

TO CORRESPONDENTS.

S. S. L., of Ky.—We think the tree you refer to must be the East Indian palm or toddy tree. The liquor is obtained by cutting off the leaves of the branches, and collecting the juice in suitable vessels, as it exudes from the wound.

T. C. N., of Ga.—Sutton & Co., of Kensington, Philadelphia, manufacture Parker's wheel. The first patent has expired.

M. N. F., of Baltimore.—We are not acquainted with any work respecting the construction of toothed wheels, as sought by you.

G. D. J., of Vt.—Powder has oftentimes been proposed as a substitute for steam; it cannot be so used, either with the safety or economy of steam.

D. R., of N. C.—Apply to T. P. Shaffner, Esq., Washington, D. C., and he will give you the necessary information about the cost of 100 miles of telegraph line.

L. F. M., of N. Y.—We have been given to understand that no substance will answer for a good preservative in saies, unless it contains a great deal of water; plaster of Paris retains this to a greater degree than almost anything else.

D. T. S., of N. Y.—Both your plans are old; the press is in common use; it is Hoe's patent—print's the fastest of any in the world.

S. M., of Ind.—We discover nothing patentable in your mule trap.

J. R. P., of Ohio—Almost every watchmaker possesses the requisite instrument for cutting brass wheels such as you describe. You can have them made in your city.

A. J. B., of Mass.—The most economical method of obtaining a noon-mark for those who live in the mountains, is a compass.

A. L., of Pa.—\$3 received; all right; we think there would be little use in prosecuting your case further.

C. C. A.—The residence of Mr. Junius Judson is at Syracuse, N. Y., we believe.

H. L. C., of Mass.—We do not remember the brick machine you speak of.

L. R., of C. W.—We don't know where you can find the filtering matter.

J. L. J., of Pa.—Write to Mr. Mace; he will give you all the information. \$2 received; all right.

C. T. M., of S. C.—Exhausting the air from within a case would make little difference in the temperature. \$1 received.

A. F., of Mass.—We are not acquainted with the gentleman you name.

A. P., of N. J.—A cylinder revolved by a crank for roasting coffee, placed in the stove oven, contains no feature of a patentable character.

L. M. H., of Mich.—Your alleged improvement in rotary steam engines, appears to possess no novelty of a patentable character, therefore we cannot advise you to make an application for it.

H. B. N., of Pa.—Charcoal dust and plaster of Paris mixed together, are the best substances for preserving night soil, and converting it into a portable fertilizer. These two substances will absorb the ammonia, and remove the offensive odor. Apply in quantities sufficient to do this.

S. B. W., of Ohio—In Ohio tin roofs may last for a great number of years without painting, but not in this latitude, because the sea breezes soon rust it. The best paint is red lead, put on when the roof is about two months on. Give a thin coat first; let it dry, and then give a second thicker coat.

S. S., of Ill.—The truth is there is not a real good work on architecture of the kind you want. Anderson's Villa Architecture, by G. P. Putnam, this city, is a good work, but is as high as \$18.

G. H., of—There is nothing new or patentable in your way of making cut nails.

S. N., of Ind.—You do not seem to have considered the question in a proper manner. You say, "If it were necessary that the principal part of the surface on which the wind acted should move against the wind, then, indeed, would the problem be impossible." Well, sir, it must be so, for if the vessel is moved against the wind, is not the surface against which the wind acts moved against it.

R. S. N., of Troy—Excepting in the method of reversing your paddles, all the rest of the plan is old. They may answer a good purpose for canal propelling, but is a cent, wheel not as good.

R. W., of Cincinnati—The best plan for you to pursue is to correspond with Mr. D. W. yourself.

F. Z., & Co., of Ill.—The plumb and level indicator described by you does not possess any patentable novelty. In Vol. 1, SCIENTIFIC AMERICAN, you can find an engraving of one substantially like it. There is no chance for a patent on it.

A. G. G., of La.—Your valve might do very well; the difficulty, however, is not in the valve, but in the governor. A common governor will not operate unless its spindle remains always vertical.

F. G. W., of Mass.—The "Archimedean Plow," invented in England, consists of a roller armed with teeth or spikes for tearing up the soil. We have not much opinion of its utility, except when used in light soils. It would have no effect upon tough prairie sward.

