

TO CORRESPONDENTS.

J. G. S., of Ohio—We do not know of any pile driving machinery for sale, and as for the boiler you can obtain one from any manufacturer of steam engines and boilers.

S. E., of Mass.—We think your views are correctly stated, and have no doubt but that the plan will work well. It is not new, however, and no patent can be secured for it.

W. B. C., of Ill.—The pressure of the atmosphere will be obtained where it can act, but nowhere else; a vacuum must have been formed some way for your water to rise.

J. H. D., of N. Y.—We have examined your plan of a steam brake; it will operate. Many plans have been tried before for making all the brakes act at once, and we do not see any new feature in this. R. Stephenson invented a steam-brake four years ago; yours is different, but we do not like it so well.

R. M., of D. C.—It has been our fortune to know, personally, a great deal about the practicability of steam carriages on common roads, and we are convinced they will not answer. The accounts of Gurney's experiments are certainly too highly colored. Your request has been complied with; it is so easy to test a steam carriage on a common road, or plank road, that those who have confidence in them are to blame for not demonstrating their superiority by practical operation.

G. G. H., of Pa.—Fountain pens, constructed to act upon precisely the same principle as you propose, have been in use for a long time. Brakes constructed as you propose are impracticable, a vehicle would be soon wrecked to pieces by such sudden concussions. Thanks for the remittance.

S. L., of Ill.—In replying to you under the head of correspondence, in No. 32 Sci. Am., we should have said Mr. Spratt has no patent on the form of the point of the rod, but he has a patent on the amalgamated material sometimes used for that purpose.

R. P., of Vt.—If you will address James Ives & Co., at Hamden, Ct., they will give you all the information you need; we cannot.

H. S., of Ohio—You would see, by some of our remarks upon Phillips' Annihilator, before your gun was patented, that we suggested a holster pistol as being a superior Annihilator. Shooting with water is not new. This plan was successfully practiced by Valliant nearly 100 years ago. See his book of travels.

C. P. H., of N. Y.—Your cam wood stain would be rendered more permanent by using a little alum with the alcohol. Use alum and a small portion of the chloride of tin along with strong brazil wood, and you will have a good red stain.

R. H., of Mass.—Your Indicator has long been known and used, but it won't cure the evil—which is willful pressure.

B. B. L., of Ohio—See something about compensation pendulums in another column; yours is new to us.

C. B., of Mo.—We know the assignees of the Woodworth patent, claim that rotary cutters for tonguing and grooving, even if used separate from the planing machine: we do not know of any suit ever instituted for such an infringement.

J. H., of Phila.—See page 213, of Vol. 2, second series, "Glasgow Practical Mechanic," for a smoke preventer, the same exactly as the one sketched in your letter.

G. W. A. S., of La.—There are many places in this city where you can obtain stained glass, but if you wish it made to order, and desire to furnish your own designs, we would recommend you to Samuel West, No. 94 Fourth avenue, this city, as a superior stainer.

J. C., of N. J.—There are no doubt many glass painters in the city who could give you just such information as you solicit, but we are not acquainted with any.

H. H. T., of N. C.—We have, in previous volumes (2nd and 3rd), published a complete series of articles on Painting, and if we should take up the subject again it would be but the reiteration of a well-told story, which would be uninteresting to thousands of our readers who possess those first volumes. Your plans for carriage spring are all in use here; the first is patented.

B. H. W., of Ky.—We think the application of cold water to the gin, in the manner you propose, would be patentable; we have never known of its being done. We have heard before that the Smith cylinder was in use long before it was patented, probably the inventor will never test the validity of his document. Porter's Tuxey has been recommended very highly by those who have used them.

E. F., of N. J.—Duggan's work on bridges was published in numbers at 75c. each, but was never completed in consequence of the decease of the author. We can send you 8 numbers of the work for \$4, if you desire it.

