

TO CORRESPONDENTS.

W. P., of Ill.—You are well aware, we suppose, that the air engine, acting nearly on the principle you describe, is older than the steam engine; you have only looked to the pressure of the air to assist in one direction, while it resists to the same amount in the other direction, and nothing is gained, and nothing lost, to be sure. The air-tight cylinder was one of the grandest improvements ever made on the steam engine.

T. J. J., of N. Y.—A wedge rail and grooved wheel has been long known; they were used before the T rail. They do not answer at all. This same plan was proposed by Mr. French, of Va., for steep inclines. In your plan for engraving, the whole work would have to be done on the wax, as carefully as on the clean wood. This would take as long, as the wood is very easy to work. The plan is the same as that for etching copper-plates.

J. L. P., of Phila.—The galvanizing of the iron is to cover it with zinc. Clean the iron well, then have the zinc melted in an iron vessel, and put in some salamoniac and tallow, then dip in your plates. We do not know the establishment where the galvanizing is carried on.

J. L. B., of —.—We do not know what would be the price of the agricultural analyzing apparatus to which you refer, nor where it could be found. The best works on the subject of Agricultural Chemistry, are those of Johnston, Norton, and Liebig. Get those and you can do all the rest. We will try and fulfill your request at some future time.

W. P., of Mich.—It is indeed true that you can destroy the equilibrium of pressure in a water box, by the inequality of the surface so as to produce motion on the side of the greatest pressure, but what amount of motion do you get? Any more than you give? No. There is no new power called into existence, and none but what is well known. We could not advise you to go to any more expense, for no ultimate benefit will result from the same.

C. J. M., of Ohio.—Yours next week.

V. K. of —.—The depilatory powder to which you refer is not sold in this city. We could not speak personally of its merits. It does not at least remove the hair permanently.

J. E., of Ohio.—Its density is uniform throughout, but for railroad purposes it has been tried—and faithfully tried—and found unfit for the purpose.

A. B. G., of Ct.—Euclid is the best work you can get.

W. S., of Pa.—Gun-flints are all made by hand; we could give you the description, but it is too long to give here. The process is described in Barlow's Encyclopedia.

H. & W., of Andersonville.—We omitted to state in our letter, a few days since, that the \$1 bill enclosed in yours of the 10th, was good; it was passed to your credit.

S. S., of Phila.—Geo. Bruce resides in this city and carries on an extensive type foundry.

D. B., of Mass.—We do not understand the advantages likely to arise from your plan for propelling canal boats over some others; neither do we see any patentable novelty in it to justify an application.

J. P. G., of Me.—The elements in your machine for governing the water in steam boilers seem to be good, but this can never be satisfactorily determined without the aid of experiments, which must be made to satisfy yourself and others interested. There appears to be novelty in the arrangement which could be made the subject of a patent.

C. R., of Ill.—There is nothing so durable for the purpose as Roman cement. \$1 received.

M. M., of Wis.—The proper way for you to obtain the desired information is to address a letter to the Commissioner of Patents, Washington, D. C., he will give you the information: no one else can.

X. Y. Z., of Mass.—We cannot give the information you ask for.

J. M. J., of Me.—Such a machine as you refer to was patented some time since, by Joseph Graume, of Cincinnati, Ohio. The price, &c., we cannot give, but presume it can be obtained by addressing him as above.

T. B., of New Haven.—The price of Brewster's Optics, we think, is one dollar. It is the best work upon the subject up to this time.

R. B., F., of N. Y.—Pocket microscopes can be had for prices varying from \$1 to \$25; a good one can be obtained for \$12. John Roach, 79 Nassau st., has them for sale. \$1 received.

O. A. J., of Vt.—We have forwarded two copies of the Scalpel, as you directed.

H. E., of Cincinnati.—You could not obtain a patent for the sliding letters; they have been used before, and were made the subject of a patent some years since.

A. E. C., of Miss.—The circumstance you mention is not at all surprising or unusual: by reference to page 418, Patent Office Report, for 1849, Dr. Page mentions the fact that a patent was granted for one species of atmospheric churn, and before the fact could have been known far beyond the walls of the Patent Office, six inventors from different parts of the country were all pressing their claims before the Office for the same contrivance; cases of this kind have come under our own personal observations.

E. C., of La.—We can scarcely imagine how you are to accomplish the object you propose; it is contrary to the laws of chemical affinity. We think you will be disappointed in the end.

