

## TO CORRESPONDENTS.

H. W. G., of N. C.—We published a description of a flying ship in Vol. 1, Sci. Am., of a double cone form; bird-form balloons have been tried before. The same ideas as those you have presented have been carried out in the parachute. We assure you that the only theory to attract attention and command success is to do the thing.

J. T., of C. W.—Look on another page for something suitable as an answer to your letter.

C. B., of N. Y.—There is a book sold by J. Wiley, this city, named the "American House Carpenter;" there is also "Downing's Cottage Architecture," and Ranlett's. If there is a bookseller in your place he will be the best person to get them for you.

J. R., of Mich.—Your improvement in working muley-saws, we believe, is good—so far as we can learn, it appears to be new and patentable.

J. Z. F., of N. Y.—Instruments for measuring the height of mountains and the depression of valleys, are very common, but you may have an improved apparatus notwithstanding.

J. F., of Conn.—We never heard of steel being cast into files, or anything of the kind.

J. S., of Mass.—We have not a copy of the numbers on hand ordered by you.

A. F. S., of Ga.—We are glad the Ear Trumpet sent to you in 1849 pleased you, but we cannot be at the trouble of superintending the construction of another; we are not in the "trumpet" business at present.

S. H., of Wis.—Thenovelty of your arrangement of the friction rollers we fail to perceive, your assertion to the contrary notwithstanding; we would not advise you to make an application for a patent.

B. F. C., of Ky.—We should be very happy to receive communications from you on the subject of Kiln Drying, and plans of your mode of constructing the furnaces we could probably publish.

A. M. B., of Vt.—For raising very heavy weights, such as placing masts in a ship, or boilers on board a steamer, shears, and not a derrick, are preferably employed.

W. H. C., of Mo.—By sending us \$2 we will forward you the claims of both the parties. Patent Laws sent.

P. L. F., of R. I.—Send on your model.

H. M. & Co., of Mass.—There is no doubt but that both of the inventions are good, and you had better address the parties direct—not through us.

C. B., of Ga.—On page 76, Vol. 6, Sci. Am., you will see an engraving of a mechanical cradle, which we believe to be precisely like your plan; it was patented.

J. C. R., of Pa.—Jennings' rifle is no doubt a good one, but we are not so well acquainted with it as with Marston's, the latter we know to be first rate.

O. B. G., of Wis.—It requires but about one horse power to drive an Alcott lathe, and it will turn out 400 fork or 1500 broom handles per diem.

L. G., of N. Y.—There is scarcely a doubt but that your improvement in railroad axles is new and patentable, but we would not venture an opinion as to its practicability.

C. B. H., of N. Y.—The plan you suggest for preventing railroad accidents has been well known to us for two years. A patent was taken out forenclosing the axle in a case; the principle being precisely the same as Mr. Finch's wheel, illustrated in the last number; the construction is different of course.

J. C. B., of N. H.—We can give you no better information than we have already done, and if you wish to satisfy yourself as to the utility of the invention, you had better give it a practical test.

L. W. J., of Iowa.—Your friend's plan for changing motion is a device on which, no doubt, twenty applications for patents have been made already. There is nothing new in it.

W. D. A., of Ohio.—If you have a plan by which trains of cars running at the rate of 40 miles per hour, can be kept in communication with each other by telegraphing, you no doubt have an important invention. The Telegraph is owned and used by some R. R. Companies now, for their convenience, but the communications are only made from the stations—not from the train. You should secure your patent at home and abroad, simultaneously.

I. D., of Ohio.—The diagram of your hair beater represents a patent churn we had exhibited to us last year. There is nothing patentable in your apparatus.

A. M., of Phila.—An engraving of your machine would cost \$12. We have a specification and drawing of it, so if you desire us to get up the views on wood you have but to send us the money.

J. H. G., of Pa.—Your caveat was filed April 1st, 1852.

D. H. S., of Pa.—We do not know of a single useful work on tin and coppersmithing. Give your zealous attention to the practical part of the business, and become a good workman; and read useful works.

J. W., of N. Y.—The copper plates for daguerreotype pictures are made by rolling, but being imported we do not know the price of the machinery.

J. W., of Mich.—By hard water we suppose you mean that impregnated with lime; it is healthy if the lime is in minute quantities. Magnesian waters are unhealthy. Lead pipe is safe with your "hard" water; cast-iron pipes are employed for our "main" pipes. They will last for a long time and are not liable to oxidize, but wrought iron pipes are not suitable.

J. G., of Boston.—We receive all our claims officially from the department, and always publish all that are sent to us. We can never be induced to suppress any one's claims under whatever pretence they may advance.

D. M. D., of Pa.—We know of no better work on millwrighting than those you mention as having.

M. K., of Mass.—Your plan of tightening millstones is the ordinary plan used in nearly all modern built mills. Your tack hammer may be new, send one on that we may examine it.

G. W. L., of Pa.—We have examined the model of your wheel. It contains nothing new or patentable, and you are advised not to make an application.

G. L. L., & Co., of Ohio.—We think your improvements in candle moulds to be new and patentable. You had better send a model.

