

TO CORRESPONDENTS.

J. W. C., of Miss.—Emery & Co., of Albany, N. Y., can furnish such a saw mill as you require, and Hoe & Co., of this city, can furnish the circular saw.

W. J. F. S., of Ill.—Before we can consent to answer yours of the 9th ult., we must be allowed to enquire the object you have in view. We have already responded to a number of your communications, and as our time is of some value we must decline any further correspondence without some remuneration.

T. I. B., of Tenn.—We published the report of the Committee on the Hillotype, that part of it which pronounced an unfavorable opinion. Nothing new has since turned up at any rate nothing to change the impression that it is no invention.

E. C., of N. Y.—We do not see any advantage to be gained in employing three small overshot wheels, for one large one. Two re-action wheels on one vertical shaft in a tight iron case, is a common plan for economizing the water power, but many millwrights say that no advantage is gained by more than one wheel; give the subject some more attention.

J. Y. M., of S. C.—If you have cheap fuel, the steam engine is the best. The power of the water stream you speak of, is according to the quantity of water and the perpendicular height. The quantity you will have to find out. A column of water four inches in diameter, flowing through a pipe 100 feet high, at the rate of 300 feet per minute is equal to a steam engine of 4 1-2 horse power.

F. E. C., of Ma.—The recording of an assignment within three months according to the statute, is merely directory; and any subsequent recording of an assignment will be sufficient to pass the title to the assignee, except as to intermediate bona fide purchasers, without notice. Assignments should be recorded.

S. T., of Ct.—The object of your night telegraph is new to us, \$1 received.

S. W. A., of N. H.—Perhaps you had better wait until the new model is ready, as it will not make much difference. It is expensive to patent abroad, but it might pay. If you conclude to do so, you had better go on as fast as possible. We can arrange the preliminaries by letter.

C. B. H., of N. Y.—Your arrangement for cutting bevel gearing possesses novelty of a patentable character as we view it. You can send a model.

S. A., of N. Y.—We could not give you a definite answer without knowing precisely what your plan is.

J. T. M., of Ohio.—We do not see any patentable feature embraced in your plan of a Saw Mill. The change is one not involving a new contrivance necessary to invention. The one you refer to is somewhat similar.

S. F., of Pa.—In Vol. 5 of the Sci. Am., we noticed Arago's Astronomy as being for sale by Dewitt & Davenport, Tribune Buildings, price 25 cents; probably available at 37 1-2 cents. Our thanks for your list of subscribers.

C. J., of N. Y.—You are aware that the Rotary Press, in a wide sense, is a self-feeder. We do not understand you exactly about printing a flat form in a rotary cylinder. If it was more fully explained, we would be able to give an opinion about its patentability.

J. J. J., of Tenn.—At the time the patent was secured (Jan., 1844) Mr. Covell resided at Glen's Falls, N. Y.

P. E. B., of Me.—A patent could not be obtained for the windlass on the top-gallant—worked by the capstan. If you examine Ure's Dictionary you will find the description of a capstan similar to yours.

Money received on account of Patent Office business for the week ending January 3.

O. M., of Mass., \$10; A. F., of N. Y., \$37; J. McD., of Pa., \$10.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Jan. 3:—H. S., of N. H.; A. F., of N. Y.; W. D., of Pa.; C. M., of Mo.

An Important Paragraph.

Whenever our friends order numbers they have missed—we always send them if we have them on hand. We make this statement to save time and trouble, to which we are subjected in replying when the numbers called for cannot be supplied.

The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.

Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

Back Numbers and Volumes.

In reply to many 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, complete sets, bound, \$2.75.
Of Volume 6, all; price in sheets, \$2; bound, \$2.75.
Of Vol. 7, all back numbers at subscription price.

New Edition of the Patent Laws.

We have just received another edition of the American Patent Laws, which was delayed until after the adjournment of the last Congress, on account of an expected modification in them. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. We shall continue to furnish them for 12 1-2 cts. per copy.

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.

One square of 8 lines, 50 cents for each insertion.
12 lines, 75 cts.,
16 lines, \$1.00

Advertisements should not exceed 16 lines, and cuts cannot be inserted in connection with them at any price.

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, 128 Fulton street, New York.

LATHES FOR BROOM HANDLES, Etc.—We continue to sell Alcott's Conic 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.