F. V., of Mich.—Your method of attaching the single wheel to the Cultivator could not be patented; contrivances for this purpose have been used before, and in a manner substantially similar to yours. We cannot encourage you to spend money upon an application.

A. H., of Mo.—The arrangement of the brushes we do not think could be secured by a patent. Some machines have been brought forward for cleaning streets where the dirt was all taken up and placed in a receptacle—none seem to have been effectual up to this time. We entertain the opinion that yours would not obviate a single difficulty not attained by Bishop's machine; neither can we see how a valid claim to a patent could be based.

C. A. C., of Md.—It would cost you about \$300, by packet, to visit the World's Fair and remain three or four weeks, we should think; about two months would be consumed in going and coming.

J. L. M., of Ala.—The improved Corn Sheller belongs to Carter & Harris, of Yorkshire, N. Y., and is good, the price we cannot give. The "Refrigerator" is a good article, but as yet we have not heard of its being brought into the market. Messrs. Geo. Vail & Co. manufacture the horse power of Mr. Bogardus. Some improvements have been made whereby the friction is lessened, and is now, perhaps, as good for 4 horses as any in use: it is much used for cotton gins. James Stewart, of this city, makes good turning lathes at prices varying from \$25 to \$100. N. Hunt & Co., 110 Water street, Boston, are sole agents for Swingle's Patent Mortising and Boring Machine, price \$125. Small sized mortising machines for light work can be had for \$20.

W. L. L., of Pa.—The work to which you refer has been discontinued. Engineers and railroad companies would not support it.

M. S., of Ct.—Next week we will present to our readers an engraving of the Wind Mill.

W. F., of Boston. There are a number of engravings required to illustrate the welding process: they are now in the hands of the engraver.

J. C. H., of Miss.—We do not know where or at what price, such springs could be had as you require; H. H. Day, of this city, could make an india rubber one we should think. If such an one would answer your purpose you could address him upon the subject.

Money received on account of Patent Office business since March 26:—

E. B., of N. Y., \$700; M. C. B., of N. H., \$15; W. & B. D., of Ct., \$30; G. B. C., of N. Y., \$55; C. F. B., of R. I., \$40; G. H. R., of Ill., \$30; W. H. H., of N. Y., \$20; J. C. B., of Ark., \$30; A. G. D., of Ct., \$45; W. G., of N. Y., \$10; G. B. W., of N. Y., \$10; T. & G., of N. Y., \$30; H. & E., of N. Y., \$30; A. S. B., of N. Y., \$55.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since March 26:

W. & B. D., of Conn.; G. W., of Mass.; B. & M., of N. Y.; W. G., of N. Y.; I. B. L., of Vt.; S. G. S., of Ga.; and A. G. D., of Ct.

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 should not 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 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.

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\*

A VALUABLE INVENTION FOR SALE. It being out of the subscriber's line of business, a valuable invention will be sold cheap. For particulars address "A. N.," Sharp Town, Somerset Co., Md., post-paid. 29 2\*

BONE MANURE.—A very superior quality of Bone Dust, finely ground, for Farmers and Gardeners, warranted pure and dry to keep in any climate. Apply at the Eagle Mills, Rossville, Staten Island, or at the office, 62 Beaver st., N. Y. 1\*

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

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. Lovring, 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.

PORTABLE GRIST MILLS.—Of the best construction, at the following prices:—12 inch hand mill, \$40; 16 in. do., \$45; 18 in. Burr stone, power, \$90; 24 inch do. \$100; 30 in. do., \$150. \$15 additional for the gearing of the 18 and 24 inch; the 12 and 16 inch are geared with cranks. The 30 inch is driven from the spindle; 18 in., 2 horse power, will grind 4 bushels per hour; 24 in., 3 horse, 5 bushels; 30 in., 4 horse, from 6 to 8 bushels; speed, 300 revolutions per minute. Address (post-paid) to MUNN & CO., at this Office.

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 cupolas &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\*

MATAPAN 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\* GEO. HEPWORTH & SON.

PATENT DREDGE BOAT.—The subscriber having obtained a patent for improvements on the Dredge Boat, offers to sell rights to build and to use his Patent Dredge Boat in any part of the United States; the excavating apparatus consists of twenty scoops, preceded by plows receiving great pressure, and are capable of raising eight or ten cubic yards of mud or gravel per minute; the scooping apparatus may be fitted on an old steamboat or other vessel, for the purpose of removing bars or other obstructions to navigation. A working model may be seen by calling on the subscriber. JAMES CALLAGHAN, 20 10\* No. 64 Spruce st., New Bedford, Mass.

