

TO CORRESPONDENTS.

A. R. Appleton will please inform us in what part of the world he resides—his letter failed to state this important point. Upon receipt of this information we shall address him.

J. N., of Wis.—Your employment of molten lead to generate the steam, will not answer, for the heat is 594 degs, and water will become spheroidal at 500 degs, and, beside, no fuel could be saved, for that is just in proportion to raising a certain quantity of steam in a given time. We cannot see how you could gain anything by your tier of cylinders in the frame, for there is no power lost by the static pressure in the boiler. Except in using steam expansively, there is no benefit derived from an increase of cylinders; and to use it expansively, we think Wolfe's plan the best.

J. S. of N. Y.—We do not know of a single portable baker's oven. There are none made in this city. The only substitute for them is the small summer furnace ovens sold at all the stove stores.

B. D. J., of N. C.—Oil is better for the eyes than candles, as the light is more steady. Tallow candles are cheaper than sperm. There is no way to make tallow candles last longer except by mixing some wax or good rosin with tallow. If your eyes are subject to be hurt by candle light, your only hope is to read or work less by candle light.

A. S., of N. H.—Your claims would be made on the machine and not on the form of the card, as we judge from your statement that the machine is your invention. A small model will first be required. \$2 received.

W. S., of Ohio.—We have never seen a railroad truck constructed like yours, and have no doubt a patent could be secured. Experiments alone can establish its practicability.

W. G. H., of Pa.—We do not know who makes the machinery you speak of. Perhaps Jacob Gray, of Scotia, N. Y., can inform you.

K. H., of N. Y.—We have seen unsuccessful experiments made with the apparatus, and believe it impracticable. This is but a reiteration of our frequently expressed opinions.

G. C., of Ohio.—Lime is better than hydraulic cement to protect iron in a dry situation. It protects the iron by its becoming a carbonate after it is exposed to the air for some time, it absorbs carbonic acid gas from the atmosphere and thus protects the iron. But it is not a perfect protector.

E. T., Jr., of Va.—We have examined your sketch of improvements in high pressure engines. The loss would equal the gain. It will meet with the same resistance from the atmosphere as it escapes from the pipe, &c. There can be no gain excepting in cases where the steam might be suffered to expand more than it usually is, there is a patent in existence for the power of a wheel placed in the condenser of a condensing engine, but it is considered of no moment whatever.

A. F. W., of Pa.—We do not know where a Fourneyron wheel is running on a high fall; but the Lowell Machine Co. make them. It does not infringe on any patent. Whitelaw & Stirratt's wheel, made at Cold Spring, N. Y., is a good one.

J. B., of Pa.—Your Electro-Magnetic Engine is not new; it is well known to us, although we have no doubt but it is new to you.

J. M. H., of C.—Plumbago, mixed with grease of all kinds, for lubricating journals, has long been known and its qualities understood. If your composition is entirely new, and is so useful, you can get a patent. If your lining for the journal boxes is new and useful you can get a patent. The Babbitt Metal Boxes are patented.

J. M., of Minnesota.—We highly appreciate your well expressed compliment to the Scientific American. Permit us to wish you health, happiness, and prosperity, the richest earthly gifts to man.

J. C. B., of Texas.—We have submitted your letter to the proprietors of the Stone Dressing Machine, with a request that they will answer your enquiries.

E. L., of O.—If you want information relative to wind mills you are advised to correspond with Geo. Page, Baltimore, Md.

J. K. G., of Canada.—You will notice that we do not publish engravings of stoves in our columns, the reason is that there are so many that we could not profitably occupy our columns with engravings of them, as stove dealers are anxious to give all possible publicity to their improvements, and we could not refuse one and accept another.

Money received on account of Patent Office business for the week ending February 14.

V. P. & B. K., of N. Y. \$50; H. & B., of N. J. \$30; G. S., of N. Y. \$30; McD. & B., of Pa. \$55; P. F. H., of N. Y. \$30; H. U., of N. Y. \$10; J. J., of N. Y. \$70; S. B., of N. Y. \$25; N. W., of Mass. \$53; S. G., of N. Y. \$35; W. R., of R. L. \$12; E. B., of Pa. \$35; S. & S., of Conn. \$25; R. A. V., of N. Y. \$15.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Feb. 14.—

H. & B., of N. J.; E. P. G., of N. Y.; C. S., of S. C.; N. W., of Mass.; S. & S., of Conn.; R. A. V. 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. They are literary journals of the first order, and are widely circulated in all sections of the country.