MORTISING MACHINE.—Dear Sir: I received the Portable Mortising Machine about 3 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.

This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20. MUNN & CO.

FRENCH BURR STONES.—We can furnish an excellent run of Burr Stones, 4 1-2 feet, for \$145, carefully put upon ship board. Apply to MUNN & CO.

WOODWORTH'S PLANING MACHINE.—For sale, the right to use this justly celebrated labor-saving machine in the following States, viz., Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama, and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 208 Broadway. 17 1/2*

TO MACHINISTS AND FOUNDRY MEN.—The Maryland Machine Manufacturing Company will positively sell at public auction, without reserve, all their Machinery, Tools, Foundry Fixtures, &c., at the Factory, Ellicott's Mills, near Baltimore, on Wednesday, Jan. 14, 1852. The list embraces a great variety of new and modern-built tools, in good order and but little used, among which are 20 Turning Engines of various sizes; two superior Iron Planing Machines, one being of very large capacity; one superior Gear Cutting Engine; one Slabbing Machine;—with a large and complete assortment of other Tools. The sale will commence at 10 o'clock. Terms of sale—All sums under \$100, cash; over \$100 and under \$500, four months; over \$500, six months. GEORGE POE, Agent, Ellicott's Mills.

WHITAKER'S PATENT CRADLE.—This is an invaluable addition to the Nursery, and no family should be, nor will be, without one of them, after a short time. In practical value, this invention surpasses every other attempt of the kind. The novel and attractive features of Whitaker's Cradle are, 1st, that it will impart a swinging or rocking motion, as preferred; 2nd, it is propelled by the combined weight of the cradle and child; 3rd, it is destitute of any noise whatever, the moving power being derived through a spring crank; 4th, it will continue to rock or swing, regardless of the shifting of the child from side to side of the cradle; 5th, it can, at pleasure, be made to discourse music, which will continue as long as the discards rocks, if allowed to do so; 6th, it possesses a regulator, with which it can be made to rock or swing fast or slow, as desired.—Union or State rights offered on accommodating terms. Address L. F. WHITAKER, Greenville, Pitt Co., N. C. 16 3*

FOR ONE DOLLAR A-YEAR.—Either of the following journals may be obtained: THE AMERICAN PHRENOLOGICAL JOURNAL.—A Repository of Science, Literature and General Intelligence, amply illustrated with Engravings. THE WATER-CURE JOURNAL and Herald of Reforms.—Devoted to Physiology, Hydropathy, and the Laws of Life, profusely illustrated. Terms the same. THE STUDENT and Family Miscellany, designed for children and youth, parents and teachers. Illuminated with engravings. Terms the same. THE UNIVERSAL PHONOGRAPHER.—Devoted to the dissemination of Phonography and to Verbatim Reporting, with practical instruction to Learners.—Printed in Phonography. Terms the same.

Either, or all of these Monthlies will be sent by mail to any Post Office in the United States, for one dollar a year each. All letters should be post-paid, and directed to FOWLERS & WELLS, No. 131 Nassau street, New York. 16 2/2*

WANTED.—To purchase, 10 or 12 ring and traveller Twist and Filling Frames, of 132 to 160 spindles each, new or second hand, in first rate order—also one pair of hand mules, of 500 to 600 spindles, each second-hand. Address DAVID TRAINER, Marcus Hook, Pa. 15 4*

TRAUTWINE ON RAILROAD CURVES.

By John C. Trautwine, Civil Engineer, Philadelphia; just published and for sale by WM HAMILTON, Actuary of the Franklin Institute. Price \$1. "This is a really good work, and we heartily recommend it to our civil engineers."—[Scientific Am.] "We have carefully examined this work, and regard it as the best that has yet appeared on the subject." &c.—[Am. Railroad Jour. 8 10*

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 & Son, 114 John st., N. Y., are general agents. Address (post paid) Wm. POST, Architect, Flushing, L. I. 6 3m

BILLINGS PATENT BAND WRENCH, for Wagons and Carriages.—This article is fully described and illustrated by engravings in No. 7, Vol. 7, of the Scientific American. The Patent Band Wrench applies to wagons and carriages where the common or square nut is used. They are perfectly tight and prevent all dust and dirt from reaching the axle. The wheel is taken off by means of a small pocket key. A Silver Medal was awarded this article by the American Institute at their late Fair in this city. The Bands are manufactured by the Patent Band Wrench Co., located at Claremont, N. H. Smith Van Horn & Co. are the agents for this city. Orders addressed to them, as above, will meet with prompt attention. A. M. BILLINGS, 12tf General Agent for the Co.

