

TO CORRESPONDENTS.

H. L. W., of Miss.—There can be no doubt but it appears rational that a strong iron casing would nullify the effects of a steam boiler explosion in a measure, but we, nor any other person, are in possession of data in respect to the casing. Experiment alone, as you suggest, can determine this.

W. M. F., of Pa.—We have examined your sketches of the wheel and the description. We cannot see where you can get more power; but we have never seen a wheel like it; it is not an infringement on any other that we know of.

M. R., of Me.—It would perhaps be well for you to file a caveat, until your model is completed. You know the value of the improvement, and the sooner you have it protected by a patent, so much the better for you.

W. A. R., of —.—Your plan of using a highly heated vessel and ejecting a small quantity of water continually into it, for the purpose of raising steam, is not new; the same plan is described in Hebert, but the principle is not correct. Your plan of a compact condenser is new to us, but we prefer the old one.

G. S. C., of N. Y.—If there be any novelty in your "Rotary" we have failed to discover it.

F. C., of N. Y.—From the description you give of your "Blower" we are inclined to think there is nothing patentable in it. If you will send us a model we will examine your invention further and advise you of the result of our investigation, however.

G. M., Jr., of Ill.—The plan you propose for raising water for such emergencies as extinguishing fire aboard of vessels is impracticable. We should dislike to take up your case that has been rejected, and in the event of our consenting to do so we should charge you just the same as if it were a new application, viz., \$25.

W. P. F., of Ga.—Harris & Son, at Elizabethtown, N. J., manufacture and sell a good smut machine.

A. J. C., of La.—In volume 5, Sci. Am., you will see a propeller wheel illustrated, which is precisely like yours; it was patented in England in 1826, and then abandoned.

G. G. S., of Mass.—Your spirit is commendable, your object and aims are noble. Go on in your good resolves; you have yet to study and learn much, but your labor will not return unto you void.

R. P., of Me.—We replied to you understandingly by mail, and your diagram since received does not tend to change our opinion as formerly expressed.

B. & C., of Auburn, N. Y.—Some points in your press, as we understand it from so indefinite a description as you sent us, are new and patentable, but we could not specify to you what claims to make without a better understanding of the machine.

E. S. P., of Va.—You will find that very subject discussed, in some of the back numbers which we have sent you.

W. H., of Wis.—It is not applicable to an ordinary engine, and in order to test its merits, it would require an engine constructed expressly for it.

H. T. P., of S. C.—Your letter enclosing \$20 came safely to hand.

C. W. G., of N. Y.—Your letter covering \$10 came duly.

D. W., of Mass.—Your letter with \$6 was received.

B. O'B., of N. Y.—To obtain a patent for the Canada, the law requires that the applicant shall be the inventor and a resident subject. You can obtain an English patent, including the colonies, by application to the office in London, which is the best course you can pursue. We can attend to it at any time when you are prepared.

L. K., of N. Y.—We cannot execute the engravings so well from the daguerreotype as from a model. We prefer the Letters Patent, but can get along well with a model.

J. B. C., of Tenn.—The remittance of \$10 came duly to hand. We have not yet received Mr. Thompson's model. We omit the article referred to, not wishing to continue a controversy.

R. E. A., of Mass.—There is now a bill before the English Parliament modifying the Patent Laws considerable. It is, however, very doubtful whether it will pass or not. Legislators care little or nothing for inventors. We say it in humiliation and shame in view of their conduct.

G. E., of Va.—You had better hurry along the model as fast as possible. It is dangerous to delay with any invention, as there are always plenty of sharpers on the lookout. No other person has corresponded with us.

J. A. P., of N. Y.—None of the engravings named in yours of the 9th inst. are in our possession; they were executed for the inventors, and have by them been taken away, otherwise we should have been glad to have furnished them.

C. G., of Boston.—Dick's Press has been highly spoken of, and for many purposes we think well of it. Engravings, we notice, have just appeared in "Le Genie Industriel," an interesting scientific monthly, by Armengaud & Bro., Paris.

Money received on account of Patent Office business or the week ending May 22:

A. M. G., of S. C., \$40; S. & M., of N. J., \$25; E. of N. Y., \$25; T. H. D., of N. H., \$10; J. C., of 65; M. B., of N. Y., \$20; W. S. H., of N. Y., \$10; D. S., of N. Y., \$20; P. McK., of N. Y., \$10; E. C. H., of O., \$48.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending May 22:

R. R. F. & Co., of N. Y. (3 cases); G. P., of N. Y.; S. & M., of N. J.; L. A. S., of Pa.; M. B., of N. Y.; S. M., of N. Y.; D. S., of N. Y.; A. B., of N. J.

