

TO CORRESPONDENTS.

E. W., of Damascusville.—The drawing of your churndash represents precisely the same feature of three others that have been sent to us for examination within a month, none of which are patentable.

J. C., of Mass.—We don't know what you mean by a spindle valve, although puppet valves are usually operated by a spindle, and many safety-valves also are operated in the same manner.

W. P. C., of Pa.—It is not our intention to say anything more about the pendulum experiment for the present.

W. J., of Mass.—The Water Balance Wheel is objectionable on one account. If the water is thrown out of the valve, it has always to be filled up again; it would be a balance wheel of variable gravity.

M. C., of Ill.—Your model is received, and we believe your invention to be a valuable one. On the receipt of the government fees (\$30) we shall immediately take your case up for execution.

H. M., of Vt.—Your reasoning is perfectly correct, and we do not disagree in any one point.

J. B. S., of Wis.—If you will address Thos. Ling, Esq., at Saratoga Springs, N. Y., he will give you more information on the subject of force-pumps and engines than we can.

S. W. A., of Tenn.—Your advertisement amounts to \$1 each insertion—\$52 a year, weekly.

I. J. W. A., of Md.—We have examined the sketch of your contrivance for hoisting substances, and have some doubt of its patentability. It is something on the plan of the "Webber," published in Vol. 5 "Sci. Am." We have seen one made, having a chain passing through holes made in the ends of the levers instead of bars secured by pins as shown in yours. We could not advise you to make an application.

J. H. U., of S. C.—We have communicated the subject of your inquiry to Dr. Field, who will undoubtedly favor you with a reply.

I. F. D., of Brooklyn.—Your plan for using the power of waves would be too expensive for the benefits derived, and of but little use when most required, viz., in calms: we have seen a plan for using the power of waves by side clutch fins, but it was too clumsy for practical purposes.

C. E. L., of Conn.—You know that the brooms are employed for the same purpose as your bar, but the great defect lies in the want of proper guards along the track.

S. S. B., of Ohio.—You are mistaken about the tangent of the wheel at the ground being the centre of motion, the axle is.

C. C., of N. C.—We could not give you the information about the Wool Carding machine, only to direct you to the advertisement of Mr. Leonard. Mr. Carter, at Newark, N. J., sells spoke machines. The way to estimate the power of your engine is to multiply the pressure of the steam into the square inches of the piston, that by the number of feet the piston travels per minute, and divide by 33,000 for the horse-powers, allow 20 per cent. for friction and loss. This is easy.

E. C., of N. Y.—During the progress of our next Volume we shall publish articles upon architecture, and illustrate the subject with numerous engravings of cottages and other buildings. It will be the most interesting volume we have ever issued, and we hope you may be able to send us an increased list of subscribers.

G. & Co., of Ala.—In consequence of the absence of one of the firm, who attended to your business, we have been unable to reply to yours of the 3d inst. You may expect an answer in a few days.

J. F. K., of Vt.—You could not obtain a patent for the idea you suggest about the brazing: ideas are not patentable. There is nothing patentable in the method, and we advise you not to make application.

A. J., of Miss.—We have examined the subject you brought to our notice and find it a complete tissue of false reasoning. We cannot publish the article without exposing the errors into which the writer has fallen, and think, on the whole, that we will not do so, as there are very few of our readers who care anything about the subject.

J. C. A., of Va.—We mean to write you in full in a few days about the boiler.

J. Y. P., of Ohio.—The friction on the two journals would be no serious objection. You are right about the speed improvement, it makes better flour. We are very favorably impressed with the improvement: such coincidences in invention are not uncommon. We believe it would be well for you to go on and make trial of the improvement.

H. A. S., of Vt.—Yours will be attended to next week.

A., of Boston.—We are obliged to you for sending us the extract. We have received a great number of singular papers on the same subject. Yours is the first which takes cognizance of the three forces. A number of careful and long-maintained experiments are still wanting to clear up the whole matter fully.

T. H. D., of N. H.; E. G. B., of Me.; H. C. B., of O.; R. R. F., of N. Y.; R. M. W., of Va.; T. D., of S. C.; G. W. L., of N. Y., and J. W. O., of O.—the engravings of your inventions are all executed, and will appear in our columns in their order.

