

TO CORRESPONDENTS.

J. W. B., of D. C.—If you look at page 108, Vol. 4, Sci. Am., you will see the description of a wheel like yours. We have seen the model. We do not, at the present time, think very favorably of its principle.

E. H., of N. Y.—We have made the required examination, and do not find anything to interfere with your device for measuring heights, distances, etc.

L. F. L., of N. H.—You could not obtain a patent for the arrangement you propose. It is a suggestion and not an invention of a patentable character.

G. W. B., of Wis.—You had better order the books mentioned in yours of the 12th ult., from the publishers direct.

F. B. H., of Ind.—It is difficult to obtain a patent on an apple-paring machine, as there are now a great variety. Is not yours substantially like J. Weed's, illustrated on page 84, Vol. 5, Sci. Am.? We send you a paper containing it. "Western Horticulturist," Cincinnati, is a good work for you.

J. C. S., of Ohio.—We have seen the same device applied to give a quick motion to a saw from a water wheel; we have no doubt, however, but it is new with you.

J. H., of Mass.—We do not know anything to remedy the evil of the pegs, and at the same time keep them hard. The liquor made from the chloride of lime bleaches, but it is not so good for the wood as the substance you use. You might try some experiments. You can get the stuff at any druggist's; make it up like lime water, steep the wood for a few hours, and then dry it.

J. G., of Ohio.—Your invention is a valuable one, we believe, and should be, for your interest, protected by a patent. It is new to us, and we believe it to be patentable.

J. A. E., of Tenn.—Your letter of the 25th May is received; the business will be duly executed.

T. D., of Ala.—We shall be happy to see and advise with Mr. Benjamin when he arrives.

J. C., of N. C.—We have carefully examined the sketch of your improved car wheel. You will find a claim in this number issued to D. R. Rall, which covers all the novelty involved in yours.

W. T. W., of Tenn.—We have your letter of the 26th ult., covering \$10. Your engraving shall appear early.

D. B. P., of Pa.—Yes; we consider Burke's patent blind hinge a good invention. We can give you no better description of the construction and operation than accompanied the engraving of it in No. 37. We presume if you will address the party whose advertisement appears in the advertising columns, you will receive an answer to your other inquiries.

V. E. R., of Ill.—We do not see anything patentable in the "Bark Mill." The sketch, however, is imperfect, and may not be fully understood. If you choose, we can examine it upon being furnished with a better drawing, described by letters of reference.

A. H., of Ill.—The business abroad is rapidly progressing, and will pass the seal soon, we expect.

S. P., of Vt.—A Circular Telegraph, to print Roman characters, is not new. See A. Vail's work on Telegraphs. The operation is too slow, and requires too much electro-magnetic power to operate. Your invention, however, is very creditable for the ingenuity displayed.

M. W., S., of Mass.—The papers we had sent before yours of the 5th inst. came to hand. The two names can be added by having the petition copied. We really see no chance for a patent on the pump: the method of communicating motion is well known for other purposes.

J. B. G., of Pa.—We have examined the sketch of Mr. Mark's implement, and think favorably both of its novelty and utility. Should he conclude to forward us a model, he will observe to make it as small as possible, say 12 inches long; it can be sent to us with the government fee by Express.

T. H. D., of N. H.—Your engraving will appear in the next number: we had not room for it in this without crowding our limits.

G. E. S., of Pa.—If you wish to get the full strength of the sumac, cut it when in the bud. The patent you refer to can be taken out here, although first patented in England. It is doubtful about the novelty of the invention on this side. In this number you will see a note about the inventor.

R. A. M., of Ct.—We saw the same invention in 1847, at the Worcester County Fair; it is, we believe, in use in the New England States.

H. C. T., of S. C.—We think the "Protector" is new and patentable, but whether it will answer the requirements, we cannot state. Experiment alone must decide this point; our opinion is favorable to it. We will notice it in a subsequent number. The cost of obtaining a patent would be from \$50 to \$60, in full.

O. D. M., of N. Y.—Saxony blue is an intense color, imparted by dyeing with sulphate of indigo.

D. E., of Geo.—Certainly, and we shall expect to arrange all the business in time. His patent will soon issue.

J. D., of Ill.—The "stein pappe," or stone paste is more solid than papier mache, harder, and more durable and impervious to water. It is capable of being moulded into any form, and of being colored, silvered, or gilt. Many casts from antique sculptures have been made of it for decorative purposes.

