

TO CORRESPONDENTS.

F. H. S., of Balt.—The great objection to your plan is in the use of the curb stones, which is a principal feature in it; this privilege will never be granted, as it almost embraces a question of private property.

J. O. O., of Ohio.—The same principle is embraced in what is termed Little's Double Acting Press.

S. R., of Pa.—The best way for you to bring your invention into notice is to get engravings of it published in the Sci. Am. It will soon bring you in some profits.

Z. P., of Pa.—When was the case tried respecting which you have sent us Judge Kane's charge. The particulars are not mentioned in any way, but we will use the information by-and-by, in order to render honor to whom honor is due.

J. B. C., of Tenn.—We shall make a good use of your information.

L. B. W. S., of Ky.—The common walnut or hickory, is the tree mentioned.

J. E. M., of Ala.—A grate as nearly the same as yours, as possibly it could be, was patented to a gentleman in Troy, N. Y., three weeks ago.

H. A. L., of N. Y.—We have never seen a sofa with the same kind of arrangement you have described. We believe it to be patentable. There is certainly a great loss by the use of your steam after it has been heated to the point you describe. Then is the time it should be applied to the piston instead of letting it into the water as you describe. The way of superheating your steam appears to be good. There is two per cent. of atmospheric air in water.

W. H. R., of Geo.—You would gain nothing by your arrangement. A large sized wheel of the kind represented could never work well without being arranged upon a shaft; it would work loose. We cannot advise you to spend money upon an application for a patent. Patent Laws sent.

L. R., of Mich.—We do not think a patent could be obtained upon your plan of a wheel. The idea of keeping paddles vertical is well known, and has met with a cold shoulder from practical engineers and boat builders. All the odd numbers you ordered have been sent. \$2 received.

C. W., of Pa.—If you mean the apparatus of Griffith for steam boilers, then we do recommend it.

F. M. E., of N. C.—A common power loom can be worked by applying a handle to the belt pulley. No common loom could do it. It is morally impossible to answer your second question about the pressure of the water. The pressure is according to the amount of the water discharged and the velocity in a given time. You can employ cast iron for the sluices and it is good. Wooden gates, however, can be made to answer your purpose, and every good millwright should be able to construct the best kind according to the circumstances of the case. There are various ways of operating the gates. The strong screw we have always preferred, and do still prefer. If in the time of a freshet you find your dams unable to withstand the pressure, then place no dependence on your gates. Make your dam and gates strong enough to stand every pressure, or do not build them at all. The best paint to use is good white or red lead, with well boiled linseed oil. You may have good paint spoiled by using bad oil—good boiled oil is the grand secret. We do not know anything about Remington's cement; we presume it is nothing new.

C. G. P., of Wash.—Yours came too late for this present number, but it will appear next week.

L. O., of D. C.—We know of no better person to recommend you to than Capt. C. F. Loper, of Phila. Mr. Loper has the reputation of treating inventors liberally, and no doubt would accept your proposition as extended to us, if he was satisfied that your propeller will accomplish the ends that you state it will. We never engage in speculation in inventions, that course would not harmonize with the feelings of our patrons who entrust their inventions in our hands for protection. It is not right that patent agents should engage in inventions on their own account, lest they become contaminated by self-interest, and thus allow the interests of their clients to suffer.

M. C., of Ala.—We have entered your name as subscriber for another six months. We have not time to attend to your order, nor should we know where to apply for the article if we had.

J. S. S., of Miss.—Volume 5 was mailed to you in sheets on the 4th inst., and your letter forwarded to Messrs. Lerow & Blodgett for their attention.

J. T., of Phila.—We believe your plan for boring to be new and patentable, although a brief claim could be made to the apparatus represented in the second diagram. Send your model and we will advise you further in the matter. The expense of preparing an application for a patent for you would be \$20, exclusive of government fees, which are in all cases \$30.

C. B., of Mass.—Your saw filing machine we understand fully, with the exception of the means used by you to sharpen the teeth in a tapering manner according to their bevel, which you have. We have never seen a saw filing machine which would interfere with your invention in the least; we would, however, refer you to Mr. Brown's, illustrated on page 223, Vol. 4, Sci. Am. Your grooving apparatus is good.

P., of M.—We have received yours and will give it attention.

