

TO CORRESPONDENTS.

A. H., of N. H.—We have never known of such a plan for etching being proposed or used, we believe it to be new and useful.
H. M. P., of Mass.—We could not insert yours this week.
E. E., of S. C.—We have investigated the subject of your inquiry and find that there is quite a difference between the two contrivances.
O. A., of N. J.—The subject of your claim you will find in Letters Patent granted to J. P. Gaume, of Cincinnati, Ohio, June 6th, 1848.
B. E., of Me.—You will see by reference to page 308, Vol. 3, Sci. Am., that John Keely, of England, has anticipated you.
W. E. A., of Mich.—The patent of Mr. Merrick was granted August 15, 1848.
I. P., of Geo.—In No. 179 of the London Patent Journal you will find an engraving of Bessemer's improvements in extracting saccharine juices.
W. M. A., of Ga.—We shall await your arrival and will endeavor to accommodate you immediately.
E. J. E., of Ohio.—You are in error: try an experiment and thus be convinced.
P. S., of Tenn.—You are required to make oath that you verily believe yourself to be the original and first inventor, without regard to place.
H. E., of Pa.—The opinion of the Examiner in the Patent Office is entitled to little consideration.
E. D., of Me.—The machine you refer to was on exhibition at the last Fair of the American Institute, and operates essentially the same as yours.
H. P., of Iowa.—We presume that there is no reason for supposing any such thing; we have heard of no initiatory steps being taken to have the extension granted.
E. B., of N. Y.—You could not obtain a patent for the application of the screw to the raising or lowering the Cultivator.
C. A., of Pa.—The engravings of your improved boiler are being executed, and will appear in the Scientific American in a week or two.
H. & W., of S. C.—S. S. Farrar & Co.'s check for \$35 has been received and the amount credited to balance your account.
W. R. G., of N. Y.—W. has not yet received a patent.
J. L., of Ill.—We could not understand your draught and description; you were in too great a hurry.
C. W. W., of Ohio.—Yours will meet with attention.
S. D., of N. Y.—A Belgian patent may be granted for 5, 10, or 15 years.
C. H. A., of Mass.—By the second section of the Act of 1842, you will notice the provisions on which patents are recorded that were lost prior to the 15th Dec., 1836.
J. D., of N. J.—We wrote you several days since, in regard to your business, and hope you will not neglect a reply.
E. P., of Va.—By reference to Volume 3, Sci. Am., page 401, you will find an engraving and description of Blanchard's machine for turning irregular forms.
S. C., of Pa.—You can have your foreign business transacted at this office.
J. F. J., of N. C.—We shall communicate with you as soon as possible in regard to the churn and the paper, in answer to your favor of the 25th May.
J. P., of N. C.—You will get all the information you want, if you just take time and wait for the parts which are yet to be published on Hydraulics.
W. D. D., of N. Y.—Your plan for bending elliptical springs is not so good, in our opinion, as the machines now in use for that purpose.
S. J. M., of Pa.—Get an engraving of your invention published in the Sci. Am. It will be the means of bringing your invention into extensive notice, and help you materially in effecting sales.

E. A., of N. C.—In No. 23, Vol. 5, Sci. Am., you will find an engraving of Wood's Shingle Machine, which seems to combine all the principles involved in yours; you are therefore advised not to make an application.
H. K., of London.—Upon application to Messrs. Barlow, Payne, & Parken, 89 Chancery Lane, you can ascertain such particulars as you desire.
E. A. C., of N. Y. City.—You will find, by reference to page 262, Vol. 7, London Patent Journal, that Wm. Payne, of London, obtained a patent for certain improvements in watches and clocks.
J. A. C., of Miss.—In the invention referred to, the steam, after circulating through the coil in the evaporating pan, is passed into another coil placed in a cistern, from which the evaporating pans are supplied so as to heat the fluid before introducing it thereto.
W. G. W., of Mass.—A may obtain a patent; nothing can hinder him; the only danger in so doing lies in this: if the patentee sued for an infringement, the defence might be able to prove, owing to the sales, that the invention had been abandoned to the public; this would make the patent void.
C. W. S., of Conn.—We don't know were the mats are manufactured.
H. W. B., of Vt.—Yours will be noticed by-and-bye.
C. H. W., of Boston.—The plates alone are what is valuable about the Iconographic Encyclopedia.
J. P. M., of N. Y.—We still cannot see how your rudder could be steered easier; both of its blades form radii of a circle, and act as levers; the resistance, therefore, would be equal to the single blade of a diameter equal to the two radii.
W. R. R., of N. Y.—The plates alone are what is valuable about the Iconographic Encyclopedia.
Money received on account of Patent Office business since April 23:—
C. H., of Pa., \$30; J. B., of Mich., \$53; C. A. W., of N. Y., \$35; D. & R. P., of N. Y., \$30; C. A., of Pa., \$38; C. F. B., of R. I., \$56; M. F. G., of Iowa, \$35.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since April 23:
J. G., of Mass.; J. V. S., of Iowa; H. R. R., of Vt.; W. & N., of N. Y.; A. J., of S. C.; M. F. G., of Mich.; C. A., of Pa.; C. F. B., of R. I. (two); J. M. L., of N. Y.