S. E., of La.—We shall give the matter a candid investigation, and speak of it in terms due the cause.

G. E., of Boston.—The frequent reference to the transactions of the Society of Arts does not locate it here, as we have no such society. It is located in London, and is a useful society.

M. G., of Va.—You should have an engraving of your invention published in the Scientific American. It would benefit you, we think.

A. E. F., of Mass.—Two polarities is a term expressive of two antagonistic energies, each of which is similar and attracts that which is opposite to itself. Thus the two north or two south poles of two magnetic needles mutually repel each other, but the north pole of one needle, and the south pole of another, mutually attract each other.

A. J., of Ohio—Guano consists of urate of ammonia and other ammoniacal salts; it appears to consist of the excrements of sea-fowl, and is obtained principally from the coast of South America.

A. V. B., of Tenn.—The Theodolite is an instrument for measuring horizontal angles contained between lines supposed to be drawn from any point to two distant objects; it is an old invention, but has been somewhat improved within a few years.

A. & C., of Baltimore.—The case came duly to hand and the draft for \$500, which was cashed on presentation. We shall push the matter to its final issue as rapidly as possible. We think Mr. C. would do well to come on a few days, although we can get along without him.

A. M., of Pa.—The illustration of Usher's Steam Plow appeared in the London News only a few weeks ago, hence we conclude that it is a recent invention. If you can ante-date the publication you can hold a patent for it here: our object in presenting it was to show what had been done; now, whether it will ever be practicable remains to be determined by experiments. We doubt it some.

Money received on account of Patent Office business on the week ending June 5:

D. H., of Va., \$55; W. H. R., of Ct., \$30; R. F., of N. Y., \$20; D. P. G., of Ind., \$30; O. W. S., of Ct., \$30; J. W. H., of N. Y., \$10; J. J. H., of N. Y., \$10; W. S. H., of N. Y., \$20; C. M. M., of Pa., \$25; A. G. H., of N. H., \$30; A. B., of O., \$30; A. M. G., of S. C., \$5; N. W., of Mass., \$35; E. M., of N. Y., \$30; S. & S., of N. Y., \$27.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending June 5:

D. L. of Vt.; H. B., of N. Y.; W. S. H., of N. Y.; A. B., of O.; S. & S., of N. Y.; E. M., of N. Y.; N. W., of Mass.; A. M. G., of S. C.; Z. H., of O. (2).

An Important Paragraph.

Whenever our friends order numbers they have missed—we always send them if we have them on hand. We make this statement to save time and trouble, to which we are subjected in replying when the numbers called for cannot be supplied.

The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.

Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

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 but 4 numbers, price, in sheets, \$1.
Of Volume 6, all; price in sheets, \$2; bound, \$2.75
Of Vol. 7, all back numbers at subscription price.

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.

Patent Laws, and Guide to Inventors.

We publish, and have for sale, the Patent Laws of the United States. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. Price 12-2 cts. per copy.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Line count and Price. 4 lines for each insertion - 50 cts. 8 " " " - \$1.00. 12 " " " - \$1.50. 16 " " " - \$2.00.

Advertisements exceeding 16 lines cannot be admitted; neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before inserting.

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 the 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. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

MARYLAND INSTITUTE FAIR.—The Board of Managers of this Institute will hold the Fifth Annual Exhibition in the Grand Saloon of the Institute Building, in the city of Baltimore, commencing on the 4th day of October next. The great facility thus afforded for a splendid display of American Manufactures, they hope, will be a sufficient inducement for the Manufacturers, Mechanics, Artists, Inventors, and others throughout the United States, to contribute such specimens of their industry, skill, and ingenuity, as shall be alike honorable and creditable to the mechanical genius and refined taste of the country. The Hall will be open for the reception of goods on Monday the 27th Sept. next, from which time to Thursday night, Sept. 30, articles intended for competition and premium must be deposited. The balance of the week will be devoted to the reception of articles intended for exhibition only, free of charge. After which time depositors will be subject to a charge of 50 cents to \$1. On Monday, Oct. 4, at 7 o'clock, P. M., the Exhibition will be open for the reception of visitors. Circulars containing the regulations and arrangements established by the Standing Committee on Exhibitions, can be had by addressing (post-paid) JOHN S. SELBY, Actuary of the Maryland Institute, by whom any information required will be promptly given. 39 7