H. R. R., of Vt.—It is impossible for us to inform you at what time your application for a patent will come up for examination. Probably, however, the case will be decided upon in the course of 6 weeks or 2 months.

F. A. C. F., of Ill.—It is impossible for us to understand the operation of your printing press from a mere description. Elaborate drawings should accompany a description of such complicated machinery as a printing press.

C. F., of O.—The diagrams which you sent us certainly delineate a very novel invention. It is our opinion that a patent might be obtained for you, we could judge better on that point, however, upon receipt of one of the locks.

A. E. B., of N. Y.—You are correct about the freedom of the Woodworth machine in Canada.

J. K. H., of Ind.—A patentee can, in most cases, make any improvements in the construction of a patented machine, providing he does not change the principle of it, and still his claim will cover it; that, however, depends on the wording of the claim in his letters patent. The common saw tooth blade for cutting grass has been patented, but we believe the patent has expired.

T. H. D., of N. H.—Yours will receive attention.

J. S., of N. Y.—The air expands just to the original bulk. It will take 1,000 lbs. pressure to heat it to the igniting point. You never can gain any benefit in the world from compressing air for heating purposes.

A great number of correspondents are left unanswered this week for want of room. We shall endeavor to answer all next week.

Money received on account of Patent Office business since June 4:

W. A. C., of Ct., \$30; T. H. D., of N. H., \$25; P. D., of Pa., \$20; A. K., of N. Y., \$30; J. R. H., of Mass., \$20; J. A. J., of Ct., \$10; G. R. W., of Ct., \$30; L. C., of Ct., \$6; S. F., of N. Y., \$10; T. M. C., of Me., \$30; A. W. P., of O., \$30.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since June 4:

M. M. I., of Ga.; A. K., of N. Y.; P. D., of Pa.; J. A. J., of Ct.; G. W. L., of N. Y.; J. R. H., of Mass.; L. C., of Ct.; B. & H., of N. Y.; T. L., of N. Y.; W. B., of O.; F. J. & Co., of N. Y.

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.

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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.

Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. In the item of charges alone, parties having business to transact abroad, will find it for their interest to consult with us, in preference to any other concern.

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

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. 30 4*

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. 392*

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. MILLD. Granville, Ill., May, 26, 2851. 39 9eow*

PALMER'S ARTIFICIAL LEGS.—Manufactured at Springfield, Mass., and 376 Chestnut, 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*

WANTED.—A young man who is well qualified to do all kinds of machine work with neatness and dispatch, to take charge of a small machine shop. A man with a small family would be preferred. None need apply without the best of references, and must be of good moral character, and sober and industrious habits. Also, would like to buy a good second-hand machine capable of planing from six feet in length. Address Box 16, Sandy Hill, N. Y. 39 2*

SCHOOL FOR ENGINEERING, 650 Honston 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. 38 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 or machines for sale by H. LAW, 23 Park Row. 35 tf

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. 34tf

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, 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. 33tf

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 Bore Lathe, for turning and chucking tapers, cutting screws, and all kinds of common job work; weight 1,500 lbs., price \$225, if the above lathes do not give good satisfaction, the money will be refunded on the return of the lathes, if within six months. J. D. WHITE, 32 13* Hartford, Conn.

IRON FOUNDERS MATERIALS—viz., fine ground and Botted 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, enpots, and side arch shaped, for sale by G. O. ROBERTSON, Liberty Place, (between 57 and 59 Liberty st., N. Y. 36 6*

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*

CLOCKS FOR CHURCHES, PUBLIC Buildings, Rail ad 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 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. 23 12eow*

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

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). 33tf

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 P. 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 Mattewan 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 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. 25tf

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 6th, 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. 37tf

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

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 35tf

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; Best patent Cob and Corn Mills; Burr Mill, and Grindstones, Lead and Iron Pipe, &c. Letters to be noticed must be post paid. 28tf

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. 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. JOSEPH P. PIRSSON, Civil Engineer, 37tf Office 5 Wall street, New York.

RAILROAD CAR MANUFACTORY.—TRAFCY & 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 1-4 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.

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.

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, \$375. Also Galvanized Chain for chain-pumps. AARON KILBORN, No. 4 Howard st., New Haven, Conn. 32 1/2*