TO STAIR BUILDERS.—"The Universal Stair Builder," just published by R. A. CUPPER, Architect, New York, shows plans of the various forms of Stairs, with a new method of sawing the twist part of any handrail and joints, square, from the face of the plank, and to a parallel width, the same as for any horizontal work, which can be done at the saw-mill for one-sixth part of what it costs by hand.—The saving of material and labor is from 50 to 100 per cent. The work is beautifully executed, and the diagrams drawn to a large scale, so that the simplest mind can understand it. Price \$6. For sale by Wm Gowans, 178 Fulton st., N. Y.; Benjamin Green, 124 Washington st., Boston, Mass., and at 240 West 20th st., N. Y. Books can be forwarded to any part of the United States, by enclosing the money. 15 3*

THE EXCELSIOR Sand and Emery Papers. are offered as new and superior articles, being manufactured by an improved process; the paper is made from the best Manila hemp, and consequently is very strong and lasting; the grit is of the sharpest and most enduring kind, and is firmly attached to the paper with a remarkable evenness of surface; their freedom from ridges, stripes, and other imperfections, recommend them to the notice of consumers. These papers have been used by many of our first mechanics, and are pronounced superior to all others. Every sheet is stamped Blanchard & Parsons, and warranted. Samples furnished at the office, No. 187 Water street (2nd story), New York. 14 6m* BLANCHARD & PARSONS.

PATENT CAR AXLE LATHES.—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 pounds, price \$800. I will furnish a man with each lathe, who will turn and finish axles for 64 cents each, if desired. I have also for sale my patent engine screw lathe, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1500 lbs., price \$225. The above lathes warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 7 6m*

1851 TO 1856.—WOODWORTH'S PATENT Planing Machines.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Machine. Price of the machine 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. 9 10*

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. 11tf

BALLOONS.—I am prepared to manufacture Hydrogen Balloons of from 1 pound to 50,000 lbs. ascending power to order. Balloons capable of carrying up one or two persons always on hand. The Balloons will be of the most perfect construction, so that any person can, with certainty and safety ascend with them. Instructions to insure success given to purchasers gratis. JOHN WISE, Lancaster, Pa. 9 10*

P. W. GATES'S PATENT DIES FOR CUTTING SCREWS.—Patented May 8th, 1847.—This Die cuts Screws of any size, V or square thread, by once passing over the Iron. Also, Lead Screws for Lathes, Hoisting Screws, &c. All orders for Dies and Taps, with or without machines, will meet with prompt attention by addressing P. W. Gates, or Gates & McKnight, Chicago; Marshall, Bement & Colby, Philadelphia; Woodburn, Light & Co., Worcester, Mass. References.—All the principal machine shops in New York, Philadelphia, and Boston. 13 6m*

CHAS. W. COPELAND, Consulting and Mechanical Engineer, Surveyor of Steam Machinery, &c., No. 68 Broadway, N. Y.—Superintends the construction of steam vessels, and steam engines and machinery of every description; specifications and contracts prepared; also, general plans and drawings in detail furnished. Steam engines surveyed and valued, and condition reported. Mr. C. also acts as agent for the purchase and sale of steam vessels, steam engines, boilers, &c. 14 4*

ADIRONDAC American Cast Steel.—This steel has recently been greatly improved in uniformity, soundness, strength, and toughness. It is purely American, and will be sold as low as the imported; this improved quality is warranted superior to any other in market. Friends of home industry are requested to try this new and uniform steel. QUINCY & DELAPIERRE, Warehouse 81 John st., N. Y. 15 6*

HAWKINS'S Stave Dressing Machine.—Is now in operation in the city of Milwaukee, Wis., and will dress from 6 to 8000 staves per day, ready for the truss hoops, and at one operation. Rights for States and Counties, and also machines, for sale, apply to WM. HAWKINS, Patentee, Milwaukee, Wis. 15 20*

