

TO CORRESPONDENTS.

R. S. B., of Ohio.—Well, you are a good-souled fellow, we believe. We wish you had a copy of Lieut. Maury's Winds and Currents of the Ocean. See page 131 of Scott Russel on Steam, and you will find ice set down as having 140 deg. latent heat.

A. C., of Ct.—Your furnace appears to be a good one.

F. R. Van T., of O.—You may order a copy of Minnie's drawing book through us Price \$3—postage by mail about 40 cents, which must be prepaid.

C. W. B., of Mass.—You need not send us any more money for a copy of the Patent Laws, for we will send you one surely, as soon as we get them printed.

J. M. G., of ————Your case water wheel is the same as a rotary engine described in Vol 4, Scientific American.

S. B. S., of Vt.—We do not find that any patent has been granted to the Messrs. Douglass during the past three or four years, but it is presumed that they may own a recent patent by assignment.

E. P., of Ind.—You are under a wrong impression if you suppose we are ever peculiarly interested in inventions. We cannot recommend any party to you that would be willing to advance money to introduce an invention, unless the matter was fully explained and promised very flattering results.

N. W., of Pa.—So far as we are able to judge from your sketch, the rudder is new and, we presume, patentable.

G. H., of Va.—Your suggestion about the construction of railroad trucks, and the dispensing with the axle, etc., is not new.

J. O., of Pa.—Lamps are in common use which burn fluids without the aid of a wick.

J. O. H., of Miss.—We have sent you a copy of Ranlett's Architecture, but Arnott's cannot be obtained by the single number.

J. B. P., of Ga.—It is certain that you and Mr. H. cannot both obtain patents, the inventions are so nearly identical, and it is a matter of a good deal of doubt if either do. We think your position is the best, for you have not been to the expense that Mr. H. has.

P. M. R., of Ala.—The machine advertised in our columns is as good as any in use; the knife works in a grate which slides in a vertical frame, and the block is fed to the knife in a vibrating carriage, which gives the proper taper to the shingle. The price of a large sized machine is \$120.

B. B., of Md.—Your clover sheller appears to be very simple, and we think would work very economically for small uses. Should you wish to patent it we shall require a model and the Patent fee, \$30, in the first instance. We are puzzled to make out your name from the signature.

T. H., of Pa.—Your bolting apparatus appears to be useful and new. We think a patent can be secured for the improvement. Please send us a model.

S. N. B., of Ohio.—We know of no concern that would contract for constructing a locomotive of so small capacity as a 4 horse power.

W. G. H., of Pa.—Your composition for roofing would not be patentable. We have had no tidings from your case since the application for a patent was made.

F. D. P., of Mass.—There is a bill now before Congress for the better protection of inventors, and we are waiting for it to become a law before we issue our new edition of the Patent Laws, so that we may introduce it in our work, and thus render our edition as complete and reliable as the one issued by the Patent Office. We will send you a copy as soon as any are ready for the mail, and that will depend on the action of the officials at Washington.

M. S., of N. Y.—We have never heard of such an apparatus as that which you describe for the resuscitation of drowned persons: it commends itself to us.

P. M. H., of N. Y.—We "caught your idea," but do not think it a patentable one; if you could prove priority of invention you might possibly obtain a patent on the whole thing, but we think you would not be able to secure a patent on the improvement you have made.

L. G., of N. Y.—We have had a model of a car brake in our office for two years past, which is constructed on precisely the same plan as yours.

R. H. C., of San Francisco.—It might gratify you to have an illustration of your machine appear in our columns, but we don't think it would be a subject of general interest to our readers, therefore decline your proposition.

C. D., of Mass., and others.—We have not all the back numbers, even to Jan. 1st, with which we can supply you: your subscription we have entered from the present date.

W. C. G., of N. Y.—We are at a loss to discover anything new or patentable in your device to be employed as a guard in front of locomotives. If there is any particular point of novelty you are at liberty to direct our attention to it, as it now stands we cannot encourage an application for a patent, as it is a mere change in form.

C. C. C. S., of Mass.—We cannot undertake to say what the value of any invention would be, especially a steam valve, it may be new, but of this we are doubtful. The Patent Laws we shall send you as soon as we have an edition through the press.

J. V. S., of N. J.—We saw a model some two years ago of a switch substantially the same as yours: we cannot therefore advise you to make an application for a patent.

S. T. C., of Mo.—We do not know of any new edition of Evans's old work on Millwrighting. We have disposed of your letter as directed.

