

TO CORRESPONDENTS.

S. S. B., of N. Y.—We are not acquainted with any person who enamels wrought-iron in this city.

E. H. B., of Ill.—You will see, by our article on Boilers, that the subject is now before Congress; all the information on explosions, necessary for correct action, has been collected.

E. D. D., of N. S.—Yours has been received: steam has been employed for extinguishing fires for a long time; it is a pity that it is not more extensively employed.

S. D., of Conn.—Your plan for conveying packages, etc., through exhausted air-tight tubes, was proposed twenty-five years ago, and we have a book in which the plan is described.

W. B., of N. Y.—The kind of faucet which you illustrated by diagram had its day before you were born, and was discarded.

C. P. W., of Ga.—The articles referred to are continued in various numbers throughout the volume, and we could not go to the trouble of selecting them for you. Your subscription expires at No. 37. You can order volume 6, and have it complete, if you choose.

G. W., of O.—See reply to G. G. H., of Pa., in our last number. The same plan for a churn dasher we have now in our office; it is not patentable.

C. B. B., of Ill.—There are patents on implements for raking grain, by using them in connection with a reaping machine. McCormick has a patent on the seat as arranged in his Harvesting Machine. Your plan for propelling canal boats is believed to be new. A model would be required if you should make an application for a patent.

W. B. H., of N. Y.—There have been several patents taken out already on invalid bedsteads, and it is a matter of some doubt whether your plan is patentable; still it may be. We will examine a model of your invention if you will send one, and advise you further on its receipt.

R. M. W., of Va.—We have never seen the engine alluded to, but if it be one of Hoe's make, and is of the capacity you mention, and is in good condition, it must be astonishingly cheap for that price.

H. W. S., of Ind.—S. C. Hills, No. 12 Platt st, this city, will furnish you with a sash and blind machine if you correspond with him on the subject.

B. C. C., of Ill.—The model of your bridge has just come to hand, and we shall take up your case for execution in about 10 days.

J. T. C., of Ohio.—We do not see anything new in your rotary engine on which we could base a claim for a patent.

N. N., of N. O.—There is no doubt but that your revolving sails for ships is new, as you have them applied, but we question the plan being practicable.

T. J. K., of Va.—We do not know what you refer to; however, the best thing you can do is to address other parties.

E. S. Z., of Md.—You are mistaken; we never publish engravings as advertisements, and your press does not embrace sufficient novelty to be of interest to our readers; besides, the engraving is too poorly executed for our purpose, even if it did illustrate an important invention.

I. S., of S. C.—We have entered Mr. Judges for 6 months, from No. 27, according to your request.

P. F. H., of N. Y.—Certainly, you have the same right to manufacture and sell as if the patent were issued.

J. A., of S. C.—We know of no patent on any apparatus of the kind.

H. B. M., of N. H.—The amount you sent was correct: the paper will be duly sent.

J. Y. B., of La.—As compensation for your services, we have entered your brother's name as subscriber, for six months, as you suggested. We are obliged to you for your repeated favors.

S. N., of O.—Hatching chickens by artificial heat is not much practiced at the present day; it was never a very successful method, although much in vogue a few years ago for amusement and exhibitions.

W. A. R., of N. C.—See page 242, Vol. 7, Sci. Am., for a machine of the description you need; the price we do not know; address the inventor.

C. C. J., of Ala.—We have examined both of your inventions, and perceive no novelty in either, of a patentable character. Both of your plans have been tried, but long since discarded.

O. J. H., of N. Y.—Your drawing is too imperfect for us to understand; send us a model.

G. G. S., of Mass.—You cannot have been a careful reader of the Sci. Am., or you must have observed our remarks, from time to time, on Electro Magnetism as a motive power.

J. G., of Albany, N. Y.—We are much obliged to you for the pamphlet.

H. P., of Mo.—Mr. Guthrie has investigated the causes of explosions very satisfactorily. We wish you could get his pamphlet.

H. K. A., of S. C.—We know not the price of either of the stone dressing machines, but presume the owners of each, would be happy to hear from you.

A. M. G., of S. C.—Since forwarding your caveat on the 15th we have received a check from your bankers for \$40; your model has also come to hand.

G. B., of Ind.—The "London Repertory of Inventions" published Ericsson's plans for an Atmospheric Engine as long ago as 1833, and still was not the first to communicate upon that subject; Sterling's invention dates as far back as 1826.

R. K., of N. Y.—The best way to bring your invention into public notice is to get engravings of it published in our columns.

Money received on account of Patent Office business or the week ending May 15:

G. B. P., of Pa., \$20; V. E. R., of Ill., \$5; H. B., of N. Y., \$20; D. C. T., of N. Y., \$30; J. G., of Mass., \$10; R. R. F. & Son, of N. Y., \$50; J. L., of N. Y., \$40; E. H., Jr., of Mass., \$12.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending May 15:

E. D., of N. Y.; V. E. R., of Ill.; A. J., of N. Y.; E. H., Jr., of Mass.; J. L., of N. Y.

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.

