

TO CORRESPONDENTS.

L. R. P., of Me.—When the weight is increased from 200 lbs. to 400 lbs., and changed to the middle of a lever from the end, say from a 5 feet oar to 21-2 feet from the thole-pin, then, if the 400 lbs. made a double stroke, it would exert a double power, but as it makes the same strokes as before, it has only the double weight in the arc, which the weight slowly describes. It brings more strain upon the thole-pin, but does not add speed to the boat. Every loss of pressure on the outer end of the oar, involves a loss of speed, unless it involves a gain of speed.

W. Y. L., of Geo.—The method of gearing so as to make the two stones run in opposite directions, as shown by your sketch, would not be patentable in itself, as it is well known, but we cannot see how any power would be saved,—rather the extra friction by the gearing will be a loss. We admit, however, that the transverse grinding surface action would be superior, and so far as we have been able to discover by examination, there is no patent for the same.

H. C., of L. I., N. Y.—The engine has more labor in proportion to the length of the horizontal shafting it has to drive, but every single machine on the same line requires as much effort of the engines as another. This is as we understand it.

H. T. E., of Ohio.—We do not see any thing patentable in either of your contrivances. The brake is not patentable and the matching machine is essentially the same as the one for which a patent is now pending. We cannot advise you to make an application.

G. M., of N. Y.—We cannot send you a drawing of Mr. Burnet's Horse-shoe Nail Machine at present, but presume we shall present our readers with an engraving of it before many weeks. Mr. Burnet resides in Boston, Mass.

T. A., of Ind.—The lathe to which you refer will not turn spokes, but you can obtain one that will, by addressing Abner Lane, at Killingworth, Ct.

J. R., of N. J.—We do not sell patent rights; our business is to make application for patents, leaving the subsequent management to the inventor or patentee. There is no call for such an improvement as you describe.

P. Y., of Pittsburg.—Glad to hear of your success. We shall be prepared to execute your papers with dispatch, upon receipt of the necessary instructions. Davidson is not known here. We say with you, "success go with him."

H. H. M., of Ind.—We shall examine your case as soon as we can dispose of preceding cases.

H. T., of Mass.—You will find engravings of Mr. Wiley's Blind Machine in No. 27, Vol. 3, Sci. Am.

J. R., of S. C.—We have forwarded your letter of inquiry to the parties interested in the machine, who undoubtedly will give you attention. \$2 received and endorsed as requested.

M. R. H., of Wis.—We are so much occupied with business pressing upon us all the time in the office that we cannot find time to collect the information you require about the rule. If we knew of any one who is engaged in the business we would attend to your wants with pleasure.

S. A., of Pa.—We do not see any thing patentable in your contrivance for saw-mills. A model in our office possesses essentially the same features.

E. M., of Mass.—If a straight piece of wire which has been rendered magnetic, be twisted in a spiral form, its magnetism will be strangely confused; in some parts it will attract, in others repel the same pole; and this will, in some portions of the wire, take place on its opposite sides. This experiment appears to indicate the disposition of the fluid to flow in a right line.

Doliver J., of Mass.—On page 175, Sci. Am., we asked you why you had not answered our letter which was sent to you more than two months before. We also mentioned that we had your papers as explained in the said letter; please write as soon as possible.

W. R. G., of N. Y.—It is proved that there is such an engine as you describe on exhibition at the London Polytechnic Institute, older by several years than yours.

A. A. D., of Ala.—We do not know what the expense of the hydraulic ram would be at present, nor if it would practically pay for the same, so as to answer a good purpose in the case to which you refer. We believe it would not, but we will endeavor to see one who has erected and who makes them, and get correct information on the subject.

T. B. H., of Me.—The persons you speak of have not consulted us. We have no account with I. R. at all. We believe your improvement is a very good one and patentable.

L. W., Jr., of Mass.—We think your contrivance different from any other known or used, and incline to the opinion that you can obtain a patent. If you should conclude to proceed, a model of the usual size will be required.

J. H., of Texas.—The model of your invention has arrived and will soon come up for attention. We shall communicate by letter the result of our deliberations.

G. B. R., of Ct.—Your case will come up for examination in its order, in the class of inventions to which it belongs.

E. E., of N. Y.—We have minutely examined the ideas involved in your arrangement, and candidly believe that no patent can be obtained; the contrivances involved in Gwynne's Wheel is essentially the same as yours. When you call upon us again we shall take pleasure in showing you the drawings and description.

G. & Co., of Ala.—The papers you submit for our examination will be attended to at an early date, and you may expect to hear from us by letter relative to the matter.

G. C., of Mass.—We believe your plan of the "wings" to be a patentable subject.

"A. M., of New Market, Tenn.—You may send on a description and sketch of your invention, and we will give our opinion upon it cheerfully.

M. M., of N. J.—Four-way-cocks were used by Leupold upwards of 100 years ago. Trevithick used them subsequently on locomotive engines.

A. A. M., of Mass.—We commend to your attention the series of articles upon the subject of gas now in course of publication in the Sci. Am.

W. R., of Ct.—We have never heard of a double furnace built and applied in the same manner as yours. We believe it to be patentable. Your test of its merits is evidence of its usefulness.