MACHINERY IN THE GREAT EXHIBITION.—22 Copperplate Engravings of the following subjects, and numerous Woodcuts, are given in the Volume of the ARTIZAN for 1851, price \$3.50: Retort Settings (Croll's Patent) and Wet Lime Purifiers, for the Great Central Gas Works; Comparison of recent Improvement in Permanent Ways; Ryder's Forging Machine; Brown's Blooming Machine; Curvilinear Planing and Shaping Machine; Ericsson's Caloric Engine; Hydraulic Mine Lifting Machinery; Pumping Engine, by M. Mazeline; Samuel's Locomotive Feed Engine; Galloway's Patent Smoke-Consuming Water-Tube Boilers and Engines; Ship-ton's Pendulous Engine; Details of the Emperor of Russia's Yacht "Peterhoff," by Messrs. Rennie, and of the Prussian War Steamer "Nix," armed on Mr. Scott Russell's Patent System; Cayson's Direct Acting Engines for the Screw; Long's Steering Apparatus; Details of a Swedish Ornamental Villa; Wiggington's Model Dwellings, ventilated on the best principle; large sheet of Designs for Architectural Ornaments in Fire-clay; Result of Experiments of the Commission for the Strength of Iron.

The four preceding volumes may also be had, containing an immense amount of practical information on Civil and Mechanical Engineering, Steam Navigation, Shipbuilding, &c. The Artizan may be had of any bookseller in the United States, by order, or any person forwarding an order for 16 shillings sterling (\$3.90) on any London house, will have it sent for a year by post. Address W. K. WHITEHEAD, Consulting Engineer, office of the Artizan, Journal, 69 Cornhill, London. 37 4eow

PATENT CAR AXLE LATHES.—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 lbs., price \$600. I have also for sale my patent engine screw lathes, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1500 lbs., price \$225. The above lathes warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 39 26*

PORTER'S PATENT GRADUATING VALVE.—PORTER TUYER.—Illustrated in this paper Sept. 6, 1851, gives a sure, quick, and clean heat, and is warranted to save full 25 cts. per day to each fire. Two sizes manufactured. Price \$6 to \$8. For sale, wholesale and retail, at No. 9 Gold st. W. J. & J. H. BURNETT. 38 4*

NEWELL'S PARAUTOPTIC BANK LOCK.—These Locks, which have been tested by the most skillful mechanics of Europe and this country, still remain invulnerable to their combined efforts, proving its superiority over all others. For sale by DAY & NEWELL, 589 Broadway, N. Y. 38 3*

TO CARPENTERS AND DEALERS IN PATENT RIGHTS.—The whole right and title to the Patent Blind and Shutter Fastener, which was illustrated in No. 37 Vol. 7 of the Scientific American, will be sold cheap to a cash customer, or the owner of the patent will sell single States (not in smaller quantities) if desired. The invention is a good one; the claims are broad, and it is not an infringement of any existing patent, as decided by parties who have investigated the matter thoroughly. For particulars concerning the purchase of rights, etc., address "DESALX," box 773, P. O., New York City. 38 3*

NOTICE TO IRON FOUNDERS.—The advertiser wishes the situation of "Charge of a Foundry," having had long experience at it, and several years' experience in charge of a machine shop doing new work and repairs. For reference, address A. T. Pierce, Esq., Norwich, Ct., post-paid. 36 4*

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.

PAINTS, &c. &c.—American Atomic Drier, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., 25tf Painters and Chemists.

CHILD'S & TAINTER, Worcester Mass., Builders of Daniel's Patent Planing Machines, either with or without modern improvements. This planer is the greatest labor-saving Planing Machine ever applied to both square timber and boards. Read's feed motion perfectly practical for all purposes without extra charge gives the advantage of planing when the carriage is moving both forward and back. The carriage may be run rapid or slow, either way; is drawn from its centre underneath, the pinion working above the rack, secure from shavings, and no belts or gears under the machine. Built heavy and substantial at reasonable notice. 37 3*

DRAUGHT BOARDS, PATENT.—Which dispense mostly with the use of Case Instruments, which are best and tedious. The Board combines the use of several valuable instruments. \$10, complete. Sent by Express, Direct (post-paid) to H. W. CHAMBERLIN, Pittsfield, Mass. 37 2*

