

TO CORRESPONDENTS.

N. U. P., of N. Y.—The oscillating cylinder engine can be built cheaper than any rotary we have ever seen; it is also more simple; of this you are not aware, but it is really so. The mode of moving your arms or pistons is different from what we have seen in any other rotary. We hope you will consider the subject well before you go to any great expense. We are not favorably inclined to it; this opinion will be received, no doubt, with the disinterested spirit in which it is given.

J. E. F., of N. S.—If it were possible we would give the price of the machines we publish, but we cannot always do this, as the persons who own them expect to be addressed by letter, owing to some enquiries being always made before purchasing. We do not know the price of Dick's Press, but we believe it will answer for hay, oil, and fish; it perhaps would be about \$350.

A. B. G., of Texas.—We have drawings of Bain's Electric Clock, but we cannot afford time to take and send you a diagram.

L. A. B., of N. Y.—No patent could be obtained for making a house of hexagonal or any other form. The proposition you submit could not be reduced to a patentable subject, and you are advised not to attempt it.

J. C., of Mass.—Bourne says, "upon well formed railways, with carriages of good construction, the average tractive force required for low speeds is about 7-12 lbs. per ton, or one three-hundredths of the load, though, in some experimental cases, where particular care was taken to obtain a favorable result, the tractive force has been reduced as low as one five-hundredths of the load. This you may take as an answer to your question."

J. E., of Ohio.—Yours of the 30th ult., enclosing \$30 for one Alcott Lathe, is received: it will be forwarded immediately.

C. H. R., of Me.—Your sketch of an improved rock drill has been examined: we believe it possesses novelty of a patentable character; of its value we cannot speak. A patent would cost between \$50 and \$60.

J. E. A., of Ct.—We do not think any patent could be obtained upon your modifications of the chain-pump. The change seems to be merely in the mechanical construction, and could not be called an invention. We wrote you to Mansfield about the other matter, the "Centre" was omitted.

S. T. B., of N. Y.—We have seen a press constructed upon the same plan as you submit. You cannot obtain a patent.

I. A., of Pa.—The model which you furnished us will answer the requirements of the Patent Office perfectly, and we will retain it until we hear from you again.

J. S., of Mass.—Your case is being re-examined, and as soon as the second decision is given we will lose no time in advising you.

E. A. D., of Me.—We have examined the description you send of the boiler: it is not new—the same plan was invented by Mr. Hoard, of this State, several months since.

A. D., of Mass.—The contrivance you name in yours of the 7th, has been examined, the first claim you present is believed to possess novelty sufficient to warrant an application for a patent.

A. E. D., of Ky.—The "Builder" is published in London. There is no publication issued regularly in this country relating to your profession. We should be happy to have served you with copies. The Sci. Am. will be sent you regularly.

S. R., of Me.—We do not know of any such machine as you refer to.

A. B. E., of Va.—When a patent is refused by the Commissioner, the applicant can have remedy by an appeal to the Chief Justice of the District Court of the United States for the District of Columbia; notice must be given to the Commissioner of such intention and \$25 paid to the credit of the patent fund.

R. I., of N. H.—The model is only required to show what is new and what is claimed—nothing must be omitted to show this clearly. We have had communications from others, previous to yours, about making the stones run in opposite directions.

H. S., of N. Y.—For various reasons, as you perhaps have been able to judge, we have been unable to publish yours.

B. M. H., of —.—We know of nothing into which the old shoe leather parings could be economically manufactured. We know of no person at present who is acquainted with making starch, who wishes to engage in the business, but if we discover any one, we shall be happy to comply with your request.

J. S. & Co., of Ohio.—The glass gauge, you know, is in common use, and, with the exception of the four cocks in yours, it is the same; this is all the difference so as to make the steam pass through the glass downwards, or the water upwards, as you desire. We do not see where we could well base a claim, although the indicator is a good one.

J. W. D., of Phila.—The modifications of gas burners are numerous. The common argand we like best. The first diagram of yours is the same as some conical faucets for water, and could not be patented. The second figure represents a new arrangement to us, but surely it is more expensive than the common plans in use. We think it is good, however.

