

TO CORRESPONDENTS.

J. S., of Geo.—All our steamships have pipes so arranged that, by turning a cock, the water is let on to hose and worked by the engines like the feed pump; this is for the purpose of preventing accidents by fire, &c.

W. H. J., of N. C.—You cannot miss it if you employ the Conger wheel; you had better communicate with him in regard to particulars.

N. B. V., of Pa.—Your plan of wheel is not new, oblique paddles are well known, and a model similar to your sketch was in our possession some two years ago, left by a person belonging to Lynn.

J. T., of D. C. W.—We understand your watermotor completely; we are sorry that you did not inform us before you commenced to construct it: the apparatus is more than 2000 years old, we suppose; it is not so good as a water wheel; it will need frequent repairs, and it has six times the friction.

W. D. W., of Mich.—We have seen such an apparatus as you speak of, for indicating the number of revolutions made by a wheel, but we know not where they are made.

T. W. S., of Ohio—We see no objection to your suggestions about ventilation, and hope you may find it convenient to test it fairly.

T. W., of Ga.—The book which you ordered cannot be sent by mail. We will retain it for you subject to your order.

H. & R. F., of Pa.—An application is now pending before the board of examiners, at the Patent Office, for precisely the same arrangement for preventing cars from running off the track as you suggest.

S. K., of N. Y.—The idea of constructing capacious iron cylinders and depositing them at the bottom of rivers, to be used as a tunnel through which to admit of a road-way has been suggested before you. There is a plan now contemplated for connecting France and England by railroad, through a tunnel constructed on precisely the same plan as you mention.

W. E. L., of Ohio—Your invention is not required in such a city as this; you cannot discharge but an exceedingly minute quantity of water from the siphon above the water line, this quantity is due to the excess of pressure on the long leg. We could not tell how profitable it might be, for patents depend a great deal on the way they are managed. If you think you could make it pay, you might secure it by a caveat.

H. S., of N. H.—It is an old plan of raising vessels by inflated bags of air.

L. M., of —In advocating a monument for Robert Fulton, we sincerely expressed our own feelings. There is a line of demarcation, which the christian must beware of stepping over, in denouncing things which do not square with his opinions.

C. L. A., of D. C.—We believe that the air tube to convey mails great distances is impracticable.

J. K., of C. W.—We could not speak personally of the economical value of the presses for making brick by great pressure, we only know that such machines are employed, and have been highly spoken of; Starbuck & Co., machinists, of Troy, N. Y., has made a number of them; they can inform you about them if you write.

H. P. B., of Ind.—Your kind words cheer us, and incite us to labor more assiduously still for the propagation of useful knowledge. Those who appreciate the Sci. Am., are, like yourself, of a higher than common class of intellect.

Money received on account of Patent Office business or the week ending April 10:

M. H. F., of Ct., \$40; S. & H., of N. Y., \$55; C. F. B., of R. I., \$35; J. T., of N. Y., \$30; H. & R. F., of Pa., \$20; A. B., of O., \$20; H. B., of Ct., \$20; P. & M., of Vt., \$27; R. E. L., of Ill., \$55; W. T. R., of Ct., \$22; F. W., of Pa., \$30; D. K. & K., of Pa., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending April 10:

F. & A., of Mass.; W. S., of N. Y.; H. & R. F., of Pa.; W. B. L., of N. Y.; S. B., of N. Y.; F. W., of Pa.; D. K. & K., of Pa.

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.

ADVERTISEMENTS.

Terms of Advertising.

Table with 3 columns: Number of lines, Rate per line, Total rate. 4 lines for each insertion - 50cts. 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 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. MUNN & CO., Scientific American Office, 125 Fulton street, New York.

COTTON MACHINERY FOR SALE—Two Spinning Ring and Traveller Filling Frames, of 264 spindles each; also one Grinding Machine—all of the best quality and in good order; can be seen at the store house of Messrs. B. Carpenter & Co., Newburgh, where they are packed in boxes ready for transportation, and will be sold low to close a concern. Apply at Leonard's Machinery Depot, No. 109 Pearl st., N. Y. THOS. W. CHRYSTIE, Newburgh.

MECHANICAL DRAWINGS—J. H. BAILEY Draughtsman, agent for the sale of patent rights inventions, machinery, &c.; office No. 5 Tryon Row, Harlem Railroad Buildings, opposite City Hall. 312\*

AMERICAN RIFLE—John R. Chapman's work on the American Rifle, bound in muslin, price \$1.25, can be obtained of D. Appleton & Co., 200 Broadway, New York, through the agency of any country bookseller. The Treatise comprises the theory and practice of Rifle Making and Rifle Shooting, and is intended to benefit the enquiring mechanic and marksman. 312\*

PORTER'S PATENT GRADUATING TUYERE, illustrated in the Scientific American of Sept. 6, 1851, is the only TUYERE known that can be instantly adapted the smallest fire desired or the most powerful blast. Warranted to give satisfaction; will last for years, saves from 25 to 50 cents per day, in time and coal, to each forge. All orders from any of the New England States must be addressed to J. W. & N. S. HOARD, Providence, R. I. 1\*