Money received on account of Patent Office business since June 17:

J. L. H., of N. Y., \$30; L. L., of Mass., \$20; A. B., of Mass., \$30; L. & E., of N. Y., \$30; R. M. W., of Va., \$50; W. B., of Ala., \$10; M. P., of N. Y., \$30; C. L., of N. Y., \$30; N. S., of N. Y., \$30; T. B., of N. Y., \$10; J. R., of N. Y., \$30.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since June 17:

E. G. H., of Me.; A. B., of Mass.; L. L., of Mass.; G. W. P., of Ct.; G. R. W., of Ct.; J. R., of N. Y.; O. S., of N. Y.; R. M. W., of Va. (2); and W. B., of Ala.

Post Office Stamps.

In consequence of the change of rates on the first of next month, we would respectfully notify the public that henceforth, until further notice, Post Office Stamps will not be received at this office in payment for subscriptions to the Scientific American.

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 preliminary drawings can 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 their interest to consult with us, in preference to any other concern. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

15 HORSE-POWER ENGINE & BOILER.

For \$1000.—We have for sale a first rate Engine and boiler, built by Stillman, Allen & Co., of the Novelty Works, which will be sold at about half its original cost. The boiler is 20 feet long and 35 in. in diameter; 2 return flues, 11 in. in diameter each, with steam chamber top of boiler 2 ft. high, by 16 in. diameter. The heads are wrought iron, with grate bars, fronts, binders, and bolts complete, all made in the best manner, and called by the manufacturers a 20 horse-power boiler; also sheet-iron can to conduct the smoke from the end of the boiler to the chimney. The Engine is upon a solid horizontal cast-iron frame 13 1/2 ft long, 2 1/2 wide, 9 in. deep; has a belt balance wheel 8 ft. diameter, 12 in. face; cylinder 2 1/2 ft. stroke and 8 3/4 in. diameter; has copper connecting pipes and heater for heating water before entering boiler; it has double pumps, and the whole is so complete and in such condition that no expense need be incurred in putting it in running order after being properly set. The Engine and Boiler have been in use but 3 years, and are offered at the low price of \$1,000 to close a concern. Any one wishing an engine and boiler of the above capacity, will find this an opportunity to purchase cheap which does not often occur. Any of our subscribers remitting a draft on New York for \$1,000, will receive in exchange therefor an engine and boiler which would not be furnished by a manufacturer for less than \$1,600. Address MUNN & CO., (Post-Paid.)

MECHANICAL DRAWINGS.—The subscriber, having returned to the city, will resume his business as Mechanical Draughtsman and Agent for the sale of Patents. Residence West Fifteenth St., first house east of Sixth av. J. H. BAILEY. 41 2\*

NOTICE IS HEREBY GIVEN.—That letters of attorney given to A. N. Cole to sell H. C. Brown's improved Bash Balance, have been duly revoked, countermanded, and made void, from the 12th inst., and recorded at Washington City. All persons having bought rights of said A. N. Cole, are notified to give immediate information of what portion of territory they have bought, or it will be sold again. Address H. C. BROWN, care of Munn & Co., No 128 Fulton st., N. Y. 1\*

THE COTTON CULTIVATOR, Patented March 20, 1819, is in successful operation in Maury Co., Tenn., both in the cultivation of corn and cotton; it is a saving of one-third the labor usually taken in the cultivation of the above named crops.—State, county, or plantation rights for sale: those wishing to buy will do well to come and see those who use them, and if they do not find them recommended by good farmers as here stated, I will bind myself to give them the right to any State or county. The farmers, in some places, have clubbed together and bought their counties, and have made money by it. The patentee, or some of his agents, will attend most of the Fairs this season, where the Cultivator may be seen. SAMUEL W. AKIN. 41 5\*

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 at 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 the most glowing testimony to its superiority in comfort and utility. VALENTINE MOIT. New York, Jan. 29, 51." 39 6meow\*

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 on 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

SCHOOL FOR ENGINEERING, 650 Houston st., N. Y.—Mr. VICTOR BEAUMONT, Civil Engineer, graduate from "L'Ecole Centrale des Arts et Manufactures," of Paris, is about opening a new course of lessons in the French and English languages, in all the branches, theoretical and practical, connected with Civil Engineering. For details and references apply at the School. 28 4\*

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 of machines for sale by H. LAW, 23 Park Row. 35 1f

IRON FOUNDERS MATERIALS—viz., fine ground and Bolted Black Lead, Soapstone, Lehigh Charcoal, and Sea Coal Facing Dusts. Iron and brass moulders' Sand, Fire Clay, Fire Sand, and Kaolin in barrels; also best Scotch Fire Bricks, plain, cupola, and side arch shaped, for sale by G. O. ROBERTSON, Liberty Place, (between 57 and 59 Liberty st., N. Y. 36 6\*

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 in use 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, 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. 33 1f.

