

TO CORRESPONDENTS.

G. B., of N. Y.—You will get the information for calculating the power of high pressure engines in "Bourne's Catechism of the Steam Engine." It is authority, and we can find no better book to recommend to you at present.

J. F. M., of Pa.—We were told authoritatively that it was anthracite that was used, but did not pay the least attention to examine for ourselves.

S. and E., of N. Y.—Perhaps your plan for threshing as last submitted to us is an improvement on the one upon which the application for a patent is pending, but we fail to recognize the advantage of it.

A. W. D., of N. Y.—Your plan for a gas generator is very novel, and we should think it would operate well, but perhaps you had better construct one and try it before going to the expense of making an application for a patent.

W. E., of Boston.—We know persons who have used the burning fluid for a number of years without any accident taking place. Carefulness will do all that is required. We have received a letter from another person having a valve opening in a contrary direction to yours to do the same thing.

G. L. B., of Me.—We have received a letter from another person with a valve opening in a contrary direction from yours to do the same thing. Both cannot be right. We are obliged to you for mentioning about the water pails.

H. C., of Texas.—The inventor and patentee of the improvement mentioned in your letter of the 13th ult., is now in England, and upon his return we will endeavor to call up the subject of your enquiry.

H. G., of Mich.—We read every word of your long communication. We will defer our opinion until your arrival.

E. T., of Ill.—There is no machine for turning spokes not patented, which works satisfactorily, that we know of. J. M. Quimby, of N. J., is owner of Blanchard's patent.

J. McC., of N. Y.—An application is now pending at the Patent Office, for a machine substantially on the same plan as yours. If you wish to attest your right to the invention, you have only to make application for a patent, and the Commissioner will declare an interference, and call for evidence to prove priority.

R. O. W. H., of Tenn.—We have handed your letter over to a manufacturer for attention.

H. B. H., of Ohio.—We have carefully examined the model of your reaping and raking machine, and think the raking part to be new and patentable. We see nothing new in the reaping arrangement. There is no objection to your taking a patent.

W. D. B., of Mass.—You should always sign your name to communications addressed to this office. Your device appears to possess novelty sufficient to warrant an application for letters patent. You can send us a model.

J. C., of R. I.—Your ideas concerning the propelling of a balloon are absurd. We can offer you not a word of encouragement.

C. E. Bacon, of Buffalo, N. Y.—Your explanation is satisfactory, and we should have so stated before, but the matter was overlooked, amid the hurry of our business.

T. S. M., of Pa.—We have the same opinion in regard to the patentability of the lightning conductor and insulators, that we did before receiving your last letter.

W. D. W., of Raleigh.—The fact of your having paid us \$30 was overlooked at the time you were last written to. Your case is properly entered upon our Patent Office record book, and will receive attention in its turn. You will have but \$25 more to remit.

J. V. D., of Va.—We are sorry in not being able to furnish you with the back numbers of the present volume, but you are in no worse condition than hundreds of others who have been disappointed in like manner. The article on gun cotton will probably be published.

E. H., of Conn.—So far as we are able to judge of your improvements on the steam engine from such a description as you give, we think it is new.

A. P., of Me.—There have been many car couplings patented which purport to obviate the evil you propose to remedy, but you may have a different plan from any of the others for producing the result.

J. D. A., of O.—Your diagram presents a well-known invention.

Dr. Wright, of California.—Suitable engravings of your machine for separating extraneous matter from gold, would cost you \$25, which amount we would thank you to remit.

E. Van C., of Pa.—Your new model has been received and forwarded to the Patent Office.

W. T. W., of Tenn.—The principle is the same in all hydraulic rams, and who makes the best we are unable to state. There is no doubt but that either of the parties will sell you a good mill.

J. M. D., of N. Y.—Your model has been received and the engravings will be executed and published in a few weeks.

Money received on account of Patent Office business for the week ending Saturday, Feb. 5:

C. V. D. H., of N. Y., \$10; E. J. & J. W. B., of N. Y., \$20; E. M., of N. Y., \$30; T. R., of N. Y., \$30; D. W. K., of Va., \$1; J. P., of N. Y., \$25; J. McM., of Ky., \$10; W. R., of Mass., \$25; W. P., of Mo., \$2.50; C. L. O., 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 Saturday, Feb. 5:

D. W. K., of Va.; W. R., of Mass.; C. L. O., of N. Y.

A Chapter of Suggestions, &c.