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.

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" 12 lines, 75 cts., " "
" 16 lines, \$1.00 " "
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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.

Branches of our Agency have been established in London, under the charge of Messrs. Barlow, Payne & Parken, celebrated Attorneys, and Editors of the "Patent Journal," also in Paris, France, under the charge of M. Gardissal, Editor of the "Brevet d'Invention." We flatter ourselves that the facilities we possess for securing patents in all countries where the right is recognized, are not equalled by any other American house. MUNN & CO., 128 Fulton street, New York.

TO MACHINE SHOPS.—Received, this week, at Leonard's Machinery Depot, 109 Pearl, and 40 Beaver st., three superior Engine Lathes, 9 and 10 feet beds, 24 in. swing, screw feed; also a full assortment of Universal Chucks and Chucks for Planers. 32 2 Address P. A. LEONARD.

HOVEY'S PATENT STRAW CUTTER.—Wm. Hovey, of Worcester, Mass., has opened a warehouse for the sale of his Cutters, at 60 Court and st., New York. WM. HOVEY, Patentee. 32 4

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 Woollen Machinery furnished from the best makers. Cotton Gins, hand and power, and power presses. Leather Banding of all widths, made in a superior manner, from the best oak tanned leather. Manufacturers' Findings of every description—bobbins, reeds, shuttles, temples, pickers, card clothing, roller cloth, potato and wheat starch, oils, &c. P. A. LEONARD. 33f.

SCRANTON & PARSHLEY, New Haven, Conn., will have finished by the 10th of May, 12 Slide Lathes, with 8, 10, and 12 feet beds; these lathes swing 21 in., have back and screw gear, have over-head reversing pulleys, all hung in a cast-iron frame, with drill, chuck, centre, and follow rest. S. & P. will also have 12 upright drill presses ready to ship at the same time; they have also constantly on hand 5 and 9 feet power planers, the same as heretofore advertised in this paper. Hand Lathes and slide lathes constantly on hand. Cuts, with full descriptions and prices, of the above tools can be had by addressing as above (post-paid.)

PATENT CAR AXLE LATHE.—I am now manufacturing and have for sale the above lathes: they will turn and finish six sets per day, weight 5,000 lbs., price \$600. 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, if the above lathes do not give good satisfaction, the money will be refunded on the return of the lathe, if within six months. J. D. WHITE, Hartford, Conn. 32 13*

IMPORTANT TO CARRIAGE MAKERS and Dealers.—Sprout's Patent Combined Carriage Springs are manufactured and sold by the Union Co., Bridgeport, Conn.; Wm. Wright & Co., Newark, N. J., and John B. Bell, Pittsburgh Pa. Proprietors—Sprout, Burrows & Co., Hughaville, Lyeccing Co., Pa. For further description see circulars, which may be obtained at the above place. 32 2*

STEAM ENGINES AND BOILER.—Several Steam Engines, now finishing, from five to fourteen horse-power; also one of 15 and one of 25. Having just enlarged my manufactory, I am now prepared to make all sorts, from 2 to 50 horse-power, of the best materials in all their parts. One second-hand engine of 8 horse-power, two cylinders, in good order, for sale, with new boiler, \$575. Also Galvanized Chain for chain-pumps. AARON KILBORN, No. 4 Howard st., New Haven, Conn. 32 19*

FOOTE'S INFALLIBLE COUNTERFEIT Bank Note Detector at Sight: applicable to all Banks in the United States, present or future; illustrated with steel plate and diagrams; highly recommended by bankers and brokers. Price \$1.00, including a magnifying glass (mailable). Address MUNN & CO., Office of the Scientific American. 30ew*

LAWRENCE SCIENTIFIC SCHOOL.—Harvard University, Cambridge, Mass.—Special Students attend daily, from 9 o'clock, A. M., till 5 o'clock, P. M., in the laboratories, and under the direction of the following Professors:—Louis Agassiz, Professor of Geology and Zoology; Jeffries Wyman, M. D., Professor of Comparative Anatomy; Henry L. Eustis, A. M., Professor of Engineering and Physiology; Eben Norton Horsford, A. M., Professor of Chemistry. Instruction is also given by Prof. Pierce in Mathematics; Prof. Lovering, in Physics, and the Messrs. Bond at the Astronomical Observatory. All lectures delivered to under-graduates of the College are free to members of the Scientific School. For further information apply to E. N. HORSFORD, 29 6* Dean of the Faculty.