ADVERTISEMENTS.

Terms of Advertising.

One square of 8 lines, 50 cents for each insertion. " 12 lines, 75 cts., " " " 16 lines, \$1.00 " "

Advertisements should not exceed 16 lines, and cuts should not be inserted in connection with them at any price.

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. B. McFARLAND. Nashville, Tenn., 1851. This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20. MUNN & CO.

VERY IMPORTANT.—To Blacksmiths, Machinists, and Speculators.—The undersigned owns one-half of the patent, for the United States, in J. Van Brocklin's Machine for Heading Bolts, and is now exhibiting the same at No. 45 Gold st, from 1 to 4 o'clock, P. M. It can make from 4 to 6 plain or ornamental heads per minute, by hand, and with perfect accuracy. Its principle is well adapted for making all kinds of Bolts, from the smallest to the largest. The subscriber would sell his whole interest in the patent on reasonable terms, as other business claims his attention, but for the present will dispose of rights as desired. Call and see its operation, or address S. McLEAN, No. 118 Tammany Hall. 1*

TO ENGINEERS, RAILROAD COMPANIES OR MANUFACTURERS.—The advertiser, who is a thorough Engineer and Machinist, and has been extensively engaged in business (steam engines, and heavy machinery) for several years past, wants a situation as Superintendent, Manager or Draughtsman and Bookkeeper, in any operation requiring such qualifications. No objection to going to any part of the United States. Satisfactory testimonials can be produced as to qualifications and moral character. Communications addressed to THOMAS FRANCIS, No. 30 North Tenth st, Philadelphia, will receive prompt attention. 23 2*

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 (Stubbs) and Swiss Files and Tools; also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English styles—which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBENMANN, Importer of Watchmakers' and Jewellers' Files and Tools and manufacturer of Mathematical Instruments, 154 Fulton st. 2313*

MACHINERY.—1 Screw Bolt Cutting Machine nearly new; 2 new Deik's Patent Punches, No. 2, suitable for boiler makers; 2 small ditto, and 1 bank-note or tobacco press, Dick's patent. One steam pump for supplying water to a 50 horse-power boiler, and several second-hand engines, different sizes, for sale at low prices by WM. D. ANDREWS, 187 Cherry and 452 Water sts., N. Y. 23 2*

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*

1852 TO 1856.—WOODWORTH'S PATENT Planing, Tonguing, Grooving, Rabbeting, 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 Westchester County, and the other unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 231f

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*

DESIRABLE PROPERTY FOR SALE.—The DeKalb Manufacturing Co. will offer for sale their Cotton Factory, Corn Mill, and Tannery, near Camden, S. C. The situation is pleasant and healthy, offering a very desirable investment for capitalists; the water-power is amply sufficient for all purposes; within one mile of the terminus of the Camden and South Carolina R. R., affording daily opportunity for the shipment of goods. The Cotton Factory is now in operation, making Osnaburgs and Yarns, and contains 1680 spindles, 2030-inch cards, and 40 looms, in good condition, with machine shop attached, with lathes, cutting engines, etc. The Corn Mill received last year, as toll, 1400 bush. of corn; the Tannery has 36 vats, and bark mill. Will be sold on a credit of 1, 2, and 3 years, at public sale, 1st March; open for private sale until then Apply to THOS. LANG or WM. ANDERSON, Camden, S. C. 22 3

TO STAIR BUILDERS.—The "UNIVERSAL STAIR BUILDER," just published by R. A. Cupper, Architect, New York, is a new treatise on the construction of Stair-Cases and Hand-Rails, showing plans of the various forms of Stairs, with a new method of sawing the twist part of any hand-rail and joints square from the face of the plank, and to a parallel width, the same as for any horizontal work—which can be done at the saw-mill for one-sixth of what it cost by hand; the saving of material and labor is from 50 to 100 per cent. This system is now adopted in New York, Philadelphia, and Boston. It is pronounced by the most scientific Stair Builders to be the greatest discovery ever made. Price \$6. For sale by Wm. Gowans, 178 Fulton st., N. Y.; Benj. Greene, 124 Washington st., Boston, and 240 West 26th st., N. Y. Books forwarded to any part of the United States on receipt of the money. 22 3*

VENTILATION.—Mr. Ruttan, of Coburg, Canada, is desirous of an opportunity to direct the erection (for ventilation) of a good dwelling or school house in the city of New York. For particulars inquire at the Scientific American Office. 15 10*