H. A. S., of Vt.—The shell which you describe appears to be new, but we cannot say how far it would exceed those in present use. Its effectiveness can only be determined by experiment.

J. C., of Tenn.—Yours has been received.

E. L., of—Yours will appear next week.

M. P., of—Yours will be answered next week. You do not seem to be aware that we pointed out the errors of Prof. A. two years ago.

G. W. S., of N. H.—We have entered your name for one year's subscription, as we have no back numbers to send you containing the pumps mentioned.

S. M. L., of Ohio—We are much obliged for your very good opinion of our paper. Such a straw cutter as you describe contains no new feature. We have seen them constructed in the same manner.

J. R., of Mich.—We do not think there is the slightest chance for a patent on your rotary engine. In its general features it is similar to many others which have been sent us from time to time. It could not in our opinion be made to operate with any degree of satisfaction.

A. R., of Ind.—Congress redeemed its character from many supposed sins by rejecting "Colt's Patent Extension Bill," that abominable patent bill, and one or two other acts of less magnitude. We therefore conclude that all attempts to procure an extension of the Woodworth Patent will prove abortive. No action was taken upon it, and we presume that its owners will have sense enough not to press it again.

Money received at the SCIENTIFIC AMERICAN on account of Patent Office business for the week ending Saturday, March 24:—

G. A. M., of N. Y., \$55; I. F. W., of N. Y., \$30; S. G. P., of Mass., \$30; M. T. K., of Pa., \$70; G. A. B., of Ill., \$55; A. S., of Pa., \$30; U. H. of Ct., \$30; D. & J. R. P., of Pa., \$25; H. S., of N. Y., \$30; T. S., of N. J., \$30; H. A. R., of N. Y., \$30; J. W. T., of Tenn., \$25; R. J. M., of N. Y., \$30; O. W. S., of Ct., \$55; W. G., of N. J., \$25; R. D., of Pa., \$15; J. T., of N. Y., \$25; L. S. E., of N. Y., \$30; D. L. B., of Miss., \$35; H. M., of Ct., \$100; E. G. H., of N. J., \$30; W. D., of N. Y., \$30; S. H., of N. Y., \$30; J. S., of O., \$30; E. P. M., of Mass., \$25; S. S. T., of Pa., \$20; G. R., of Mass., \$30; J. S., of N. Y., \$30; C. & D., of Va., \$25; H. T., of O., \$20; J. W., of Ga., \$50; D. A. H., of N. Y., \$25; C. & L., of O., \$25; J. M., Jr., of N. Y., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 24:—

M. T. K., of Pa., (2 cases); S. G. P., of Mass.; A. W. P., of Pa.; W. G., of N. J.; D. & J. R. P., of Pa.; W. H., of Pa.; R. J. M., of N. Y., (2 cases); J. W. T., of Tenn.; E. P. M., of Mass.; J. T., of N. Y.; H. T., of O.; C. & L., of Ohio; C. & D., of Va.; C. R., of O.; J. M. Jr., of N. Y.; R. D., of Pa.; W. D., of Pa.

Important Items.

PATENT LAWS, AND GUIDE TO INVENTORS—Congress having adjourned without enacting any new laws pertaining to applications for patents, we have issued a new edition of the old laws, which may be had at our counter or sent by mail. This pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office. Price 12 1/2 cents per copy.

BACK NUMBERS AND VOLUMES—We have the following number and volumes of the SCIENTIFIC AMERICAN, which we can supply at the annexed prices:—Of Volume 5, forty numbers; price in sheets, \$1; bound, \$1.75. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Volume 7, all; price in sheets, \$2; bound, \$2.75. Of Volume 8, none complete, but about 30 numbers in sheets, which will be sold at 50 cents per set. Of Volume 9, complete in sheets, \$2; bound, \$2.75. Of Vol. 10, all the back numbers, at the subscription price.

PATENT CLAIMS—Persons desiring the claim 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 \$1 for fees for copying.

Terms of Advertising.

Table with 3 columns: Lines for each insertion, Price per line, Total price. 4 lines for each insertion, \$1.00; 8 lines, \$2.00; 12 lines, \$3.00; 16 lines, \$4.00.

