

TO CORRESPONDENTS.

F. H. S., of Pa.—We have never known any measure like yours being used. We believe it to be patentable.

A. S., of Ohio.—The experiments of Paret were electric experiments, and are claimed by Mr. Paine, Paret having borrowed the idea. You have already been informed of such experiments through our columns.

C. T., of N. Y.—You say truly that 16 wheels are more safe than 8 wheels, on a car. We do not, nor would any other person, dispute this point, but this greatly adds to the expense of the car. Taking a second view of your rails, we made a search to try and find out if there were any like them ever used before. We could not discover any, and consider them new and patentable.

L. W. B., of Mass.—The first 35 Nos. of the Scientific American, Vol. 3 can be furnished if desired. Price \$1.30.

J. W. E., of Tenn.—Your name was entered at McMinville, Penn., by mistake. We have sent the back numbers to render your files complete. The same mistake occurred on the "Sun" mail books, which we have had also corrected.

A. A. E., of Brooklyn.—We can supply all the numbers your friends want, with the exception of No. 1. O. P. S., of Mass.—The Scientific American is the only journal in this country devoted strictly to the Arts and Sciences, with the exception of the Franklin Journal, at Philadelphia, which is a monthly.

A. E. Z., of Me.—A Drying machine was brought into use in Paris, in 1839; it acted on the centrifugal system, and consisted of two drums or cylinders, one within the other, the inner one being pierced with holes. It is said to have been revolved at the rate of 4,000 times per minute.

A. R., of N. C.—Casein is the basis of the various kinds of cheese, and closely resembles albumen in many properties. It is a curdy white substance, insoluble in water or alcohol, but soluble in water containing an alkali or its carbonate. It is coagulable, and is separated from the milk in making cheese.

R. E. J., of Texas.—The specimen you send is no doubt basaltic rock; you can do nothing with it. We believe it is found in abundance in many portions of Mexico; it oft times presents a singular appearance when viewed from a distance—like some ruined work of art, building, etc.

R. Y., of Boston.—Mr. Wyld's great Globe is on exhibition at the World's Fair. It is said, by our correspondent to be a fine work of art.

P. & W., of N. Y.—The engravings of your machine are now being executed and will appear in the course of a week or two. We mean to have them well done.

C. E., of Pa.—Mr. Kase's pump is manufactured in London, we notice, by Key & Marshall, of Newgate st.; it has been well spoken of by some of our English cotemporaries.

J. H., of Ala.—We shall respond to your inquiry as soon as possible and will give all the information we can about the matter. Little hope, we think.

J. S., of Ohio.—There is a feature in your bridge that we have not particularly noticed in any other, yet it is difficult to tell about its novelty, as there is an endless variety in use. We should think the "Howe Bridge" covered the essential features in yours. \$2 received.

W. P., of N. J.—We could not have the engravings made for less than \$12. Please remit, and they will be attended to without delay.

J. F. M., of Phila.—The engravings of your patent will probably appear in our next.

L. A. S., of Pa.—You can sell only what you patent; the lever, however, could go with it as an improvement. The purchaser would not object to this. \$1 received.

P. H. W., of N. Y.—You will please to forward a rough sketch of your improvements, in order that we may see more clearly into the nature of them.

E. A. D., of La.—Your letter of the 20th ult. came safe and was answered by letter. The point stated was incorrect, and we advised you to abandon the idea of making an application.

H. A. L., of N. Y.—We were shown the drawings but did not examine the principle of the invention for the Feed. There are a number of centrifugal force pumps now in operation; Stiven's is the best of the kind; it is eccentric inside. We do not know what you mean by the "rotating plate;" it requires to be more minutely described.

J. K., of N. Y.—Your manuscript cannot be returned, because we do not know where it is. No request was made to send it back if it was found unsuitable. If we should keep all the papers sent us, we would soon have a room full.

A. B. N., of Pa.—You are secure unless the disclaimer spoils all that was considered valuable about the patent.

H. W. O., of Ct.—We have no drawings of Mr. Callaghan's Dredge Boat; it would doubtless interest many to see it illustrated in the Scientific American. The claim we can send you, if desirable.

V. H., of Me.—We examined the principle you refer to some two years since, and found it incorrect. No subsequent attempts have been made to revive it, and we presume none will be.

C. E., of N. C.—We do not think you could obtain a patent for your improvements. You will see, by reference to page 43 of Macfarlane's "History of Propellers," that Mr. Hill, of Woolwich, Eng., invented the same device.

R. A., of Md.—Ammonia is a transparent pungent gas, formed by the union of nitrogen and hydrogen, and named from the substance sal ammoniac, of which it constitutes the basis.

A. W. P., of Ohio.—Your case is progressing, and we shall hope to send the specification in a few days. B. N., of N. Y.—We hope the patent for your lifting apparatus will be issued in a few days.

Enquirer.—In the year 1849 a patent was granted for surrounding the piston rod, inside of the stuffing box with a piece of leather, vulcanized india rubber, or some other fit material, in the shape of an hour-glass without top or bottom. A communication is formed between the interior of the stuffing-box and a force pump, and fluid is pumped into the space between the inside of the box and the outside.

B. & K., of Va.—The law relating to patents, in Canada, is little understood by Americans, as it is but recently that such prerogative has been extended to the Governor, and we believe the privilege is only for residents. We are now in correspondence with a party in Canada, with a view of securing such patents for our citizens.

