

TO CORRESPONDENTS.

W., of Tenn.—It is not possible for us to occupy the amount of room necessary to explain the plus and minus signs, as requested, and then we might fail to do so in a simple manner. Davis's Logic of Mathematics is very clear on the subject.

C. W., of Tenn.—Your plan of a rotary engine is much too complex to warrant an application for a patent, or the outlay of money on experiments. No good result can come from it, we are persuaded. Upon the point of novelty, we think you have a slightly different arrangement from any other we have ever seen, although we are familiar with many others, some of which are not worth one copper.

C. S. & B., of N. Y.—It is possible that claims could be made upon your machine on which a patent would be granted; but such points as you mention as desiring to claim are covered by other patents: for instance, the pressure rollers for keeping the lumber up to the knives; that is the vital principle of Woodworth's patent. The money has not come to hand yet.

E. S. Z., of Md.—The machines we advertise would be suitable for your business, but a new set of chisels would be required. They could be obtained from the manufacturers at a reasonable rate. Turning lathes can be obtained here.

C. E. A., of Me.—We do not see how you can obtain a patent for such modifications as you specify. In the patent granted to Mr. H. he claims, "and anything substantially the same," which will, in our opinion, effectually cut off your prospects. Don't spend any more money upon it.

O. N., of Tenn.—Send on your model as soon as possible, and it will be taken up immediately on its receipt. We shall press your case as fast as possible, and have not the slightest doubt of success.

J. M., of Ga.—We recommend to your attention the remarks of Mr. Conger in our last and this number. You are perfectly right about what is termed centrifugal force.

B. N., of Va.—By reference to the advertisement of A. Kilborn, in another column, you will notice he has on hand the pump chains.

R. E., of N. Y.—You had better address John Gibson, of Albany; he will furnish you all the particulars about the Woodworth machine. We send you one of his cards by mail.

J. B., of N. Y.—We certainly hope the Mechanics' Institute will succeed; Col. Pratt, the President, is a worthy man, and his name adds weight and character it might not otherwise obtain. The Colonel is a true mechanic, and a regular subscriber to the Scientific American. We must all take strong hold and pull steadily together.

G. E., of N. Y.—Iron blinds, constructed on a similar plan to yours, but rendered more perfect in their operation, by an important addition not described by you, are in common use in this city.

T. E. S., of Pa.—Send on your model and a slight description of it, and portray in writing what its particular advantages are over the usual alloys, and enclose the government fees (\$30) and we will prepare your application speedily.

W. P. E., of D. C.—Your \$2 was received on the subscription. The box from the Patent Office was received duly. How much do we owe you?

F. S. C., of Mass.—Your contrivance for indicating the distance run by vehicles is believed to be new and patentable. It depends much upon its management whether it would pay or not. This is better decided after trial.

B. H. W., of Ct.—We cannot think the invention at all similar, but our opinion may not coincide with that of the judge. We think, however, it will. Wait and see what course will be adopted.

Z. S. D., of Mass.—We wrote you immediately upon receipt of your letter, that Messrs. McFarland & Bischo, of Worcester, Mass., manufactured malleable iron. No charges are made.

S. C., of N. Y.—We have examined the subject of your sketch, and regret to state that the arrangement is not patentable. By reference to No. 1, Vol. 6, you will find the same invention.

D. E. A., of Miss.—Glad to hear from you with such a fine list of subscribers. We hope to merit your good opinion for the future as it appears we have in times past.

Money received on account of Patent Office business for the week ending August 30:

A. F. of Mass., \$20; R. V. DeG., of N. Y., \$52; W. W. L., of Conn., \$54; B. & W. of Ct., \$20; A. S., of N. Y., \$5; J. O., of N. Y., \$40; P. H. K., of N. Y., \$50; S. C., of Ct., \$25; H. K., of Va., \$11; W. S., of R. I., \$20; G. W. T., of Mass., \$30.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office during the week ending August 30:—

W. W. C., of Miss.; A. F., of Mass.; J. B., of N. Y.; M. & F., of L. I.; H. A. L., of N. Y.; S. C., of Ct.; J. O., of N. Y.; A. S., of N. Y.; A. K., of N. Y. (2).