BACK NUMBERS AND VOLUMES.—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 four numbers, price, in sheets, \$1. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7, all; price in sheets, \$2; bound, \$2.75. Of Vol. 8, none.

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.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 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 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, 123 Fulton street, New York.

TO MECHANICS.—A Practical Mechanic, having 4000 to \$5000 capital, is wanted as partner to take the manufacturing charge of a foundry and machine shop in this city, doing a large and profitable business for cash. To a man possessing the requisite qualifications (and none others need apply), a good opportunity offers. Address "Mechanic," Union Post Office, N. Y.

SITUATION WANTED.—By a stout capable young man, about 17 years of age, in a machine shop, where he can learn the higher branches of the business; he has already served one year at the lathe, is willing to be instructed, and has a disposition to learn and make himself useful. His mother is a widow, who is very anxious to get her son a good situation. Address Mrs. GRANT, care of Middleton & Co, 73 New st., N. Y.

NOTICE TO FOUNDRIES.—The subscriber informs his patrons and the public that he is prepared to furnish FACINGS of every description for Foundry purposes, at the shortest notice and on the most reasonable terms. Facings delivered in Boston free of charge. Orders directed to him at Neponset, Mass., will meet with prompt attention. CHARLES ALDEN.

WOODWORTH PLANING MACHINES, ON hand and manufactured to order, of superior quality, at reduced prices, warranted perfect. Also steam engines and other machinery, by JOHN H. LESTER, 57 Pearl street, Brooklyn, L. I. 228*

WATER WHEELS.—The subscribers offer for sale Jagger's Improved French Turbine Water Wheel, which they believe to be unrivalled. Circulars and tables, relating to the same, will be forwarded to any one desiring them. JAGGER, TREADWELL & PERRY, 15 lamson* 110 Beaver st., Albany, N. Y.

TO MECHANICS.—A RARE CHANCE.—FOR sale or to let, a building 60x90, with a 15 horse engine, shafting and pulleys, 5000 feet yard room, near the depot of the Kennebec and Boston R. R., in Brunswick, Me., 6 hours from Boston; is one of the best locations in the States for building freight cars or making furniture, or any other manufacture of lumber, being in the heart of a ship-building and lumber country; will be sold a bargain, the owner not being in circumstances to manage it. Also, the right to Woodbury's planing machine for Brunswick and Bath. Apply by letter, post-paid, or in person, to 18 2eow* NARCESSA STONE.

MORTISING MACHINE.—"Dear Sirs, I received the Portable Mortising Machine about three 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." "Since I have been a subscriber to your paper I have purchased one of your Mortising Machines, for which I would not take double its price and do without it. WM. M. FLEMING. Elizabethtown, Tenn., Jan. 8 1853." This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20. MUNN & CO.

OLIVER'S WIRE WORKS.—No. 25 Fulton st., corner of Water. Locomotive Spark Wire, Patent Self-Setting Revolving Rat Traps; a new invented enclosed Coal and Ash Separator, and Wove Wire of every description. 213*

HORSE STEAM ENGINE FOR SALE.—We offer for sale an Engine and Boiler, as follows: 8 horse, horizontal, cylinder 7 inches bore, 16 inch stroke, on a cast-iron bed, fly wheel, driving pulley, governor, pump, pipes, etc.; has never been used. The Boiler has been used by the maker about one year. It is cylinder, horizontal, 16 feet long, 30 inch diameter, has a steam chamber, try-cocks, check and safety valves: price, \$600. Address MUNN & CO.

THE UNDERSIGNED manufacture Patent Cast-Iron Screw Pipes, of 3-4, 1, 1 1-4, 1 1-2, 1 3-4, 2, 2 1-2, and 3 inches in diameter—now in extensive use for gas, steam, and water, being cheaper and more durable than copper, lead, or wrought-iron pipes, and available for the same purposes. This pipe has been largely used in conducting water to railroad stations, also in tanneries, distilleries, pork and sugar houses, in conducting water or steam, and as suction pipe for pumps, for which, where long lines are required, it is peculiarly fitted, from its durability, cheapness, and the excellence of the screw-joints. We also make Solid Hub Railroad Car Wheels, by Murphy's process, using the utmost care in selecting metal for the purpose, with reference to strength and chilling properties. Also small steam engines, mill machinery, cotton presses, tobacco-screws and presses, lard, timber, and mill screws; force and lift pumps of various sizes and kinds, for hand use or power. Cast-iron railing, Roys & French's Patent Hub Mortising Machine, which will lay off, bore, and mortise a hub of ordinary size in 15 minutes, turning it out completely finished, the mortises having any required disc.