FOR SALE—A new and complete set of Counter Twist Speeder Patterns, the owner having no use for them, will sell them very low. For particulars apply to GEORGE POE, Ellicott's Mills, Maryland. 312\*

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 st., N. Y., in the rear, to C. H. ANDRUS. 312\*

STATE AGRICULTURAL WAREHOUSE—LONGETT & GRIFFING, dealers in Agricultural Implements, No. 25 Cliff st., (near Fulton), New York. Field and Garden Seeds. Guano and other Fertilizers. 29 4\*

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\*

DRAUGHT BOARDS, PATENT—23 by 29 inches, various scales; also Paper Fasteners, all for quick work, superior to fig. 3 in Sci. Am., No. 2 Vol. 3. \$10, with T Rule. Sent by Express, Direct (post-paid) to H. W. CHAMBERLIN, Pittsfield, Mass. 29 4\*

MORSE'S AIR DISTRIBUTOR—For Burning Sawdust and Tan to generate steam—no steam saw mill is complete without it. Rights to use it in the State of New York for sale by L. A. SPALDING, Lockport, N. Y.; or JOHN A. CAMPBELL, Buffalo, N. Y. 28 4

PORTER'S GRADUATING VALVE TUYERE—Illustrated in this paper Sept. 6, 1851, gives a sure, quick, and clean heat, and saves full 25 cts. per day to each fire. For sale, wholesale and retail, at No. 9 Gold st. W. J. & J. H. BURNETT. 28 4\*

SCHENCK'S MACHINERY DEPOT, No. 64 Courtland st., N. Y.—Has on hand a great variety of Slide and Hand Lathes, Upright Drills, Steam Engines, of 3 1/2 and 6 horse power, and will receive order for engines of any size; Universal Chucks, Iron Planers, White's Patent Lathe for turning Railroad Car Axles, Hand Punches, and Shears; Fairbanks & Son's Scut and Scouring Machines; Fairman's Chuck Lathe for Boring Car Wheels, &c., all of which I will sell as low and upon as accommodating terms as any house in the city. 27 5\* SAM. B. SCHENCK.

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.

STEAM ENGINES AND BOILERS.—The patentee is now ready to supply orders for steam engines with Ayer's Patent Improved Boiler of any size required. These boilers occupy but little space, can be set up without brick work, and will make more steam with the same fuel than any other boilers. A self-acting feeder furnishes a constant supply of water, preventing thereby, in a great degree, the danger of explosion. Where doubts are entertained as to the superiority of these boilers, I will be content to receive for the right one-fourth of the value of the fuel saved by their use. Portable engines furnished to order. E. AYER, Patentee, Norwich, Conn. 26 7\*

JOHN W. GRIFFITHS—Ship Builder and Marine Architect, 655 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 69 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. 27 11\* P. A. LEONARD.

BAILEY'S LATHE—For Turning Broom and other Handles, Chair Stuff, straight, swelled, or tapering, warranted to do twice the work of any other lathe. Address L. A. SPALDING, Lockport, N. Y. 25 4

A. B. ELY, Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13 11\*

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. 26 11\*

THE SUBSCRIBER is now finishing four 14 horse engines, with boiler and apparatus all complete—price \$1200 each. Several 6 horse engines extremely low; also several of smaller capacity, completely; also, several power planers, now finishing. Galvanized chain for water elevators, and all fixtures—price low—wholesale and retail. Orders, post-paid, will receive prompt attention. AARON KILBORN, No. 4 Howard st., New Haven, Ct. 23 10\*

TO FELLOE AND SNATH MAKERS—The undersigned having purchased the entire right of A. W. Johnson, for his machine for bending carriage felloes, &c., are now prepared to sell State or county rights for said machine; having used said machine for several years, we know it to be a saving in timber of 30 per cent, and more expeditious. Persons can see one of the machines at work at the manufactory of W. S. Johnson & Co., St. George's, Del.; also felloes of all kinds. Shafts and carriage stuff always on hand, and at prices to suit dealers in the above. WM. G. JOHNSTON & Co., St. George's, Del. 22 10\*

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 instruments 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\*

IRON FOUNDERS MATERIALS—viz.: fine pulverized Sea Coal, Anthracite and Charcoal, Black Lead and Soapstone Facings. Iron and brass moulding sand; Core sand and flour; English Fire Bricks for cupolas, &c. Fire Sand and Clay—for sale by G. O. ROBERTSON Liberty place, (near the Post Office) N. Y. 23 10\*

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. 26 11\*

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. 25 11\*

NEW HAVEN MANUFACTURING COMPANY, Tool Builders, New Haven, Conn., (successors to Soranton & Parsley) 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. 25 11\*

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. 23 11\*

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 fitted 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. 23 11\*

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; Morticing 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 11\*

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. 22 11\*

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. 187 Water street, New York. WM. B. PARSONS, Sole Proprietor. 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. 30 11\*

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. 29 11\*

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

PATENT CAR AXLE LATHE—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 pounds, price \$600. I will furnish a man with each lathe, who will turn and finish axles for 50 cents each, if desired. I have also for sale my patent engine screw lathe, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1500 lbs., price \$225. The above lathe warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 7 6m\*

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 Gummies 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, 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. 26 11\*