C. W., of Tenn.—Your arrangement of the parallel motion is somewhat different from others, but we suppose the principles of its production are pretty well understood: Sir Isaac Newton pointed them out long before they were applied to the steam engine, but to Watt belongs the credit of this application.

W. O. S., of —.—You must be content with the rules which we shall publish for estimating the horsepower of your wheels—we cannot afford time to make the calculations.

J. H., of Ala.—We have received your letter, and will state that air-tight draught boxes for the wheels have been long known. If you will examine page 230, this volume of the Scientific American, you will find a wheel of the same description as yours, only it is hung on a horizontal shaft: it is our opinion that you will not be able to secure a patent.

Money received on account of Patent Office business since August 5:

J. R., of R. I., \$30; C. T., of N. Y., \$55; A. P. K., of N. Y., \$50; H. A. L., of N. Y., \$10; S. I., of N. Y., \$20; T. H. G., of N. Y., \$25; A. N., of Va., \$60; R. M., of S. C., \$40.

W. R., of Mass.; C. W. R., of D. C.; C. B., of O.; J. S. of N. Y.; E. C., of Me.—Your cases have been filed into the Patent Office since last week's issue of the Scientific American.

Persons who are so kind as to forward unpaid letters, stating that certain patented inventions are not new, will please discontinue their favors in future. The operation is rather too cool for this weather. We can't stand it.

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, price, in sheets, \$2; bound, \$2.75.
Of Volume 6, all back Nos., at subscription price.

New Edition of the Patent Laws.

We have just issued 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 regulations 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 rate.

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 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. In the item of charges alone, parties having business to transact abroad, will find it for their interest to consult with us, in preference to any other concern.
MUNN & CO., Scientific American Office,
128 Fulton street, New York.

A. B. WILSON'S SEWING MACHINE.—We are now selling the rights for territory for this incomparable machine at low rates. We furnish to the parties the best and only practical Sewing Machine—no larger than a lady's work-box—for the trifling sum of \$35. Examine for yourselves at 195 and 197 Broadway, room 23, Franklyn House Buildings, N. Y. GEO. R. CHITTENDEN, Agent. 48 2*

PROPERTY FOR SALE.—In Clinton County, Pa., consisting of 31.4 acres of land, with a valuable water privilege, the improvements being 1 two story frame building, 24 by 90 feet, suitable for a factory or shop, and a good dwelling house, stable, &c. For further particulars address G. S. GAKTH, Mill Hall, Clinton Co., Pa. 48 2*

JACK-SCREW FOR RAISING BUILDINGS, Locomotive Engines, and other heavy bodies, also double and single threaded vice screws, mill screws for raising mill stones, cheese press, carpenter's clamps, and music stool screws, all of which are warranted to be superior articles: manufactured and for sale wholesale and retail by Tolman & Brown, Hinsdale, N. H. "We have examined the screws manufactured by Messrs. Tolman & Brown, and believe them to be of the finest quality, both as regards the workmanship and durability. MUNN & CO." 48 4*

CHICAGO SEED STORE AND AGRICULTURAL Warehouse.—The undersigned have formed a co-partnership under the name and style of Starkweather & Hooker, for the purpose of establishing a Depot in Chicago for the purchase and sale, on commission or otherwise, of Seeds, Agricultural and Horticultural Implements, Machines, &c., of every description, respectfully solicit the attention of agriculturists and manufacturers of implements, to our establishment, and give assurance that every facility will be offered for ready sale on the most advantageous terms.
C. R. STARKWEATHER,
49 4* J. W. HOOKER.

WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanics' Tools of all descriptions: Washington Factory, Newark, N. J. 38 13*

MECHANICS' FAIR.—The Middlesex Mechanic's Association will open their first exhibition for the encouragement of the mechanic arts and manufactures in the city of Lowell, on Tuesday, Sept. 16, 1851. The Committee of Arrangements for this proposed Fair, respectfully invite and solicit all persons engaged in the various branches of mechanism, manufactures, science, and art, to present specimens of their various products for exhibition and premium. Ladies are cordially invited to present specimens of their ingenuity and taste. Premiums will be awarded as the articles presented may merit. Articles for exhibition should be sent on or before Sept. 10th. For more particular information or copies of the circular, address (post-paid) J. A. Beard, Esq., Supt., Lowell, Mass. By order, OLIVER M. WHIPPLE, Chairman. M. C. BRYANT, Sec'y. 40 10

LEONARD'S MACHINERY DEPOT, 109 Pearl St., 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 tenoning 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, and power presses. Leather Banding of all widths, made in a superior manner; Manufacturers' Findings of every description. P. A. LEONARD. 33tf.

GREAT REDUCTION IN PRICE.—The most valuable book of the day, containing domestic and medical recipes, rules with regard to the recovery and preservation of health, an account of the different medical theories of the day, useful tables, &c., entitled "THE GRAEFENBERG MANUAL OF HEALTH." It is complete in one volume of seven parts, and is beautifully printed upon fine paper, in a convenient form of 300 pages. The immense success which has attended the sale of previous editions, has warranted a reduction in the price of this (the 7th) edition, from 50 to 25 cts. per copy. Any number of copies, from one upward, will be forwarded upon the receipt of the money (post-paid). Address THE GRAEFENBERG COMPANY, 214 Broadway, N. Y., or this Office. 38tf.

MORTISING MACHINE.—Dear Sirs: 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., June 22, 1851.
The above machines are for sale by MUNN & CO., price \$20—boxed and shipped. 42 tf

WANTED.—A situation is wanted by a person capable of planning and constructing furnaces for smelting iron ore, or erecting rolling mills. He is an experienced mechanic, thoroughly conversant with the iron business, and would like a permanent situation in some of the Southern States. Address M. E., Dover, N. J. 45 10*

LAW'S PLANER FOR PLANK, BOARDS, &c., is now attracting much attention on account of its effectiveness, the excellence of its work, its simplicity, and consequent economy. Machines are now in operation in Brooklyn, New York City, and at various points South and West. Rights or machines for sale by H. LAW, 23 Park Row. 45 tf

INDUSTRIAL EXHIBITION.—The "Maryland Institute for the Promotion of the Mechanic Arts," will hold its Fourth Annual Exhibition of American Manufactures, Machinery, &c., in the splendid new Hall, now being finished at Baltimore, from 20th Oct. to 18th Nov. next. Mechanics, manufacturers, and others are cordially invited to deposit specimens of their best productions, in competitions for the Gold and Silver Medals, Diplomas, etc. Steam power, labor, &c., is offered free to depositors. Great care will be taken that fair play shall be shown to all the exhibitors. Those desiring to deposit articles are required to notify the Committee at once, stating the nature of the goods, and the probable amount of room required to display them to advantage. Circulars containing full particulars, rules, &c., with a view of the Institute's new Hall, may be had by addressing the Agent, J. S. Selby, or the undersigned, who will promptly give any other information to those who desire it. See editorial columns of Sci. Am., of Aug. 2, 1851.
ADAM DENMEAD,
46 5 Chairman Com. on Ex.

1851 TO 1856—WOODWORTH'S PATENT PLANING, TONGUEING, AND GROOVING MACHINE.—Ninety-six hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price of the machines from \$150 to \$300. For rights in the unoccupied Counties and towns of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 46 4*

MILLWRIGHT AND MACHINIST.—The undersigned begs leave to draw the attention of all who may have occasion to use machinery to his new and extensive arrangements for furnishing Steam Engines and Boilers of various sizes, mill gearing and wrought-iron shafting; Log, Circular, Veneer, Scroll, and Slitting Saws, and other machinery connected with a manufacturing establishment, upon the most favorable terms at his works, corner Eleventh avenue and West 29th st. THOS. J. WELLS. 46 4*

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., have on hand six 12 ft. slide lathes, 29 in. swing; also four 8 ft. do., 21 in. swing, with back and saw gear, 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. 47tf