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.—MESSRS. MUNN & CO., 123 Fulton street, New York, Publishers and Proprietors of the SCIENTIFIC AMERICAN, having for many years been extensively engaged in procuring Letters Patents for new mechanical and chemical inventions, offer their services upon the most reasonable terms. Patents promptly secured in the United States, Great Britain, France, Belgium, Holland, Austria, Russia, Spain, and in all countries where they are granted. All business entrusted to their charge is strictly confidential. Private consultations respecting the patentability of inventions are held free of charge, with inventors, at their office, from 9 A. M. until 4 P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New Orleans is more accessible than any other city in our country. Circulars of information will be sent free of postage to anyone wishing to learn the preliminary steps towards making an application. In addition to the advantages which the long experience and great success of our firm in obtaining patent present to inventors, they are informed that all inventions patented through our establishment, are noticed, at the proper time, in the SCIENTIFIC AMERICAN. This paper is read by not less than 100,000 persons every week, and enjoys a very wide spread and substantial influence. Parties intrusting their business in our hands can rely upon prompt and faithful attention.—Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S. go through our agency.

The offices of Messrs. Munn & Co.'s American and Foreign Patent Agency are at 123 Fulton Street, New York; London, No. 32 Essex St., Strand; Paris, No. 23 Boulevard St. Martin; Brussels, No. 6 Rue D'Or.

UNITED STATES PATENT OFFICE.

Washington, March 8, 1855. ON THE PETITION of James Brett, of Matteawan, New York, praying for the extension of a patent granted to him in the 3d July, 1841, for an improvement in Key Wrenches for seven years from the expiration of said patent, which takes place on the 10th day of July, 1855—

It is ordered that the said petition be heard at the Patent Office, on Monday, the 25th of June next, at 12 o'clock M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

The testimony in the case will be closed on the 15th of June; depositions, and other papers relied upon as testimony, must be filed in the office on or before the morning of that day; the arguments, if any, within ten days thereafter.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Pa.; Scientific American, New York, and Post, Boston, Mass., once a week for three successive weeks previous to the 25th day of June next, the day of hearing.

CHARLES MASON, Commissioner of Patents. P. S.—Editors of the above papers will please copy and send their bills to the Patent Office, with a paper containing this notice.

OPTICAL, MATHEMATICAL, Mathematical, and Philosophical Instruments.—Our Pamphlet Catalogue, with prices affixed, containing numerous well executed illustrations is furnished gratis on application, and sent by mail, free of charge, to all parts of the United States and Canada.

McALLISTER & BRO., 294 Optician, 194 Chestnut street, Philadelphia.

1855.—WOODWORTH'S PATENT Planing, Tonguing, and Grooving Machines.—These subscribers is constantly manufacturing, and has now for sale the largest and best assortment of these unrivalled machines to be found in the United States. Prices from \$75 to \$1400. Rights for sale in all the unoccupied territory of New York and Northern Pennsylvania, JOHN GIBSON, Planing Mills, Albany, N. Y.

1855.—D. W. WHITING, Forwarding and Commission Merchant, Buffalo, N. Y.—Particular attention given to manufacturers' goods and wares, and shipped at the lowest rates by any line, as directed. Mark plainly, "care D. W. WHITING, Buffalo, N. Y."

THERMOPHORE AIR FURNACE MANUFACTURERS.—The Committee of the Mechanics Institute, Montreal, will receive tenders for the construction of a furnace for warming the new Mechanics Hall in that place. The dimensions are 80 feet long by 60 feet wide, and thirty feet in height. The person who may be selected will be required to guarantee the efficient working of his apparatus. Address HENRY LYMAN, Montreal, C. E.

IMPROVED MACHINE FOR STUFFING COLLARS.—Patented March 6, 1855.—WM. L. WHITTAKER, Cumberland, Maryland, Patentee. This machine is superior to all others ever invented for the purpose. It stuffs a collar from both ends at the same time, and uses both long and short straw, doing quicker and better work than can be done by hand. For particulars address the patentee, post-paid, as above.

SHIPS' BLOCKS.—Platt's Patent, May 18, 1852, a S much admired and durable block. For sale by C. H. Platt, 45 West st., New York City.