Postage on Books.

Subscribers ordering books or pamphlets through us are particularly requested to remit sufficient to pay postage, or we cannot attend to their orders. We are obliged to pay from 10 to 50 cents every time a pamphlet or book is sent by us through the post, and the justice of our demand is made apparent.

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.

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 cents per copy.

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 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 2 feet 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. 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, 123 Fulton street, New York.

TINNERS' IMPROVED MACHINES.

Dealers and workers in Tin Plate and Sheet Metals are hereby informed that the subscribers have the exclusive right of manufacturing "Wright's Patent" Sheet Iron Folding Machine; No. 1, two and a half feet, and No. 0 five feet in length. "Flanders' Patent" Rotary Shears, for Cutting Circles of 3 to 20 inches in diameter, from tin and other metals, and turning an edge on the same at one operation. Also for cutting circles from paper or pasteboard. "Walker's Patent" Tin Folding Machine; No. 1, 17 inches, and No. 0, 20 inches in length, (a new article). By the use of the above much labor may be saved and many kinds of work done that no other machine will do. The above, together with all kinds of Tinner's Machines and Hand Tools, of superior quality, are for sale at our Works, East Berlin Station, on the Middletown Railroad, and by our agents in most of the principal cities. ROYS & WILCOX. 51 2*

TWO MILLERS.

My attention has lately been attracted by an extensive hand-bill, circulated in the West and South by a Mr. James M. Clark, or some one interested in vending a certain Patent Mill of his invention. In said handbill strong inducements and flattering encouragements are held out to induce the milling community to purchase said Mill for the purpose of re-grinding the entire output of a continuous operation; and through the medium of your paper I wish to caution the public, that, by adopting the plan suggested by Mr. Clark, they will surely infringe "Bonnell's Process," which was patented Aug. 14, 1849, and they will be held accountable. Persons wishing rights of "Bonnell's Process," can have them on low terms by applying to the patentee, at Tecumseh, Mich. D. P. BONNELL. 51 3*

LARGE LATHE FOR SALE CHEAP.

A new Lathe, 16 feet long, swings 31 inches, turns 12 1-2 feet; has 25 changes of screw gear, weighs about 5,000 lbs, has counter shaft, &c. Price \$550, cash. Apply to S. C. HILLS, 12 Platt street, where the lathe can be seen. 51 4*

HUTCHINS' CRANK INDICATOR.

The subscriber having purchased the entire right of Hutchins' Patent Crank Indicator, would respectfully inform the public that he is ready to supply orders or sell territory. The Indicator has been used aboard the "Northern," "Bay State," "Cataract," "Niagara," "Ontario," and "Lady of the Lake," the Captains and Engineers of which have all given their testimonials of approbation. Address G. S. WORMER, Steamboat Office, Oswego, N. Y. 51 6*

CHILD'S PREMIUM SAW MILL.

To Plank Road Contractors and Lumbermen generally.—The subscriber having obtained a patent for improvements in circular saw mills, by which large timber can be cut with as great facility as small, and with one half less power, and one-third less waste of timber than by ordinary mills, offers mills and rights on reasonable terms. For illustration see Scientific American of March 15th, 1851. O. C. CHILD. Granville, Ill., May, 26, 1851. 39 9eow*

PRAIRIE FARMER WAREHOUSE.

Chicago, Ill.—The undersigned are prepared to manufacture extensively various kinds of labor-saving machines for farmers. Patented having good, well tried inventions which they would like to introduce into the West, are desired to inform us of them. With those having the best machines of their kind, we will be glad to make arrangements to manufacture, paying a stipulated price on each machine sold. We buy no rights. Our shop is centrally located, with a 40 horse-power engine, and we believe we can offer good inducements to patentees. J. S. WRIGHT has a large acquaintance with western farmers, having for more than ten years published the "Prairie Farmer," the leading agricultural paper in the West; and Obed Hussey, the first inventor of the reaper, is a practical, good mechanic. WRIGHT & HUSSEY. 502*

JACK-SCREW FOR RAISING BUILDINGS.

Loocomotive 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. 484*

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 soliciting the attention of agriculturists and manufacturers of implements, to our establishment, and give assurance that every facility will be offered for ready sales on the most advantageous terms. C. R. STARKWEATHER, 484* J. W. HOOKER.