J. M. N., of Pa.—Your plan for a perpetual motion is excellent, but it won't go. It cannot be that you are a careful reader of the Scientific American, or you would know better than to submit diagrams of a perpetual motion for our opinion.

J. M. G., of Va.—Steamboat wheels with the paddles so arranged as to enter the water vertically, is about as old an invention as we know of.

F. S., of Conn.—We have not the information you want now, if we obtain it you may expect to see it in print for your benefit.

W. H. M., of Ind.—We can execute and publish an engraving of your machine for \$12.

Money received on account of Patent Office business for the week ending Saturday, Jan. 22:

C. & R., of N. Y., \$15; J. M., of Ma., \$10; C. S. B., of L. I., \$10; J. E. N., of N. Y., \$30; H. B. of N. Y., \$100; I. P. W., of Mass., \$30; G. S., of Conn., \$10; W. Z., of Ill., \$55; A. H. B., of N. J., \$150; H. T., of N. Y., \$50; D. E. of Conn., \$25; W. S. P., of Ct., \$25; S. R. & H., of N. Y., \$40; H. E., of N. J., \$27; J. E. B., of N. Y., \$55; P. G. G., of N. Y., \$55.

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

J. R. of N. J. (2 cases); D. E., of Conn.; W. S. P., of Conn.; T. S., of Ohio; J. E. B., of N. Y.; H. E., of N. J.; B. H., of N. Y.; P. G. G., of N. Y.

## ADVERTISEMENTS.

## Terms of Advertising.

4 lines, for each insertion, -	50cts.
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 by 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.

**THE STOWELL EVERGREEN SWEET CORN**—A few bushels of this new and valuable variety, from seed raised by Professor J. J. Mapes, L. L. D., for sale. Per bushel, \$10; peck, \$3; half peck, \$3, quart, \$1; sent by express to any part of the country, on receipt of the money by mail. This is beyond all doubt the best and most prolific kind of Sweet Corn ever grown. No farmer should be without it. One of the advantages claimed for this corn by Professor Mapes, is that it may be kept green and fresh all the year round. The subscriber's limited experience, however, does not enable him to endorse this. Address, post paid, ALFRED E. BEACH, White Plains, Westchester Co., N. Y.

[Prof. Mapes, in the "Working Farmer," December, 1851, gives the following directions for preserving the Stowell Evergreen Sweet Corn:—

"The ears should be gathered when fully ripe, and the husk should be tied at the nose (silk end), to prevent drying, when the corn will keep soft, white and plump for more than a year, if in a dry and cool place. At the dinner of the Managers of the fair of the American Institute, last year, we presented them with this corn of two successive years' growth, boiled, and there was no perceptible difference between the two. This year we sent to the fair a stalk containing eight full and fair ears, and we could have sent many hundred stalks of six ears each."

**A RARE CHANCE FOR MAKING A HANDSOME FORTUNE.**—Any person wishing to take an interest in a very valuable patent right for the New England States, and having one or two thousand dollars capital (one that has already been introduced and pays two or three hundred per cent.) will please address H. J. B., Post Office, New York City. 1\*

**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 182eow\*

NARCESA STONE.

**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,  
20 5\* Louisville, Ky.

**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. 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.

**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.

**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. BURRELL, Albany, N. Y. 19 4\*

**1852 TO 1856.—WOODWORTH'S PATENT** Planing, Tonguing, Grooving, Rabeting, 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

**SURFACE CONDENSERS.**—Having built and used at our machine shop and foundry one of J. M. Miller's Surface Condensers for the last 14 months, we are now prepared to receive orders for building and putting up said condensers on either high or low pressure engines now in use, and warrant the same against expansion and contraction of the metals, also the injurious effects of oil in the tubes, which alone has caused the failure of condensers heretofore used. We have also found, in the use of our Condenser a nett saving of 30 per cent. of fuel, the water being kept pure and regular in the boiler by the condensation of the steam. In our judgment this Condenser is the perfecting of the Steam Engine. COBB, MASON & HILL,  
North Point Foundry and Machine Works,  
18 4 Jersey City, N. J.

**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. 18 tf

**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

**STEAM ENGINES FOR SALE.**—We offer for sale two Engines and Boilers, as follows: one 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.

One 7 horse Horizontal Engine, 6 inch bore, 16 inch stroke, cast-iron bed-plate, driving pulley, etc. Boiler horizontal, tubular, and has everything complete for putting it in operation. The engine is new, the boiler has been used, but is in good order. Price \$500. They are rare bargains, and will give satisfaction to the purchaser, being much less than new ones can be obtained. Address MUNN & CO.

**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\*

**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. 15 tf

**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 \$550 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 \$550, 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, Shanks, 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 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. 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, &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. 14tf

**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

**SHINGLES, SHINGLES, SHINGLES.**—WOOD'S latest improvement in Shingle Machines is becoming more generally used than any other ever invented, and is unquestionably the best machine now in use; it produces shingles from all kinds of timber in a very perfect and rapid manner. Machines and rights for sale. Apply to JAMES D. JOHNSON, Bridgeport, Ct. 9tf

**J. D. WHITE'S PATENT CAR AXLE LATHES**—also Patent Engine Screw Lathes, for boring and turning tapers, cutters, &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, 1400 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 Seranton & 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. 19tf