MACHINIST'S TOOLS.—Marshall, Bement & Colby, (successors to E. D. Marshall & Co.) Callowhill street, west of Schuylkill Third, Philadelphia, Pa., are prepared to make to order, and keep on hand Machinist's 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 Planing 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. 21 10*

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. 21 10*

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 12 feet in length. Persons wishing castings can send patterns to Eastern Express, Boston, Mass. All letters will be promptly attended to. DANIEL BELCHER. 21 10*

CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c., and REGULATORS FOR JEWELLERS.—The undersigned having succeeded in counteracting effectually 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 in every respect (the highest grade warranted to vary less than two minutes in a year) to any made in the United States. Ample opportunity will be afforded to test their qualities. Glass (illuminated) dials of the most beautiful description 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. 19f.

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' PATENT DIES FOR CUTTING SCREWS.—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*

METALLIC LETTERS AND FIGURES FOR PATTERNS.—Price 3cts. 3cts. 3cts. 3cts. 4cts. 4cts. Size, 5-16 3-8 7-16 1-2 9-16 5-8 3-4 6cts. 1 in.; 7cts., 1-1 4 in.; 8cts., 1-1 2 in.; 10cts., 2 in. Also Gothic Style: 3cts., 1-4 in.; 4cts., 1-2 inch. Manufactured by COWING & CO., Seneca Falls, N. Y. Orders solicited. They can be sent to any part of the Union, either by Mail or Express, as all packages are weighed and sent the cheapest way. 22 4*

TO MACHINISTS.—William B. Parsons, Manufacturer of the "Excelsior" Sand and Emery Paper, has on hand a very superior article of Corundum, suitable for emery purposes. This has been thoroughly tested at the Nashua Lock Works, Nashua, New Hampshire, and proved to be second only to emery, and perfectly free from dust and extra grains of grit. For sale in any quantity, and all numbers, at 187 Water st., N. Y. WILLIAM B. PARSONS. 20 4*

TO ARCHITECTS, SCULPTORS, &c.—The Commissioners of the Greene and Pulaski Monument Lottery Fund, offer Three Hundred Dollars for an approved design for a Monument, to be erected to the memory of Count Pulaski, in Chippewa Square, Savannah. Architects, Sculptors, Designers, &c., are invited to offer plans and specifications for selection, and to evince their own taste and judgment as to design, with no other limit than the cost, which must not exceed \$17,000. Designs will be received until the 1st day of April, 1852, by the subscriber, from whom any further information may be had. WM. P. BOWEN, Secretary. Savannah, Geo., Jan. 13, 1852. 21 6*

TO INVENTORS.—I beg respectfully to suggest that the establishment of a National Inventor's Institute, with regularly organized branches, would be the best means to assist your efforts to superintend your interests, and protect your patent rights. JAMES NIXON, Potosi, Wisconsin. 21 5*

ONE DOUBLE ENGINE of six-horse power, second-hand, used about one year; the size of cylinders, 4 inch bore and 12 inch stroke, and furnished with pump, regulator, and all attachments; the boiler is horizontal tubular, 7 feet long, 3 1-2 inches in diameter, and requires no brick to set it, the fire being made inside the boiler. The above engine will be sold for \$400 cash, delivered in New York. MUNN & CO. 11f

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*

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. 9f

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. 23f

WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanics' Tools of all descriptions. Orders respectfully solicited and punctually attended to. Washington Factory, Newark, N. J. 7 20*

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. 23f

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 Machine; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Morticing and Tenoning 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. 13 f

WOODWORTH'S PLANING MACHINE.—For sale, the right to use this justly celebrated labor-saving machine in the following States, viz., Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama, and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 208 Broadway. 17 12*

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, New Haven, Ct.; or WM. WOOD, Westport, Ct. All letters will be promptly attended to. 22f

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 tenoning 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. 10f

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*

RAILROAD CAR MANUFACTORY.—TRACY & 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 surpassed. JOHN R. TRACY, THOMAS J. FALES. 14f.

MCCORMICK'S PATENT REAPERS AND MOWERS.—1700 of these machines, for which the great Medal of the World's Fair was awarded, are being manufactured at Chicago, Ill, with the intention of supplying the South-eastern States for the next harvest. The gold medal of the Chicago Institute was recently awarded for this Reaper and Mower, tested against two other mowers, in cutting prairie grass; and the first premium of the State Agricultural Societies of Wisconsin, Michigan and Pennsylvania, were also awarded at their late Fairs. Price \$120 at Chicago, and \$122 delivered at Philadelphia; terms otherwise accommodating. 9f

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 Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11f

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*

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