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

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., have on hand six 12 ft. slide lathes, 28 in. swing; also four 8 ft. do.; 21 in. swing, with back and screw gearing, with all the fixtures; one 5 ft. power planer; 12 drill presses, 4 bolt cutting machines, 30 small slide rests; 5 back geared hand lathes, 21 in. swing; 15 do. not geared; 8 do. 17 in. swing on shears 5 1-2 feet; 25 ditto with and without shears, 13 in. swing; counter shafts, all hung if wanted suitable to the lathes. Scroll chucks on hand; also index plates for gear cutting. Cuts of the above can be had by addressing as above, post-paid. 9tf

BEARDSLEE'S PATENT PLANING MACHINE, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the above named foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 5tf

WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanics' Tools of all descriptions. Orders respectfully solicited and punctually attended to. Washington Factory, Newark, N. J. 7 20*

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. 9tf

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 Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 13 tf

MALLEABLE IRON FOUNDRY, EASTON, Mass.—The subscriber continues to manufacture castings of every variety, for machinery and other purposes, of the best quality, at the above establishment, we have facilities for making castings 5 1-2 feet in length. Persons wishing castings can send patterns to Easton Express, Boston, Mass. All letters will be promptly attended to. 8 10* DANIEL BELCHER.

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, New Haven, Ct.; or WM. WOOD, Westport, Ct. All letters will be promptly attended to. 37tf

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. 60 Beaver N. Y.—The subscriber is constantly receiving and offers for sale a great variety of articles connected with the mechanical and manufacturing interest, viz.: Machinists' Tools—engines and hand lathes; iron planing and vertical drilling machines; cutting engines, slotting machines; bolt cutters; slide rests; universal chucks &c. Carpenters' Tools—mortising and tennoning machines; wood planing machines &c. Steam Engines and Boilers from 5 to 100 horse power. Mill Gearing—wrought iron shafting; brass and iron castings made to order. Cotton and Woolen machinery furnished from the best makers. Cotton Gins; hand and power presses. Leather Banding of all widths made in a superior manner; manufacturers' Findings of every description. P. A. LEONARD. 10tf

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*

RAILROAD CAR MANUFACTORY.—TRAICY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty, and good taste, as well as strength and durability, we are determined our work shall not be surpassed. JOHN R. TRACY, THOMAS J. FALES. 39tf

IRON FOUNDERS MATERIALS.—viz.: fine ground and Bolted Sea Coal; Charcoal, Lehigh, Soapstone and Black Lead Facing. Iron and brass moulding sand; Fire Clay, Fire sand and Kaolin;—also English, Scotch and Welsh Fire Bricks—plain arch, circular and tower cupola—for sale by G. O. ROBERTSON Liberty place, between 57 and 59 Liberty-st. (near the Post Office) N. Y. 7 12*

MCCORMICK'S PATENT REAPERS AND MOWERS.—1700 of these machines, for which the great Medal of the World's Fair was awarded, are being manufactured at Chicago, Ill., with the intention of supplying the South-eastern States for the next harvest. The gold medal of the Chicago Institute was recently awarded for this Reaper and Mower, tested against two other mowers, in cutting prairie grass; and the first premium of the State Agricultural Societies of Wisconsin, Michigan and Pennsylvania, were also awarded at their late Fairs. Price \$120 at Chicago, and \$122 delivered at Philadelphia; terms otherwise accommodating. 9tf

PHOTOGRAPHY.—A Treatise on the Chemical changes produced by Solar Radiation, and the production of pictures from Nature by the Daguerreotype, Calotype, and other Photographic processes—by Robert Hunt, Professor of Mechanical Science in the Museum of Practical Geology, author of "Researches on Light," "The Poetry of Science," etc.: with additions by the American Editor. The above is the title of a new and complete work upon the Daguerreotype and Photographic art: 12mo. 290 pp., containing 77 illustrations, with fine likenesses of Daguerre and Niepce. Bound in cloth, and forwarded by mail free of postage at the following rates—one copy, for any distance under 500 miles, \$1.25; over 500 miles and under 1500, \$1.38; any distance over 1500 miles and under 2500, \$1.50. Post-Office stamps taken. Address (post-paid) S. D. HUMPHREY, Publishers, New York. 16 3*

VENTILATION.—Mr. Rutan, of Coburg, Canada, is desirous of an opportunity to direct the erection (for ventilation) of a good dwelling or school house in the city of New York. For particulars inquire at the Scientific American Office. 15 10*