STEAM ENGINES.—1 Horizontal, 15x36 inch cylinder; 2 ditto 28x36; 1 ditto 36x30, made by the Matheawan Co., in their superior manner, for the best Bardsley's carriage shop, 76 Third-seventh st., N. Y., or A. S. ACKERMAN, Matteawan, N. Y.

JAMES O. MORSE & CO., 79 John street, New York, dealers in all descriptions of pipes for steam, gas, and water, and manufacturers of every variety of fittings for the same, together with improved valves, cocks, oil cups, whistles, &c. steam pumps, gages, boilers, and boiler fires. Building warmed by steam or hot water, gas apparatus for towns, factories, and private dwellings.

THE GREAT PARIS EXHIBITION, 1855.—MESSRS. GARDISSAL & CO., No. 44 Rue de Marais.—Have the pleasure to announce to the manufacturers and artisans of the United States that they have opened an office at the above named place, for the purpose of taking charge of goods and machinery, and superintending all requisite details for the Great French Exhibition, effecting sales of goods, machinery, patents, &c. They will also attend personally to the purchase of any article of French manufacture, useful or ornamental, with care, and at a low price. MESSRS. GARDISSAL & CO. are also publishers of THE INVENTION, a monthly journal devoted to the ARTS, SCIENCE, and MECHANICS, and are desirous to publish in its columns engravings of American inventions patented in France, and also such machines as are placed on exhibition.—They offer this excellent facility upon such terms as will meet the favor of all. Patentees who desire to sell their French patents, can consult with Messrs. Gardissal & Co., and employ their agency for that purpose. They would also state, that it will be of the utmost importance to American exhibitors that their articles should be carefully attended to, and their advantages explained during the Exhibition. This will conduce to their success, and tend very much towards sustaining the well-earned reputation of American genius for useful and practical inventions. Messrs. Gardissal & Co. refer by permission to Messrs. Munn & Co., Scientific American Office, New York. S. H. Wales Esq., New York State Commissioner to the French Exhibition.

STATIONARY STEAM ENGINES.—The subscribers are now prepared to furnish on short notice, Horizontal Engines, on iron bed frames, strong and substantial, plain or highly finished, from 6 to 100 horse power, with or without pumps, boilers, &c. warranted to give satisfaction. Also shafting and mill work of all kinds, and the various sizes (double and single) of Wells & Co.'s patent circular saw mills. Sash and blind machinery made to order. W. E. HAYES & CO., Northampton, Hampshire Co., Mass.

ANDREWS & JESUP.—Commission Merchants, Cotton and Woolen Machinery, Steam Engines, Machinists Tools, Belting, &c. Importers and Dealers in Manufacturer's Articles, No. 67 Pine st., N. Y.

MACHINERY.—S. C. HILLS, No. 12 Platt st., N. Y. dealer in Steam Engines, Boilers, Planers, Lathes, Chucks Drills, Pumps, Mortising, Tenoning, and Sash Machines Woodworth's and Daniel's Planers; Dick's Punches, Presses and Shears; Cob and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belting, Oil, &c.

IMPROVED PORTABLE CIRCULAR Saw-mills, Manufactured by W. HERRICK, near the Depot, Northampton, Mass. N. B. Saw Mandrills, Saws, improved Saw-sets and Upsaws furnished, and warranted. Orders filled for any part of the United States.

SMITH'S WATER-TUYERS.—Prosser's Patent. These Tuyers are made of wrought-iron, and are warranted not to crack by the most intense heat. Also Water-backs and Tables, for kitchen ranges hotels, and restaurants, &c., requiring a constant supply of hot water. THOS. PROSSER & SON, 28 Platt st., New York.

HALL & SON'S FIRE BRICK WORKS, Perth Amboy, New Jersey.—A large stock of the best No. 1 Fire Brick constantly on hand. Vessels of any draft, can load at any stage of the tide and season of the year. Orders promptly executed.