Money received on account of Patent Office business of the week ending May 8:

J. L., of N. Y., \$30; W. D. A., of O., \$2; W. B. L., of N. Y., \$52; G. P., of N. Y., \$32; J. P. D., of Pa., \$10; D. & O., of Pa., \$30; A. J., of N. Y., \$32; A. C., of N. J., \$30; Z. H., of O., \$20; J. S., of Ga., \$37; S. M., of N. Y., \$25; A. M. G., of S. C., \$20; W. P., of Mo., \$30; J. T., of Pa., \$30; J. L. A., of Ct., \$42; J. B. C., of N. Y., \$30; S. B. T., of Ct., \$35.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending May 8:

J. H., of O.; D. D. A., of Mass.; J. P., of Pa.; R. S. R., of Ky.; E. M. & Co., Pa.; S. M. B., of Vt.; J. S., of Ga.; S. B. T., of Ct.; W. G. B., of Ct.; J. E. C., 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.

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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 12 1/2 cts. per copy.

ADVERTISEMENTS.

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Advertisements exceeding 16 lines cannot be admitted; neither can engravings be inserted in the advertising columns at any price.

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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.

JOS. R. BROWN, MANUFACTURER of Watch Clocks and U. S. Standard Rules, Providence, R. I. The subscriber has recently invented and put in operation a machine for dividing rules and scales in the most accurate manner to which he would invite the attention engineers, machinists, and draughtsmen, and all others wanting an accurate instrument. WATCH-CLOCKS—These clocks are designed for banks, manufactories, and other places where a watchman is employed, and serve to show whether he is attentive to his duty. Prices from \$35 to \$55. Agents—Sibenman & Quartier, 15 John st., N. Y.; J. V. D. Wyckhoff, 152 Broadway, N. Y.; A. J. Wilkinson, No 2 Washington st., Boston. Orders per mail promptly attended to. 1\*

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\*

TO INVENTORS HOLDING ENGLISH PATENTS, AND OTHERS.—A gentleman well acquainted with machinery, and having had considerable experience in Patents, about visiting England for a few months, offers his services for introducing to the public any new patent, or otherwise seeks employment during his stay. Satisfactory references given. Address G., box 28, P. G. Washington, D. C. 35 1\*

REGULATORS FOR STEAM ENGINES.—The subscribers having purchased of L. B. Pitche 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\*

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

A PROFITABLE INVESTMENT.—One half the interest in the Machine Shop of E. W. Hudnutt & Co., at Genesee, is now for sale upon advantageous terms. The shop is doing a prosperous business, employing 15 to 25 hands. The work—building steam engines and boilers, mill gearing, castings generally, grain drills, wheel cultivators, plows, and various agricultural implements. The shop is worked by steam, and has an extensive assortment of patterns, flasks, boiler tools, etc. Also a planing machine, lathes, vises, etc., all in good condition. The shop is situated in the village town of Livingston, in the Genesee Valley, and for health, beauty of location, fertility of soil, advantages of society and schools, it is not surpassed in the U. S. A rare chance for a mechanic with a small capital. Possession given this spring or next fall. Address E. W. HUDNUTT & CO., Genesee, N. Y. 34 2\*

BAROMETERS AND THERMOMETERS.—The undersigned manufactures all kinds of the above in box-wood, ivory, and metal; improved day and night thermometers for registering extreme heat and cold; wet and dry bulb thermometers; improved marine barometers; thermometers for sugar, bakers, brewers, etc.; hydrometers and levels—wholesale and retail. Repairing at the lowest prices. W. NORTON, 40 Fulton st., Brooklyn, N. Y. 34 2\*

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.

JOHN W. GRIFFITHS—Ship Builder and Marine Architect, 608 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 proportionably 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 shipbuilding. 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. P. A. LEONARD. 27tf

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.

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 (Stubs) 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\*

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. 26tf

PAINTS, &c. &c.—American Atomic Drier, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Store 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 abovenamed foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 25tf

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 Tennoning 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 W. M. WOOD, Westport, Ct. All letters will be promptly attended to. 22tf

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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 2 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\*

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 & Parshey) have now on hand \$25,000 worth of Machinist's 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. 25tf