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 interqueries 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 Law, 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 12 1/2 cts. per copy.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines of advertisement, Price per line. 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 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 especial 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.

MACHINERY IN THE GREAT EXHIBITION

22 Copperplate Engravings of the following subjects, and numerous Woodcuts, are given in the Volume of the ARTIZAN for 1851, price \$3.50: Retort Settings (Croll's Patent) and Wet Lime Purifiers, for the Great Central Gas Works; Comparison of recent Improvement in Permanent Ways; Ryder's Forging Machine; Brown's Blooming Machine; Curvilinear Planing and Shaping Machine; Ericsson's Caloric Engine; Hydraulic Mine Lifting Machinery; Pumping Engine, by M. Mazeline; Samuel's Locomotive Feed Engine; Galloway's Patent Smoke-Consuming Water-Tube Boilers and Engines; Ship-ton's Pendulous Engine; Details of the Emperor of Russia's Yacht "Peterhoff," by Messrs. Rennie, and of the Prussian War Steamer "Nix," armed on Mr. Scott Russell's Patent System; Carlson's Direct Acting Engines for the Screw; Long's Steering Apparatus; Details of a Swedish Ornamental Villa; Wigginton's Model Dwellings, ventilated on the best principle; large sheet of Designs for Architectural Ornaments in Fire-clay; Result of Experiments of the Commission on the Strength of Iron.

The four preceding volumes may also be had, containing an immense amount of practical information on Civil and Mechanical Engineering, Steam Navigation, Shipbuilding, &c. The Artizan may be had of any bookseller in the United States, by order, or any person forwarding an order for 16 shillings sterling (\$3.90) on any London house, will have it sent for a year by post. Address W. K. WHITEHEAD, Consulting Engineer, office of the Artizan Journal, 69 Cornhill, London. 37 4eov

CHILDERS & TANTER, Worcester Mass., Builders of Daniel's Planing Machines, either with or without modern improvements. This planer is the greatest labor-saving Planing Machine ever applied to both square timber and boards. Read's feed motion (perfectly practical for all purposes without extra charge) gives the advantage of planing when the carriage is moving both forward and back. The carriage may be run rapid or slow, either way; is drawn from its centre underneath, the pinion working above the rack, secure from shavings, and no belts or gears under the machine. Built heavy and substantial at reasonable notice. 37 3*

DRAGHT BOARDS, PATENT.—Which dispense mostly with the use of Case Instruments, which at best are tedious. The Board combines the use of several valuable instruments. \$10, complete. Sent by Express, Direct (post-paid) to H. W. CHAMBERLIN, Pittsfield, Mass. 37 2*

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 CARPENTERS AND DEALERS IN PATENT RIGHTS.—The whole right and title to the Patent Blind and Shutter Fastener, which is illustrated in this week's number of the Scientific American, will be sold cheap to a cash customer, or the owner of the patent will sell single States (not in smaller quantities) if desired. The invention is a good one; the claims are broad, and it is not an infringement of any existing patent, as decided by parties who have investigated the matter thoroughly. For particulars concerning the purchase of rights, etc., address "DESAIX," box 773, P. O., New York City. 1*

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 Pumps, Presses, and other tools, for sale by the Matteawan Machine Co., Duchess 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., Norwich, Ct., post-paid. 36 4*

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 POLARSCOPE.—For sale, a five feet reflector, 5 inch aperture; 6 eyepieces, and dioptric micrometer, mounted with equatorial movement, convenient for the use of a school. A fine Polaroscope, 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. 1*

LEPPER'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, stocking net (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 PEP- PER, Portsmouth, N. H. 34 4*

IRON FOUNDERS MATERIALS.—viz.: good American Pig Iron—gray, 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.

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 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 descriptions of vessels, with the computation of stability, capacity, displacement, and necessary amount of propulsion. 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 Machinery, 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.

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.

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. 23tf

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 above-named 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 freeness 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*

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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, 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, tilters &c.; by JOHN A. ROEBLING; Civil Engineer—Trenton N. J. 47 1y*

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

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

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 & 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. 23tf