TEVIS & BARBAROUX, corner of Washington and Floyd streets, Louisville, Ky. 20 4*

BRIDGEWATER PAINT MANUFACTURING COMPANY DEPOT, 125 Pearl and 78 Beaver streets, New York, have on hand a large supply of this paint, and are prepared to receive orders for dry packages of 200 lbs. and upwards, and in oil of assorted colors in kegs of 25, 50, and 100 lbs. Forwood, iron, stone, and brick work, it has no equal. Painters are using it with great success on brick buildings (the natural color resembling brown stone), on tin, canvas, or shingle roofs, villas; barns, fences, depot buildings, railroad cars, bridges, &c.; also for decks and bottoms of vessels. The black has been found superior to any other, for hulls of vessels, being more durable, possessing a greater body and cheaper. From its spark and cinder-proof qualities, it is well adapted to all kinds of wood work, where there is danger from fire. Testimonials of its virtues, and specimens on wood, tin, canvas, &c., may be seen at the depot. Letters must be addressed to R. BOBERT, General Agent. 20 4*

MANUFACTURERS OR OTHERS, who have Wool, Cotton, or their fabrics, to dry by artificial heat, will find it greatly to their interest to use Chaffee's Patent Drying Machine, or Hydro Extractor. Having purchased of Mr. Chaffee the right to manufacture, sell, or use the above-named machine in any and all parts of the United States, and having been manufacturing said machines for more than three years, and having introduced the main improvement by which the machine differs from the original, as seen in Vol. 4, No. 10, compared with Vol. 8, No. 19, Sci. Am. I am prepared to furnish, on short notice, as good a machine, and as cheap, as can be had from any source. Price, according to size, from \$100 to \$300. CHAS. BURNHAM, 212* Springfield, Mass.

SHINGLE MACHINE.—WOOD'S PATENT.—JAS. JOHNSON, of Bridgeport, Conn., proprietor of this justly celebrated machine, is now on a tour through the South western States, and will exhibit the machine in operation in the principal towns and cities. Notice will be given in the local papers where and when it may be seen; he will dispose of machines and rights upon reasonable terms. 20tf

APPLICATION will be made to the Commissioner of Pensions for a duplicate of Land Warrant Certificate No. 63,062, issued by the Department in 1849, to Roxana, widow of Silas Salsbury, late of 2nd U. S. Infantry; said warrant was assigned by her to E. C. Church, and by him to me Oct. 1st, 1849, and was stolen from me the 16th January, 1852, at the Hudson R.R. Depot, New York City. CHARLES D. NIMS, 21 6* January 24th, 1853.

MACHINERY, TOOLS, &c.—The subscriber is prepared to manufacture all kinds of light machinery, also Lathes, Slide-rests, and Engineers' Tools, &c., at short notice and on moderate terms. Engineers and inventors giving him a call will have their work got up with accuracy and despatch. S. BENTON, 136 Crosby st., N. Y. 21 4*

HARRISON'S UNEQUALLED FLOUR AND GRAIN MILLS.—Their frames and hopper are cast-iron, and the stones French Burr, 30 inches in diameter; grinds wheat and corn 20 bushels an hour, weighs 1400 lbs.; cash price \$200. These mills, constructed upon a new principle, have become widely known, and are producing a revolution in milling. Cash orders promptly supplied, and the mills warranted to work in the best manner. The patentee offers \$500 reward for any mill which will do an equal amount of work with the same power and dressing. Made and for sale at the corner of Court and Union streets, New Haven, Conn., by EDWARD HARRISON. 20 12*

BACK VOLUMES OF THE SCIENTIFIC AMERICAN for sale—Vols. 2, 5, 6, and 7, complete, price \$2.50 per volume; Vol. 3, less 10 or 12 numbers, and Vol. 4, less 4 or 5 numbers; price \$1.50 each; all bound and in good order. Address, post-paid, F. S. BURELL, Albany, N. Y. 19 4*

P. N. FITZGERALD, Counsellor at Law, has recently resigned the office of principal Examiner of Patents, which he has held for many years, and is ready to assist, professionally, in the preparation and trial of patent causes before the U. S. Courts in any of the States, and before the Supreme Court of the United States. He also acts as Counsel in cases before the Patent Office, and on appeals therefrom, but does not prepare applications for Patents. Office corner of E and 8th sts., Washington, D. C. 18tf