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. 16tf

1851 TO 1856—WOODWORTH'S PATENT PLANING 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, which may be seen in constant operation in the steam planing mills at Boston, Philadelphia, New York, Albany, Troy, Utica, Rome, Syracuse, Geneva, Albion, Lockport, Buffalo, Jamestown, Gibson, Binghamton, Oswego, &c. The price of a complete machine is from \$100 to \$1,000, according to size, capacity, and quality. Persons holding licenses from the subscriber are protected by him against infringements on their rights. For rights to use these machines in the Counties of Columbia, Dutchess, Queens, Richmond, Suffolk, Westchester, and other unoccupied counties and towns of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 27 00w6*

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 on. Address SHERRY & BYRAM, Oakland Mills, 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 1200w*

WILLIAM W. HUBBELL—Attorney and Counsellor at Law, and Solicitor in Equity, Philadelphia, Penn.

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. 29 3m*

DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteawan Company, having entered into an arrangement with the Patentee for the manufacture of the so-called Dick's Anti-Friction Press, are now prepared to execute orders for the following, to which this power is applicable, viz.—Boiler Punches, Boiler Plate Shears, Saw Gummers, Rail Straighteners, Copying and Sealing Presses, Book and Paper Presses, Embossing Presses, Presses for Baling Cotton and Woollen Goods—Cotton, Hay, Tobacco, and Cider Presses; Flaxseed, Lard, and Sperm Oil Presses; Stump Extractors, &c. &c. The convenience and celerity with which this machine can be operated, is such that on an average, not more than one-fourth the time will be required to do the same work with the same force required by any other machine. WILLIAM B. LEONARD, Agent, 25tf No. 66 Beaver st., New York City.

MACHINES FOR CUTTING SHINGLES.—The extraordinary success of Wood's Patent Shingle Machine, under every circumstance where it has been tried, fully establishes its superiority over any other machine for the purpose ever yet offered to the public. It received the first premium at the last Fair of the American Institute—where its operation was witnessed by hundreds. A few State rights remain unsold. Patented January 8th, 1850.—13 years more to run. Terms made easy to the purchaser. Address, (post-paid) JAMES D. JOHNSON, Reddi g Ridge, Conn., or Wm. WOOD, Westport, Conn. All letters will be promptly attended to. 10tf

GURLEY'S IMPROVED SAW GUMMERS.—for gumming out and sharpening the teeth of saws can be had on application to G. A. KIRTLAND, 205 South at., N. Y. 10tf

TO PAINTERS AND OTHERS.—American Anesthetic 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 1 Flushing, L. I., N. Y., by QUARTERMAN & SON, Painters and Chemists 22tf

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 cut; Best's patent Cob and Corn Mills; Burr Mill, and Grindstones, Lead and Iron Pipes, &c. Letters to be noticed must be post paid. 26tf

BAILEY'S SELF-CENTERING LATHE, for turning Broom and other handles, swelled work, chair spindles, &c.; warranted to turn out twice the work of any other lathe known—being in a first rate manner 2000 broom handles and 4000 chair spindles per day, and other work in proportion. Orders, post-paid, may be forwarded to L. A. SPALDING, Lockport, N. Y. 21tf

FOREIGN PATENTS.—PATENTS procured in GREAT BRITAIN and her colonies, also France, Belgium, Holland, &c. &c., with certainty and dispatch through special and responsible agents appointed, by, and connected only with this establishment.—Pamphlets containing a synopsis of Foreign Patent laws, and information can be had gratis on application to JOSEPH P. PIRSSON, Civil Engineer, Office 5 Wall street, New York. 24tf

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 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, THOMAS J. FALES. 16tf

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 28 Platt st., New York.

IRON FOUNDERS MATERIALS—viz., fine ground and Bolted Sea Coal, Charcoal, Lehigh, Soapstone and Black Lead Facings of approved quality. Iron and brass founders' superior Moulding Sand, Fire Clay, Fire Sand, and Kaolin; also best Fire Bricks, plain and arch shaped, for cup las &c.; all packed in hogheads, barrels or boxes for exportation, by G. O. ROBERTSON, 4 Liberty Place, near the Post Office, N. Y. 22 3m*

MATAFAN MACHINE WORKS—Corner of Second and A sts., South Boston. The undersigned have recently enlarged their business and are now prepared to offer a great variety of Machinists' Tools, viz., Engine and Hand Lathes, iron Planing and Vertical Drilling Machines, Cutting Engines, Slotting Machines, and Universal Chucks; also Mill Gearing and Wrought Iron Shafting made to order. 22 12*

SASH AND BLIND MACHINE.—Patented by Jesse Leavens, Springfield, Mass. The machine planes, molds, mortises, bores, tenons, copes, franks, cuts off, rips up the stuff, planes the blinds, shades, and sets out the sash. This machine is 4 by 5 feet, weighs 800 lbs., requires two horse-power to drive it, and cost \$300 cash—extra charge for the right to use. Shop, town, county, and State rights for sale. Orders from abroad will be promptly attended to by addressing JESSE LEAVENS, Palmer Depot, Mass. 278*

WANTED.—The services of two sober industrious men, thoroughly acquainted with the manufacture of palls in all its departments. None but competent persons need apply. Address (post-paid) HENRY B. TEW, Haddel's Point, S. C. 322*