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. The 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. 27 8\*

FELLY CUTTING MACHINE.—Messrs. JOSEPH ADAMS & SONS, Amherst, Mass., offer for sale town, county, and State rights, or single machines, with the right to use, of their unrivalled Felly Cutting Machine, illustrated in No. 5, Vol. 6, Scientific American. It is portable, easily kept in order, requires but little power to drive it, and will execute in the most rapid and perfect manner, cutting 60 good fellys in one hour. 27 8\*

STEAM ENGINE FOR SALE.—We have for sale a 12 horse-power Horizontal Engine, complete, with flue boiler, second-hand, newly re-fitted, in excellent condition, has not been used to injure it; solid cast iron frame, manufactured by the "Novelty Works," this city. Its original cost was \$1,450, and will now be sold for \$900 cash, the owner having no further use for it. Apply to MUNN & CO. 27 1f

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, Owego, &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 eow6\*

CLOCKS FOR CHURCHES, PUBLIC Buildings, Railroad Stations, &c.—The undersigned having made important improvements in the construction of clocks, especially in the apparatus for counteracting the influence of the changes of temperature upon the pendulum, and in the retaining power, together with a most precise method of adjusting the pendulum to correct time, are prepared to furnish Clocks superior to any made in the United States, both for accuracy of time-keeping and durability. They speak with confidence, from having tested their performance for several years. Ample opportunity will be afforded purchasers to test their qualities, and all clocks not proving satisfactory, when completed may be rejected. Astronomical Clocks made and warranted unsurpassed in their performance.

Glass (Illuminated) Dials of the most unique and beautiful description furnished on short notice. 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 12eow\*]

DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteawan Company, having entered into an arrangement with the Patentes 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. LE NARD, Agent, No. 66 Beaver st., New York City. 13 1f

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, Redding Ridge, Conn., or Wm. WOOD, Westport, Conn.. All letters will be promptly attended to. 10 1f

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 st., N. Y. 10 1f

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., will have finished 2 Power Planers ready to ship by the 1st of Feb., that will plane 9 feet long, 31 inches wide, and 24 inches high, with angle feed; counter shaft, pulleys, and hangers, splining and centre heads, with index plate, and weigh over 5,000 lbs.; also 2 power planers that will plane 5 feet long, 22 in. wide, and 20 in. high, with counter shaft, pulleys, and hangers, and weigh 2,400 lbs.—These planers are 25 per cent. lower than any others built. Cuts can be had by addressing as above, post paid. 19 1f

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 22 1f

MACHINERY.—S. C. HILLS, No. 12 Platt Street, N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills Kaese'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 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. 26 1f

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—doing 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. 21 1f

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 JOSEPH P. PIRSSON, Civil Engineer, Office 5 Wall street, New York. 24 1f

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. 16 1f

FOWLERS & WELLS, Phrenologists and Publishers, Clinton Hall, 131 Nassau st., New York.—Office of the Water Cure and Phrenological Journals. Professional examinations day and evening. 3 6m

MANUFACTURERS' FINDINGS and Leather Binding.—The subscriber is prepared to offer a large assortment of manufacturers' Findings for Cotton and Woollen Factories, viz., bobbins, reeds, harness, shuttles, temples, rockers, harness twines varnish, roller cloth, card clothing, card stripper and clamps, calf and sheep roil, leather, lace, and picker string, potato & wheat starch, oils, &c. Leather Banding, of all widths, made in a superior manner from best oak tanned leather, riveted and cemented. 23 3m P. A. LEONARD, 116 Pearl st.

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, 16 1f 28 Platt st., New York.

BROOM MACHINERY.—The most improved and durable machinery for the manufacture of Brooms, for sale by JACOB GRAY, Scotia, Schenectady Co., N. Y. Address post-paid. 22 8\*

LEONARD'S MACHINERY DEPOT, 116 Pearl st., N. Y.—The subscriber has removed from 66 Beaver st. to the large store, 116 Pearl st., and is now prepared to offer a great variety of Machinists' Tools, viz., engines and hand lathes, iron planing and vertical drilling machines, cutting engines, slotting machines, universal chucks, &c. Carpenters' Tools—mortising and tennoning machines, wood planing machines, &c. Cotton Gins, hand and power, Carver Washburn & Co.'s Patent. Steam Engines and Boilers, from 5 to 100 horse power. Mill Gearing, wrought iron shafting and castings made to order. Particular attention paid to the packing, shipping, and insurance, when requested, of all machinery ordered through me. P. A. LEONARD. 23 3m