PATENT DRAFT BOARDS.—With extension scales, sheet fasteners, and T rule. See Reports of Worcester Fair, Maryland State Fair, &c. &c., with their awards. \$10 complete. Sent by express. Address, post-paid, CHAMBERLIN & CO., Pittsfield, Mass. 16tf

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines, the best in use, and applicable alike to thick or thin staves; also his Head Cutting and Turning, and Stave Jointing Machines. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 9tf

IRON FOUNDRY MATERIALS.—viz.: Scotch and American Pig Iron, of favorite brands; Scotch patent Fire Bricks—square, arch, and circular. Fire Clay and Fire Sand; Moulding Sand for Iron and Brass Founders; Core Sand and Flour. Pulverized Black Lead, Soapstone, Sea Coal, Anthracite, and Charcoal Bolted Facings of approved quality, for sale by G. O. ROBERTSON & CO., office 135 Water street, (corner of Pine) N. Y. 19 6eow*

BEARDSLEE'S PATENT PLANING Tongueing and Grooving Machines.—These celebrated machines have now been generally introduced in various portions of the United States. More than thirty are now in successful practical operation in the State of New York alone. As an illustration of the extent of work which they are capable of performing, with unrivalled perfection, it is sufficient to state that, within the last six months and a half, over five millions of feet of spruce flooring have been planed, tongued and grooved by one of these machines at Plattsburgh, N. Y., never running to exceed ten hours a day. The claim that the Beardslee machine was an infringement upon the Woodworth patent, has been finally abandoned; and after the proofs had been taken, the suit instituted by the owners of that patent was discontinued, and the whole controversy terminated on the first of November last. Applications for machines or rights may be made to the subscriber, GEO. W. BEARDSLEE, 57 State street, or No. 764 Broadway, Albany. 15tf

EXHIBITION OF WORKS OF AMERICAN Industry at Washington City.—The first exhibition of the Metropolitan Mechanics' Institute will be opened on Thursday, the 24th of February, 1853, in the new and splendid hall of the east wing of the Patent Office, one of the largest and most magnificent rooms in the United States, being 275 feet long by 70 feet wide. To this exhibition the manufacturers, mechanics, artists, and inventors, from all portions of the Union, are cordially invited to contribute. The hall will be opened for the reception of goods on Monday, the 14th of February, and the exhibition will positively close on or before Thursday night, March 17. Circulars, containing detailed instructions, will be forwarded and any further information given, on application (post-paid) to the Corresponding Secretary, Charles F. Stansbury, to whom all communications on the business of the Institute should be addressed. 8tf

WOODBURY'S PATENT PLANING Machines.—I have recently improved the manufacture of my Patent Planing Machines, making them strong and easy to operate, and am now ready to sell my 24 inch Surfacing Machines for \$700, and 14 inch Surfacing Machines for \$650 each. I will warrant, by a special contract, that one of my aforesaid machines will plane as many boards or plank as two of the Woodworth machines in the same time, and do it better and with less power. I also manufacture a superior Tonguing and Grooving Machine for \$350, which can be either attached to the Planing Machine, or worked separately. JOSEPH P. WOODBURY, Patentee, Border st., East Boston, Mass. 13tf

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. 13tf

A. B. ELY, Counsellor at Law, 52 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 16tf

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. 7tf

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. 1tf

LATHES FOR BROOM HANDLES, &c.—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.

FALES & GRAY (Successors to TRACY & FALES), RAILROAD CAR MANUFACTURERS—Grove Works, Hartford, Connecticut. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 1tf

THE TROY IRON BRIDGE CO. are prepared to erect Iron Bridges or Roofs, or any kind of bearing trusses, girders, or beams, to span one thousand feet or under, of any required strength, in any part of the country. Their bridges will be subjected to severe tests, and can be built for about the price of good wooden ones. Address BLANCHARD & FELLOWS, Troy, N. Y. 7 20*

J. D. WHITE'S PATENT CAR AXLE LATHES.—also Patent Engine Screw Lathes, for boring and turning tapers, cutting screws, &c. We manufacture and keep constantly on hand the above lathes; also double slide Chuck and common Hand Lathes, Iron Planers, S. Ingersoll's Patent Universal Ratchet Drill, &c. Weight of Axle Lathe, 5,500 lbs; price \$600; Engine Screw Lathe, 1,400 to 7,000 lbs; price \$225 to \$675. BROWN & WHITE, Windsor Locks, Conn. 15tf

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, top plane from 5 to 12 feet; slidelathes 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. E. Man's Co. 19tf