BEARDSLEE'S PATENT PLANING MACHINE, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the above-named foundry—or at his residence No. 764 Broadway, Albany. GEO. W. BEARDSLEE. 23tf

MACHINERY.—S. C. HILLS, No. 12 Platt-st. N. Y. dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Kase's, Von Schmidt's and other Pumps; Johnson's Stangle Machines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Mortising and Tenoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 26 tf

WOOD'S IMPROVED SHINGLE MACHINE.—Patented January 8th 1850, is without doubt the most valuable improvement ever made in this branch of labor-saving machinery. It has been thoroughly tested upon all kinds of timber and so great was the favor with which this machine was held at the last Fair of the American Institute that an unbought premium was awarded to it in preference to any other on exhibition. Persons wishing for rights can address (post-paid) JAMES D. JOHNSON, Bridgeport, Ct.; or WM. WOOD, Westport, Ct., All letters will be promptly attended to. 22tf

THE EXCELSIOR Sand and Emery Papers.—Tare offered as new and superior articles, being manufactured by an improved process; the paper is made from the best Manila hemp, and consequently is very strong and lasting; the grit is of the sharpest and most enduring kind, and is firmly attached to the paper with a remarkable evenness of surface; their fineness from ridges, stripes, and other imperfections, recommend them to the notice of consumers. These papers have been used by many of our first mechanics, and are pronounced superior to all others. Every sheet is stamped WM. B. PARSONS, and warranted. Samples furnished at the office, No. 284 Pearl street, New York. WM. B. PARSONS, 14 6m*

CHARLES F. MANN, FULTON IRON WORKS, Troy, N. Y.—The subscriber builds Steam Engines and Boilers of various patterns and sizes, from three horse power upward; also, his Portable Steam Engine and Boiler combined, occupying little space, economical in fuel, safe, and easily managed; Double Action Lift and Force Pumps; Fixtures and Apparatus for Steam or Water; Tools for Machine Shops; Shafting and Pulleys for Factories. Brass Castings and Machinery made to order at short notice. Steam engines furnished cheaper than can be had elsewhere, of the same quality. 30tf

JOHN W. GRIFFITHS.—Ship Builder and Marine Architect, 658 Fourth st., N. Y., furnishes models and draughts of all description of vessels, with the computation of stability, capacity, displacement, and necessary amount of impulsion. Propelling power located and proportionally adapted to the form of the vessel, whether sailing or steaming. Mr. G. also superintends the construction of vessels, and may be consulted upon all subjects pertaining to the various departments of the science or practice of ship building. Draughts forwarded by letter to all parts of the world, and to any desired scale; all letters must be post-paid. 27 18*

1852 TO 1856.—WOODWORTH'S PATENT Planing, Tonguing, Grooving, Rabbeting, and Moulding Machines.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price from \$150 to \$760. For rights in the unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 26tf

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers. Also a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 27tf P. A. LEONARD.

TO BUILDERS AND WORKERS IN WOOD.—We are selling a very simple durable, and effective Mortising Machine for \$20, boxed ready for shipment. We have sold a large number within the last year, and they have given satisfaction. We furnish three chisels and a lever to operate them. Address MUNN & CO.

MANUFACTURE OF PATENT WIRE Ropes and Cables—for inclined planes, suspension bridges, standing rigging, mines, cranes, derrick, tilters &c.; by JOHN A. ROEBLING; Civil Engineer—Trenton N. J. 47 1y*

A. B. ELY, Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13tf

TRACY & FALES, RAILROAD CAR MANUFACTORY.—Grove Works, Hartford, Conn. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 26tf

LOGAN VAIL & CO., No. 9 Gold street, New York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11 1y

NEW HAVEN MANUFACTURING COMPANY, Tool Builders, New Haven, Conn., (successors to Scranton & Parshey) have now on hand \$25,000 worth of Machinists' Tools, consisting of power planers, to plane from 5 to 12 feet; slide lathes from 6 to 18 feet long; 3 size hand lathes, with or without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; drill presses, index plates, bolt cutters, and 3 size slide rests. The Co. are also manufacturing steam engines. All of the above tools are of the best quality, and are for sale at 25 per cent. less than any other tools in the market. Cuts and list of prices can be had by addressing as above, post-paid. Warehouse No. 12 Platt st., New York, S. C. HILLS, Agent N. H. Man's Co. 25tf