

TO CORRESPONDENTS.

J. R., of Mass.—You cannot get a tough metal mixed with tin and zinc—it will not do.

S. N. P., of Mo.—We have never seen the same plan of the float and weight, as the one you have sent.

F. C. W., of Ohio.—There is not the slightest chance for you to obtain a patent on the washing machine; similar arrangements of crank levers and driving wheels are and have been common for years.

E. S. Z., of Md.—You cannot protect yourself in the manufacture of such an article as you speak of; it would be common to all.

A. S., of N. H.—It is doubtful about your being able to obtain a patent. We have seen matches set upon blocks where no waste of wood took place in the preparation.

J. T. W., of Ohio.—We have transmitted your sketch to Mr. Smith for his attention.

R. & S. H., of Ind.—We suppose the Fair of the American Institute will open about the 1st of October; no announcements have as yet been made.

A. J. G., of N. Y.—A fee of \$30, paid into the Patent Office, covers as many claims as can be made on the machine.

J. M. T., of Ill.—We thank you for the information in regard to the reaper; we would use it, but it would involve us in a personal matter, which we always avoid.

C. A. B., of Texas.—We have requested a manufacturer in this city to give such information about the magic lanterns as you desire.

W. M., of Geo.—Reuben Rich's Water Wheel was patented July, 1842.

L. S., of Ohio.—We do not know where you can obtain the publications mentioned in yours of the 18th.

W. P., of Mo.—There is nothing new in your chain paddle wheel. The plan is well known and has been for many years.

P. W. C., of Eastville.—We think Mr. Verleger's invention different from Everett's.

B. W. G., of Ct.—The application of gutta percha to the manufacture of chess-men is not patentable. It could be employed for that purpose, mixed with some non-conducting substance like black lead, as gutta percha softens under slight heat.

A. C., of Ct.—The arrangement for supplying the boiler with water is not patentable, for it has been often done upon the same principle. The principle of Lord Dundonald's Boiler, last week, and Montgomery's this week, in the Sci. Am., embrace that of yours in relation to the circulation of the water.

J. B., of N. J.—If you mean to work the boat by steam, it would be cheaper to propel the boat at once by having the engine on board; but it may not be for the purpose you want it; we shall try and find a plan.

Money received on account of Patent Office business of the week ending March 27.

W. S., of N. Y. \$30; J. S. & S. J. M., of Ct., \$20; M. & T., of Mass., \$10; F. & H., of Mass., \$20; E. D., of N. Y., \$65; C. W. G., of N. Y., \$25; R. F. W., of N. Y., \$25; T. J. E., of N. Y., \$30; V. E. R., of Ill., \$60; J. H., of O., \$50; W. McQ., of N. Y., \$30; N. B., of R. I., \$30; D. S., of N. Y., \$25; J. A. B., of N. Y., \$20; J. T., of N. Y., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending March 27: W. T. P. & R., of N. Y.; J. S. & S. J. M., of Ct.; E. H., of N. Y.; C. W. G., of N. Y.; D. S., of N. Y.; J. A. B., of N. Y.; H. G. DeW., of N. Y.

New Arrangement.

Several of our readers have expressed a wish to subscribe for some literary journal in connection with the Scientific American, not feeling able to take both. 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.

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, and money received under such circumstances will be credited in continuance of the Scientific American.

An Important Paragraph.

Whenever our friends order machines 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: Lines, Rate per line, Total cost. 4 lines for each insertion, 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.

ZINC PAINTS.—THE NEW JERSEY ZINC CO. will supply their pure Zinc Paints at the following prices:—No. 1, white ground in oil, 9c per lb.; No. 2, do., 8c per lb.; No. 3, do., 7c per lb.; brown and black, 5 1-2c per lb.; dry white zinc 6c per lb.

STATE AGRICULTURAL WAREHOUSE.—LONGETT & GRIFFING, dealers in Agricultural Implements, No. 25 Cliff st., (near Fulton), New York.

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.

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.

DEAUGHT BOARDS, PATENT.—23 by 29 inches, various scales; also Paper Pasteners, all for quick work, superior to fig. 3 in Sci. Am., No. 2 Vol. 3.

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.

INSTITUTE FOR SURVEYORS AND ENGINEERS, West Bloomfield, N. J.—The next session of this Institute will commence May 1st, and continue five months. The course of study embraces Trigonometry, Mensuration of Surfaces and Solids, Heights, and Distances; Navigation, Surveying, Conic Sections, Descriptive and Spherical Geometry, Mechanics, Theoretical Mechanics, Chemistry, Industrial Chemistry, Physics, Industrial Physics, Mechanical Philosophy, Architecture, Steam Engines, Mechanical and Architectural Drawing, &c., &c.

MECHANICAL DRAWINGS.—J. H. BAILEY, draughtsman, agent for the sale of patent rights; inventions, machinery, &c.; office Tryon Row, Harlem Railroad Buildings, opposite City Hall.

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.

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

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. & H. BURNETT.

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 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; 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.

MORTISING MACHINE.—Dear Sir: 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.

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 boiler.

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.

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. and 60 Beaver, N. Y.—Leather Banding Machinery, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers.

COTTON MACHINERY.—One new Ring and Traverser Warp Frame, 156 spindles, and three new Looms, built in the best manner by the Meehan Co., and for sale at 60 Beaver st., N. Y., by 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.

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 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.

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.

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—

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.

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.

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.

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.

DRILLING MACHINES.—Self-Acting Drilling Machines, of the best construction, capable of drilling holes from one-eighth inch to three inches diameter, with a suitable feed, manufactured and for sale at the Atlas Foundry, corner of Green and Wayne sts., Jersey City. JOHN D. WARD.

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.

PAINTS, &c. &c.—American Atomic Drier, Graining Color, Anti-Friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., Painters and Chemists.

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.

MALLEABLE IRON FOUNDRY, EASTON, Mass.—The subscriber continues to manufacture castings of every variety, for machinery and other purposes, of the best quality, at the above establishment. We have facilities for making castings 5-12 feet in length. Persons wishing castings can send patterns to Eastern Express, Boston, Mass. All letters will be promptly attended to.

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.

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.

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.

MACHINIST'S TOOLS.—Marshall, Bement & Colby, (successors to E. D. Marshall & Co.) Calowhill street, west of Schuylkill Third, Philadelphia, Pa., are prepared to make to order, and keep on hand Machinists' Tools, such as Planing and Compound Planing Machines, on a new and improved plan, Slide and Hand Lathes, Upright and Horizontal Drills, Upright Boring Machines, Improved Screw and Bolt Cutting Machines, with P. W. Gates' Patent Dies and Taps, or with the common Dies, Gear Cutting Engines, Slotting and Paring Machines. Also keep on hand Washburn & Whiton's Patent Scroll Chucks, of all sizes. All orders by letter or otherwise will receive their prompt attention. E. D. MARSHALL, WM. B. BEMENT, G. A. COLBY.

CHAS. W. COPELAND, Consulting and Mechanical Engineer, Surveyor of Steam Machinery, &c., No. 68 Broadway, N. Y., superintends the construction of steam vessels and steam engines, and machinery of every description; specifications and contracts prepared; also general plans and drawings in detail furnished. Steam engines surveyed and valued, and condition reported. Mr. C. also acts as agent for the purchase and sale of steam vessels, steam engines, boilers, &c.

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.

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.

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.

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.

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.