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. Of Volume 6, all; price in sheets, \$2; bound, \$2.75 Of Vol. 7, all back numbers at subscription price.

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.

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.

Table with 3 columns: Lines, Price per insertion, Total price. 4 lines, 50 cts. 8 lines, \$1.00. 12 lines, \$1.50. 16 lines, \$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 any other convenient medium. They should be not 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 Patent. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

TO CONTRACTORS AND ENGINEERS.—A situation is wanted by a Civil and Mechanical Engineer—a good calculator and accurate draughtsman. Address G. D. H., 31 Jay st., N. Y. 1*

TELESCOPE AND POLARISCOPE.—For sale, a five feet reflector, 5 inch aperture; 6 eye-pieces, and dioptric micrometer, mounted with equatorial movement, convenient for the use of a school. A fine Polariscope, with reducing microscope, 30 crystals, all in complete order, with mahogany box, at very low prices, by G. D. HISCOX, 31 Jay street, N. Y.

SHERRY & BYRAM'S AMERICAN CLOCKS (unequaled Time-keepers).—The following extract of a letter from the Rector of an Episcopal church in this State, advises us of an accuracy of time-keeping which, it is believed, has never been equalled by any turret clock in this country or Europe. Messrs. S. & B. having just made arrangements with the Common Council of this city to put up one of their clocks in the City Hall, our citizens may soon expect reliable time: April 22, 1852. It is now about six months since the clock was set going with Bliss & Creighton's time (chronometer makers, New York), and yesterday I went to the city and compared it with theirs myself, and I could see no variation. I can conceive of no time keeper that could do any better. Sherry & Byram, Sag Harbor, L. I. 36 2*

STEAM ENGINES AND TOOLS.—One Horizontal Steam Engine, of superior workmanship, 12 inch cylinder, 3 feet stroke; heavy bed frame of 4,600 lbs., the whole well finished. One Steam Engine, as above, 10 inch cylinder, 3 feet stroke. A sample of the above engines may be seen at work in Mr. Bogardus's, corner Duane and Centre sts., N. Y.; also at Messrs Platt & Bros., Maiden Lane. Two 6 1-2 Planing Machines, of the most improved English pattern, strong and heavy. Six 2 feet 4 in. Planing Machines, will plane 12 inches wide, work with quick motion, well adapted to locomotive tools and engine work. Also a variety of Lathes, Boiler Punches, Presses, and other tools, for sale by the Matteawan Machine Co., Dutchess Co., N. Y., 1 mile from the H. R. R. Depot, at Fishkill. A. L. ACKERMAN, Agent. 36 3*

NOTICE TO IRON FOUNDERS.—The advertiser wishes the situation of "Charge of a Foundry," having had long experience at it, and several years' experience in charge of a machine shop doing new work and repairs. For reference, address A. T. Pierce, Esq., Providence, R. I., post-paid. 36 4*

PEPPER'S IMPROVED KNITTING MACHINES.—The subscriber is prepared to furnish, at short notice, power stocking looms of every size and gauge for making ladies' hose, men's half hose, shirts, and drawers, stockingnet (for lining all kinds of rubber goods), or any other kinds of goods made on stocking looms; samples of goods sent to order, and looms warranted to make goods equal to sample. For further information address JOHN PEPPER, Portsmouth, N. H. 34 4*

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, 135 Water street (corner of Pine), N. Y. 33 6*

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 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. 33 6*

DRAUGHT BOARDS, PATENT—23 by 29 inches, with scales and Paper Fastener combined, for Engineers, Architects, Surveyors, Designers, etc. \$10, with T. Rule. Sent by Express, Direct (post-paid) to H. W. CHAMBERLIN, Pittsfield, Mass. 34 2w*

REGULATORS FOR STEAM ENGINES.—The subscribers having purchased of L. B. Pitcher the exclusive right to make, vend, and use his PATENT HYDRAULIC REGULATOR, are now prepared to attach the same to any Steam Engine or Water Wheel now in use, and warrant them to give a regular and steady motion to the Engine or Wheel; and in any case where they do not work as recommended, will replace the old Regulator at their own expense. Engines making fifty revolutions per minute, can be held, regardless of the kind of work to be performed, so as not to vary more than one half revolution per minute; the more sudden the change of work or steam, the quicker the Regulator moves the valve—a loss or gain of half a revolution will open or close the steam valve from one extreme to the other. THURSTON, GREENE & CO., 34 3* Providence, R. I.

1852 TO 1856.—WOODWORTH'S PATENT Planing, Tongueing, Grooving, Rabeting, 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

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

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

TO BUILDERS AND WORKERS IN WOOD.—We are selling a very simple durable, and effective Mortising Machine for \$20, boxed ready for shipment. We have sold a large number within the last year, and they have given satisfaction. We furnish three chisels and a lever to operate them. Address MUNN & 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., Painters and Chemists. 25tf

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. 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 WM. 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. 234 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, 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, 403, and 405 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, tillers &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

NEW HAVEN MANUFACTURING COMPANY, Tool Builders, New Haven, Conn., (successors to Scranton & Parshley) 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. Munn & Co. 25tf