RAILROAD CAR MANUFACTORY.

TRAFFIC & 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 be unsurpassed. JOHN R. TRACY, 39tf. THOMAS J. FALES.

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*

INDUSTRIAL EXHIBITION.

The "Maryland Institute for the Promotion of the Mechanical 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 15th 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, &c. Steam power, labor, &c., is offered free to depositors. Great care will be taken that fair play shall be shown to all 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, Chairman Com. on Ex. 46 5

SCRANTON & PARSHLEY.

Tool Builders, New Haven, Conn., have on hand six 12 ft. slide lathes, 23 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; 3 back geared hand lathes, 21 in. swing; 15 do. not geared; 3 do. 17 in. swing on shears 5 1-2 feet; 25 do. 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. 47 1*

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*

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—not larger than a lady's work-box—for the trifling sum of \$35. Examine for yourselves at 195 and 197 Broadway, room 23, Franklin House Buildings, N. Y. GEO. R. CHITTENDEN, Agent. 51 2*

BOGARDUS' CELEBRATED HORSE-POWER.

Cranks, balance wheels, pitmans or noddle-heads, stirrups, feed hands, saw gate slides and rods, wrag wheels, carriage coggs, dogs, gudgeons, mill bars, saw gummers, and Hotchkiss wheels and shafting for saw mills; spindles, bales, drivers, hoisting screw and bales, regulating screws, mill pecks, bushes, smut machines, shafting and gearing iron water wheels for flouring mills; fly or roll bars and plates, paper cutters, Kay's collendering apparatus for continuous sheets for paper mills; screws for lathes and presses, jack screws, wrought and cast iron shafting, pulleys and hangers, heavy forging, cotton gin gear, screw-bolts and nuts, slip gudgeons are manufactured at the Speedwell Iron Works, Morris Town, N. J. Office in New York, No. 9 Gold st., with Logan, Vail & Co. P. S. Belting and bolting cloths supplied to order. GEO. VAIL & CO. 28 lamtf

CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c.

The undersigned having succeeded in counteracting, effectually, the influence of the changes of temperature upon the pendulum, and introduced a new regulator, by which great accuracy of time is produced, also the retaining power (which keeps the clock going while being wound) are prepared to furnish Clocks superior to any made in the United States. Ample opportunity will be afforded to test their performance, and those not proving satisfactory, when completed may be rejected. Astronomical Clocks made and warranted equal to any imported. Glass (Illuminated) Dials of the most beautiful description furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, L. I.

"Mr. Byram has established his reputation as one of the first clock makers in the world."—[Scientific American.]

"Mr. Byram is a rare mechanical genius."—[Journal of Com. 29 12eow*]

PALMER'S ARTIFICIAL LEGS.

Manufactured at Springfield, Mass., and 376 Chestnut st., Philadelphia, by Messrs. Palmer & Co.—All orders from New York and New England must be made to Palmer & Co., Springfield, Mass.—"I have examined carefully the Artificial Leg, invented by Mr. B. F. Palmer; its construction is simple and its execution beautiful, and what is most important, those who have the misfortune to require a substitute for a natural limb, and the good fortune to use it, all concur in bearing practical testimony to its superiority in comfort and utility. VALENTINE MOTT. New York, Jan. 29, 51." 39 6eow*

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 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 color, 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 Jo n 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 of all kinds; Beaumont's Patent 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 Botted Sea Coal, Charcoal, Leligh, 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, circle, circular, and tower copola, for sale by G. O. ROBERTSON, Liberty Place, between 57 and 59 Liberty st., (near the Post Office), N. Y. 41 12*

ARON 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 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*

LAP-WELDED WROUGHT IRON TUBES.

For Tubular Boilers, from 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, &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.

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*

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

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 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. 48tf.

MANUFACTURE OF PATENT WIRE

Ropes and Cables, for inclined planes, suspension bridges, standing rigging, mines, cranes, derrick, tillers, &c., by JOHN A. ROEBLING, Civil Engineer, Trenton, N. J. 47 1y*

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 is office immediately. 46, tf