Money received on account of Patent Office business for the week ending Saturday, Feb. 12:

J. C., of Ga., \$55; J. & C. D., of Pa., \$30; H. W. W., of N. Y., \$40; R. S., of N. J., \$25; C. D. C., of Mass., \$25; T. T. W., of N. Y., \$45; J. I. V., of N. Y., \$30; D. S., of Pa., \$10; A. R., of Pa., \$10; C. J., of R. I., \$72; C. B., of Ohio, \$50; L. D., of N. Y., \$30; A. M. S., of Ala., \$30; S. T. S., of Mass., \$25; S. A. & J. G., of R. I., \$30; B. I., of L. I., \$25; J. B. D., of N. Y., \$20; E. G. H., of N. Y., \$25; P. G. G., of N. Y., \$55; C. S. B., of N. Y., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday Feb. 12:

E. C. B., of N. Y.; C. S. B., of N. Y.; J. & C. D., of Pa.; E. St. L., of N. Y.; E. G. H., of N. Y.; J. B. D., 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 60 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.

ADVERTISEMENTS.

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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

COCHRAN'S CRUSHING MACHINE.—Can be used in daily operation in Thirteenth street, between 9th and 10th avenues. Parties in want of a machine for crushing and pulverizing quickly and cheaply Quartz Rock, Iron, Lead, Copper, and Silver Ores, and other mineral substances equally hard, are invited to witness the operation of these powerful and simple, but yet effective machines. For further particulars apply to E. & J. BUSSING & CO., No. 32 Cliff st., Y. N. 23tf

TO CLOTH MANUFACTURERS AND FULLERS.—An experienced German Dyer (well in English) continues to give fair instruction in managing a warm blue vat. Address F. MARWEDEL, 524 Grand st. N. Y. 23 2*

TO ARCHITECTS, BUILDERS, AND OTHERS.—Messrs. WATSON & HODGSON, Modelers, Designers, &c., respectfully intimate that since they have commenced business they have completed a house, the property of Charles Morgan, Esq., No. 4, Madison Square, north side; any of the above parties may call and see their first essay before the New York public. Decorations of every period, style, and character, accurately executed to order. Place of business 494, basement, and 374 Broadway, up stairs. 23 3*

WATER POWER TO LEASE.—We have a surplus of from 6 to 8 horse-power, which we wish to have occupied; is well calculated for a machine shop or any similar business; room 29 by 43 feet, light and airy. Terms \$150 per annum. Address E. & T. W. SHAW, Spring Valley, Green Co., Ohio. 23 2*

COTTON MACHINERY.—Of the most approved plans, from the best shops in the country.—Drawings, specifications, and general arrangements for the machinery, furnished at the lowest rates, by W. R. LEONARD, and E. W. SMITH, 75 Merchants' Exchange, New York. 23tf

BLACK LEAD CRUCIBLES and Melting Pots of any form, size and quality, made to suit customers, for 3 cents per number, and warranted equal to any of the kind manufactured in the world, by D. H. PURINTON, Somerset, Mass. 23 10*

CLOCKS FOR CHURCHES, COURT HOUSES AND OTHER PUBLIC BUILDINGS. Time-Pieces for Session and Vestry Rooms, Hotels, Railroads etc.; Regulators for astronomical purposes, jewellers, and others, when the most perfect time is desired. The improvements introduced by the subscribers, enable them to warrant an accuracy of time-keeping, unequalled (so far as they can learn) in Europe or America. Glass dials, for illuminating and other kinds, furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island. "At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world."—Scientific American. 19 13eov

SHINGLE MACHINE.—WOOD'S PATENT.—JAS. D. 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

WANTED.—A second-hand Surfacing Machine, in good working order.—Woodworth's Patent. Any person having such a machine for sale will please address STARR & STEVENS, Danbury, Conn. 23 3*

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

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. 22-3*

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. 21 3*

8 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, &c.; 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.

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 Salisbury, 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, January 24th, 1853. 21 6*

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. 21 4* S. BENTON, 136 Crosby st, N. Y.

E. HARRISON'S UNEQUALLED FLOUR AND GRAIN MILLS.—Their frames and hopper are cast-iron, and the stones French Burr, 30 inches in diameter; grinds of 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 20 12* EDWARD HARRISON.

W. 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 FOUNDERS MATERIALS.—viz.: Scotch Land 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 6eov*

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. 1amt

BEARDSLEE'S PATENT PLANING Tongue- 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 the proofs that 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

BRIDGEWATER PAINT MANUFACTURING COMPANY DEPOT, 125 Pearl and 73 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. For wood, 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 20 4* R. BOGERT, General Agent.

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 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. 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. 7tf P. A. LEONARD.

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, 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.

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, 6,500 lbs; price \$600; Engine Screw Lathe, 14,000 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, 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. O. HILLS, Agent N. H. Man'g Co. 19tf