Steam, "Stame."—We have received a communication from Mr. James Frost, engineer, in relation to this subject; it is unavoidably delayed until next week.

R. S., of N. Y.—If you wish to do yourself some good, get an engraving of your invention published in our columns; it will only cost you \$10 for such a one as would explain it fully. Everybody who desires to be posted up on what is new in machinery, takes the Sci. Am. Your invention would be introduced to more than 20,000 persons.

R. J. S., of Pa.—Do not go to law about your patent in its present state; you will have to enter a disclaimer, for it is very evident that the document is poorly made out, and does not cover the desired object.

Money received on account of Patent Office business since May 5:

P. D., of Pa., \$30; C. S. G., of Vt., \$20; F. J. & Co., of N. Y., \$55; G. W. L., of N. Y., \$55; F. & J. N., of L. I., \$40; G. S. of O., \$40; E. B., of N. Y., \$400; J. H., of Texas, \$60; J. S. R., of Ct., \$50; D. W. E., of N. Y., \$25; S. & P., of L. I., \$20; J. C. A. of N. Y., \$20; R. D., of L. I., \$15.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since May 5:

S. C. A., of N. Y.; D. E. S., of O.; G. B. C., of N. Y.; S. & P., of L. I.; F. & J. N., of L. I.; T. B., of Mich.

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.

Terms of Advertising:

One square of 8 lines, 50 cents for each insertion. " 12 lines, 75 cts. " " 16 lines, \$1.00 " "

Advertisements should not exceed 16 lines, and cuts cannot be inserted in connection with them at any price.

American and Foreign Patent Agency.

IMPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon most reasonable terms. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M., until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 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 changes alone, parties having business to transact abroad, will find it for their interest to consult with us, in preference to any other concern.

MUNN & CO., 129 Fulton street, New York.

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

STEAM ENGINE FOR SALE.—A second-hand engine, with 2 cylinders, 3 inch diameter and 8 inch stroke, with boiler, pump, and governor, all complete; has been used for a short time; it cost \$500 and will be sold for less than half that sum. Apply to E. C. HILLS, (post-paid), 12 Platt st. 1*

ZINC AND WHITE OXIDE OF ZINC.—Wanted, to take charge of a manufacturing establishment of the above articles, by an experienced person who thoroughly understands the business. All applications will be promptly attended to by addressing "Chemist," at the Broadway Post Office, with name and residence. 1*

WILSON'S PATENT SEWING MACHINE.—This unrivaled and universally approved machine can be seen in operation at No. 195 and 197 Broadway, Franklin House Buildings, third floor, room 23. The public are invited to examine its operation, where they will find the owners prepared to negotiate for the disposal of rights and machines. Apply to WM. S. LOVELL, agent. 35 3*

IMPROVED STEAM ENGINE—Patent Right for sale. The theory of this improvement consists in admitting upon the piston an instantaneous jet of high pressure steam, the valve for this purpose opening and closing instantaneously. This minute quantity of steam, by its expansive force, propels the piston to the end of its stroke, and then, spontaneously condensing, produces a vacuum beneath the piston which promotes the energy of the engine. A great power, with a trifling expense of steam is obtained by this invention. Apply to C. J. CONWAY, 81 Leonard st., N. Y., where the operation of the principle may be seen. 1*

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

WANTED.—A gentleman residing in Alabama is desirous of obtaining the services of a man of sound judgment and good morals, who has no wife—one who understands thoroughly the business of manufacturing chairs. No one but a man who can give the best of reference as to qualifications need apply. Address (post-paid in all cases) to MUNN & CO., this office. 35 4

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

MOUNT PROSPECT INSTITUTE, West Bloomfield, N. J. (6 miles from Newark).—The object of this Institution is to prepare lads for business in every department of active life; mathematics and the sciences receive particular attention; surveying and civil engineering is carefully attended to; students make frequent surveys, and prepare draughts and maps of their surveys, and draw plans of bridges, locks of canals, &c. Instruction is also given in linear, perspective, and mechanical drawing. Terms from \$160 to \$200 per year. The sessions commence on the first day of May and November. WARREN HOLT, Principal and Proprietor. References—Geo. Gifford, Esq., 17 Wall st.; S. R. Parkhurst, Esq., 70 Broad st., N. Y.; Prof. James J. Maps, Newark, N. J. 34 4*

LEONARD'S MACHINERY DEPOT, 109 Pearl st., 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, petato and wheatstarch, 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 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, 32 13* Hartford, Conn.

FOOTE'S INFALLIBLE COUNTERFEIT Bank Note Detector, at Sight: applicable to all Banks in the United States, present or future; illustrated with steelplate 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

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 6w6*

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 12ew*

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

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 backward 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 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 Patentees 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 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. 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 st., N. Y. 10tf

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. 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; Morticing and Tenoning Machines, Belting, machinery, &c.; Beal's 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 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 1-4 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 Platt st., New York. 16tf

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

STEAM ENGINES AND BOILER.—Several Steam Engines, now finishing, from five to fourteen horse-power; also one of 16 and one of 25. Having just enlarged my manufactory, I am now prepared to make all sorts, from 3 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 Gas-welded Chain for chain-pumps. AARON KILBORN, No. 4 Howard st., New Haven, Conn. 32 14*