 6m\*

**CHARLES F. MANN, FULTON IRON WORKS,** Below the Troy and Greenbush Railroad Depot, Troy, N. Y.—The subscriber builds Steam Engines and Boilers of various patterns and sizes, from three horse power upward; also, his Portable Steam Engine and Boiler combined, occupying little space, economical in fuel, safe, and easily managed; Double Action Lift and Force Pumps; Fixtures and Apparatus for Steam or Water; Tools for Machine Shops; Shafting and Pulleys for Factories. Brass Castings and Machinery made to order at short notice. Steam engines furnished cheaper than can be had elsewhere, of the same quality. 30tf

**N. G. NORCROSS'S ROTARY PLANING MACHINE UNEQUALLED.**—This machine took the first medals awarded to Rotary Planers at the Fair in Boston and at the American Institute, in the Fall of 1850. The Circuit Court, in the Eastern Circuit, held at Boston on the 24th Feb., before his honor Judge Sprague, decided, after a long and tedious litigation of two years, that the Norcross Machine does not infringe the Woodworth Patent; this was on a motion for a permanent injunction, which was refused without ordering a jury trial. Rights to use this patent are for sale by N. G. NORCROSS, Lowell, Mass. 29 8\*

**IMPORTANT TO IRON FOUNDRIES.**—The Galvanic Alloy Manufacturing Co., Nos. 401, 402, and 406 Cherry st., N. Y., will furnish the Aerostatic Fan Blower at \$55, and with patent fitting at \$65, that produce sufficient blast for the longest cupola, melting 3 and 4 tons of iron per hour; taking less than one half the power of those now in use, that cost from \$80 to \$100. The wings, being only about an inch in width (planned upon entirely new and mathematical principles), produce double the blast with half the power of other blowers. Warranted in all cases, or they may be returned and the money refunded. 29tf

**MANUFACTURE OF PATENT WIRE Ropes** and Cables—for inclined planes, suspension bridges, standing rigging, mines, cranes, derrick, lifters &c.; by JOHN A. ROEBLING; Civil Engineer—Trenton N. J. 47 1y\*

**BALLOONS.**—From 1 to 1000 lbs. ascending power, made to order and warranted perfect. Also for sale, Wise's History and Practice of Aeronautics. No library is complete without this work: "It is the best book ever published on this subject."—Scientific Am. Octavo, over 300 pages; 13 plates; price \$2, delivered postage free to any part of the U. S. All letters (post-paid) addressed Lancaster, Pa., promptly attended to. JOHN WISE, Aeronaut. 32 5\*

**LOGAN VAIL & CO.,** No. 9 Gold street, New York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11 1y

**HAWKIN'S Stave Dressing Machine.**—Is now in operation in the city of Milwaukee, Wis., and will dress from 6 to 8000 staves per day, ready for the truss hoops, and at one operation. Rights for States and Counties, and also machines, for sale, apply to WM. HAWKINS, Patentee, Milwaukee, Wis. 15 20\*

**1852 TO 1856.—WOODWORTH'S PATENT** Planing, Tonguing, Grooving, Ra-betting, and Moulding Machines.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price from \$150 to \$760. For rights in the unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 26tf