KELLY & CO., New Brunswick, N. J., Foundry and Machine Shop, manufacturers of Stationary Engines, India Rubber Machinery, Mill Gearing and Stove Castings, &c. Articles made in the machinery line to order with dispatch and in the most workmanlike manner. Parties wanting machinery or castings made will be waited on within any reasonable distance. Orders solicited. 47 12*

MANUFACTURE OF PATENT WIRE Rope 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*

A CARD.—The undersigned beg leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers, and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubs) and Swiss Files and Tools, also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English style, which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBENMANN, Importer of Watchmakers' and Jewellers' Files and Tools, and manufacturer of Mathematical Instruments, 154 Fulton st. 42 3m*

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. 43tf

TO PAINTERS AND OTHERS.—American Anatomic Drier, Electro Chemical graining colors, Electro Negative gold size, and Chemical Oil Stove Polish. The Drier, improves in quality, by age—is adapted to all kinds of paints, and also to Printers' inks and colors. The above articles are compounded upon known chemical laws, and are submitted to the public without further comment. Manufactured and sold wholesale and retail at 114 John st., New York, and Flushing, L. I., N. Y., by QUARTERMAN & SON, Painters and Chemists. 48tf

MACHINERY.—S. C. HILLS, No. 12 Platt Street, 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; Mortice 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. 38tf

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, crotch, circular, and tower copola, for sale by G. O. ROBERTSON, Liberty Place, between 47 and 59 Liberty st., (near the Post Office), N. Y. 44 12*

RAILROAD CAR MANUFACTORY.—TRACY & 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 Manufactory 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 be unsurpassed.
JOHN R. TRACY,
39tf THOMAS J. FALES.

LAP-WELDED WROUGHT IRON TUBES for Tubular Boilers, from 1 1-4 to 7 inches in diameter. The only Tubes of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine, and other Steam Engine Boilers.
THOS. PROSSER & SON, Patentees,
16tf 23 Platt st., New York.

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.

MONTGOMERY MANUFACTURING CO'S Iron Works, Montgomery Ala. Capital invested, \$250,000. Steam Engines and Boilers, Reuben Rich's cast-iron centre vent water wheel and iron scrolls complete (the very best wheel in use), sugar mills, saw and grist mill irons of most approved patterns, iron and brass castings of every variety, &c. Orders promptly executed, and upon terms as favorable as can be secured from the best northern establishments. When required, deliveries made (through their agents) at Mobile or New Orleans. Address GINDRAT & CO., Agents. 42 3m

WANTED IMMEDIATELY—To go South, one smith, two pattern makers, and one finisher, who must not only be good workmen but possess qualifications which belong to gentlemen, they must be temperate, honest, and faithful. To such, permanent employment and good wages will be given. For particulars, address, post-paid, MUNN & CO., at this office immediately. 46 tf

WOOD'S IMPROVED SHINGLE MACHINE—Patented January 8th, 1850, is, without doubt, the most valuable improvement ever made in this branch of labor-saving machinery. It has been thoroughly tested upon all kinds of timber, and so great was the favor in which this machine was held at the last Fair of the American Institute, that an unbought premium was awarded it in preference to any other on exhibition. Persons wishing for rights can address, (post-paid) JAMES D. JOHNSON, Easton, Conn., or Wm. WOOD, Westport, Ct. All letters will be promptly attended to. 37tf

STOP THIEF.—All editors are requested to pass the scoundrel round. The public are cautioned against a pirate who stole the Model of a Match Splint Machine invented and patented by me on the 20th of April, 1851. The said person is trying to sell my machine under secrecy and pretence that it is his own. He being irresponsible and not to be believed, I would advise all to beware of him. I will hold all persons who may purchase the right of this machine from him responsible for the payment. L. L. GILLILAND, Dayton, O., July 10, 1851. 45 4*

AARON KILBORN, No. 4 Howard street, New Haven, has on hand, and is now finishing, five 14 horse-power engines; price, including boiler and all fixtures, \$1200; twelve of from 12 to 6 horse-power, all of the most approved patterns, iron bed frame and pulley balance wheel. Galvanized Chain, and fixtures for chain pumps always on hand and for sale. 45 10*