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\*

WOODWORTH'S PLANING MACHINE.—For sale, the right to use this justly celebrated labor-saving machine in the following States, viz.: Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama, and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 304 Broadway. 38 10\*

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. 38 1f

DR. S. B. SMITH'S TORPEDO ELECTRO Magnetic Machines.—These machines differ from all other electro-magnetic machines. The inventor has made an improvement by which the primary and secondary currents are united. The cures performed by this instrument now are, in some instances, almost incredible. For proof of this I refer to my new work lately issued from the press, under the title of "The Medical Application of Electro Magnetism." Mail edition, 25 cents. Postage, 6 cents. The Torpedo Magnetic Machines are put up in neat rosewood cases of a very portable size. Price, \$12. To agents they are put at \$9. Postmasters, druggists, storekeepers, and all who are willing to be instrumental in relieving the sick, are respectfully invited to act as agents. Address Dr. S. B. SMITH 297 1-2 Broadway, N. Y., or MUNN & CO., 128 Fulton st., N. Y. Can be sent by Express to all parts of the Union. 39 4\*

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., having had many applications for castings from their lathe patterns, with beds planed and screw and gearing cut, have now made arrangements to accommodate that class of customers; this arrangement will enable small shops, with a little more than half of the amount of ready cash, to get them a new lathe. Cuts of these lathes and other tools can be had by addressing as above (post-paid). N. B. Machinists' tools constantly on hand. 40 1f

WOODWORTH'S PATENT PLANING MACHINES: 1851 TO 1856.—For rights at Honesdale, Carbondale, Providence, Pittston, Scranton, Wilkesbarre, Williamsport, Meadville, Newcasttle, and other unoccupied towns in Northern Pennsylvania and New York, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 41 4\*

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 a 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, 28, 1851. 39 9eow\*

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. BIBENMANN, Importer of Watchmakers' and Jewellers' Files and Tools, and manufacturer of Mathematical Instruments, 154 Fulton st. 29 6m\*

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, all Straighteners, Copying and Sealing Presses, Book and Paper Presses, Embossing Presses, Presses for Baling Cotton and Woolen 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, No. 66 Beaver st., New York City. 25 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. 37 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 35 1f

MACHINERY.—B. C. HILLS, No. 12 Platt Street, N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Kates, V. on 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 machine; Beal's patent Cob and Corn Mills; Burr Mill, and Grindstones, Lead and Iron Pipe, &c. Letters to be noticed must be post paid. 33 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, Lookport, N. Y. 21 1f

RAILROAD CAR MANUFACTORY.—TRAICY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of Railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty and good taste, as well as strength and durability, we are determined our work shall be unsurpassed. JOHN R. TRACY, THOMAS J. FALES. 39 1f

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, 28 Plattst., New York. 16 1f

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. 38 1f

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 1f

COTTON MACHINERY FOR SALE.—Viz., 4 Filling Frames, almost new; 1-16 Strand Speeder; 1 Warper; 1 Sapper; 2 Wind-mill Fans; 1 Reel; 1 Yarn Bundling Press; 1 Band Machine, and a large lot of tin cans. Apply to ELI WHITNEY, New Haven, Ct. 37 6\*

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' INSTITUTE FAIR.—The attention of Mechanics, inventors, and artisans is especially called to the Polytechnic Exhibition, which will open at the rooms, cor. Bowery and Division st., on the 15th of May. Those who wish to exhibit models, machinery, &c., of mechanical skill, and those who would like to carry on, permanently, any mechanical occupation that would be in any way curious or attractive to visitors, are requested to call on the Actuary. Steam power will be provided. Well-lighted, warmed, and airy rooms can be had on liberal terms. As this Exhibition is permanent, an excellent opportunity is offered to skillful mechanics to bring themselves into notice. Articles may be sent in immediately and will be taken care of and insured. Z. PRATT, Pres.; T. C. DODD, Actuary. 34 1f