M. I., of N. Y.—To form a dipping needle, an axis is passed through a needle of the same shape as the compass needle; the terminations of the axes are conical, and they fit into small holes of the same shape, in two cross bars. The needle, before it is magnetized, must be made so as to lie perfectly horizontal when suspended between those bars.

H. G., of Geo.—We shall commence Vol. 7 of the Scientific American with 20,000 copies, and must rely upon our friends to circulate them. We are anticipating improvements which will enhance the interest of its columns very much. Your kind favors are duly appreciated.

J. F., of Pa.—We believe that it will be of great benefit to you to get an engraving published in our columns.

Money received on account of Patent Office business since April 29:—

S. A., of Pa., \$30; S. & P., of N. Y., \$20; E. B., of N. Y., \$30; A. W. D., of N. Y., \$20; D. E. S., of O., \$30; A. K., of N. Y., \$25; G. B. W., of Mass., \$25; F. & J. N., of L. I., \$10; T. H. D., of N. H., \$40; B. & B., of Vt., \$10; A. S. H., of N. Y., \$30.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since April 29:—

E. B., of N. Y.; G. B. W., of Mass.; H. B., of Ct.; A. W. D., of N. Y.; B. & B., of Vt.

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., 128 Fulton street, 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

PATENT BAND PULLEYS.—The subscriber

having obtained a patent for his improvements in the band pulley is desirous of disposing of rights to manufacture and use in the Northern and Western States. This improvement has been highly recommended by Southern planters and manufacturers who have purchased and used it during the past two years. Address, post-paid, JOHN SIMPSON, Decatur, De Kalb Co., Ga. 1am 3

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. Mapes, Newark, N. J. 34 4*

WOODWORTH'S PATENT PLANING MACHINES: 1851 TO 1856.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's machines. Persons holding licenses from the subscriber are protected by him against infringement of their rights. For rights in the unoccupied counties and towns of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 28 7eow*

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

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

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 1800 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*

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 preparing 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 17*

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

BOGARDUS'S CELEBRATED HORSE-POWER.—Cranks, balance wheels, pitmans or noddle-heads, stirrups, feed hands, saw gate slides and rods, wrag wheels, carriage cogs, dogs, gudgeons, mill bars, saw gummars, and Hotchkiss wheels and shafting for saw mills; spindles, bales, drivers, hoisting screw and bales, regulating screws, mill pecks, bushes, smut machines, shafting and gearing iron water wheels for flouring mills; fly or roll bars and plates, paper cutters, Kay's callendering apparatus for continuous sheets for paper mills; screws for lathes and presses, jack screws, wrought and cast iron shafting, pulleys and hangers, heavy forging, cotton gin gear, screw-bolts and nuts, slip gudgeons are manufactured at the Speedwell Iron Works, Morris Town, N. J. Office in New York, No. 9 Gold st., with Logan, Vail & Co. P. S. Belting and bolting cloths supplied to order. GEO. VAIL & CO. 28 lamf

TWO TIN PLATE AND SHEET IRON WORKERS.—ROY & WILCOX, Mattabessett Works, East Berlin Station, on the Middletown Railroad, manufacture all kinds of Tools and Machines of the best quality, both in material and workmanship. This establishment being the only one where both tools and machines are manufactured, superior inducements are offered to the trade; all work warranted, with fair use. Agents in most of the principal cities of the United States and Canada. Orders promptly attended to. F. ROYS, E. WILCOX, 7 lamly Berlin, Conn., Nov. 1, 1850.

CARD.—The undersigned beg leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers, and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubs) and Swiss Files and Tools, also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English style, which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBENMANN, Importer of Watchmakers' and Jewellers' Files and Tools, and manufacturer of Mathematical Instruments, 154 Fulton st. 29 3m*

DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteawan Company, having entered into an arrangement with the Patentee for the manufacture of the so-called Dick's Anti-Friction Press, are now prepared to execute orders for the following, to which this power is applicable, viz.—Boiler Punches, Boiler Plate Shears, Saw Gummars, 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; Mortice 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. 26tf

BAILEY'S SELF-CENTERING LATHE.—For turning Broom and other handles, swelled work, chair spindles, &c.; warranted to turn out twice the work of any other lathe known—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. FIRSSON, Civil Engineer, Office 5 Wall street, New York. 24tf

RAILROAD CAR MANUFACTORY.—TRACY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of Railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty and good taste, as well as strength and durability, we are determined our work shall be unsurpassed. JOHN R. TRACY, THOMAS J. FALES. 16tf

LAP-WELDED WROUGHT IRON TUBES for Tubular Boilers, from 1 1/4 to 7 inches in diameter. The only Tubes of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine, and other Steam Engine Boilers. THOS. PROSSER & SON, Patentees, 28 Platt st., New York. 16tf

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 Kaskin; 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. 23 3m*

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 300 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*

TO MACHINE SHOPS.—Received, this week, at Leonard's Machinery Depot, 109 Pearl, and 60 Beaver st., three superior Engine Lathes, 9 and 10 feet beds. 24 in. swing, screw feed; also a full assortment of Universal Chucks and Chucks for Planers. 33 2 Address P. A. LEONARD.

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

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