MANUFACTURERS and Business Men generally, will find the COMMERCIAL REGISTER a most valuable Paper. It is a Monthly Journal of the largest kind, each number contains reading matter equal to a volume of over 300 pages. The Merchant and Manufacturer, the Mechanic, Farmer, and every class of Tradesmen, will find it an invaluable Registry of a great amount and variety of information and entertaining items—more than has ever before been brought into a single publication. Subscription price, for one copy, one year, 50 cts., three copies, \$1. Specimen copies, containing a list of splendid Premiums, (for single subscriptions and clubs,) varying in value from 25 cts. to \$3, will be forwarded free by addressing, post-paid, F. WOODS & CO., Publishers, 16 Beekman street, New York.

STAVE DRESSER and JOINER.—For tight work decidedly the best and cheapest in use. Machines can be seen in operation at SHAW & KIBBES, Shook Manufacturing, Buffalo, N. Y., and models may be seen at the office of the agent, JAMES S. POLHEMUS, 117 Pearl street, New York, to whom, or to the patentees, H. & L. B. BENSON, Jackson, Susquehanna Co., Pa., any communications may be addressed.

JOHN PARSHLEY—Nos. 5 and 7 Howard street, New Haven, Conn., is now ready to furnish at short notice, Engine Lathes for shafting of 2 1/2 inches swing, 16, 18, and 20 feet beds, 12 1/2, 14 1/2, and 16 1/2 feet between centers; also Engine Lathes of 38 inch swing, 14, 17, 20 and 25 feet beds, and 5, 12, 15, and 20 feet between centers. Circulars with cuts and all required information can be had by addressing as above, post-paid.

TURBINE WATER WHEELS.—The Ames Manufacturing Company, Chicopee, Mass.—After a series of experiments for several years, and the adoption of all the modern improvements, including the patents of Uriah A. Boyden, have succeeded in perfecting the Turbine Water Wheel so that they can confidently offer to the public the best wheel now in use, particularly where great economy of water may be desirable. These Wheels have been adopted in many of our large cotton factories and iron works where large and uniform power is necessary, and we are confident they will give satisfaction to any who may wish to avail themselves of the full benefits of their water power. Cotton machinery of all kinds, shafting and machinists tools, are furnished on reasonable terms by Ames Manufacturing Co., Chicopee, Mass. Any information will be furnished on application to JAMES T. AMES, Agent.

THE NEW YORK DAILY SUN—Read by upwards of Two Hundred Thousand persons daily, and the best advertising medium in the city, is mailed to Country Subscribers at \$4 per year, or \$1 per quarter payable in advance. Postage in the State, 75 cents per year; out of the State \$1.50 per year, payable in advance. MOSES S. BEACH, Publisher, Corner of Nassau and Fulton streets, N. Y.

TECHNICAL DICTIONARY.—In the English, French, and German Languages; by Messrs. Tolhausen and Gardissal, Civil Engineers, Ready (first part) French, English, German, price \$1.50; (second part) English, French, German, price \$1.50. These volumes are designed for the general use of Engineers, Artists, Manufacturers, Foremen, Artisans, in short, of all those who, in some way or other are concerned in Arts and Manufactures. The present work is the key through which the foreign reader may penetrate into a language which he may know but imperfectly; it is the instantaneous translator of the corresponding technical term, or its equivalent, in the three great industrial languages. For sale at this office.

WEALTHY CITIZENS OF NEW YORK.—The Twelfth Edition of "The Wealth and Biography of the Wealthy Citizens of the City of New York," is now for sale at the Sun Office, corner of Fulton and Nassau streets; price 25 cents. It is a handsome book of 80 pages, containing the names of more than 1000 persons estimated to be worth \$100,000 or upwards, and also interesting biographical sketches in which the origin and mode of accumulating some 500 of these large fortunes is traced.

FOR SALE.—A complete set of the Scientific American (minus Vol. 1 only) in good condition neatly bound, may be had at this office. This is the only set that has been offered for sale for many months. The set is comprised of eight volumes.

THE NEW YORK WEEKLY SUN is now sent to subscribers at the following very low rates, payable in advance.—One copy, 3 months, 25 cents; 6 mos., 50 cts.; 1 year, 15 cts.; 18 months, \$1; 3 copies, 1 year, \$2; 8 copies, 15 cts.; 12 copies, \$3; 25 copies, \$5. The postage within the State is only 13 cents a year—out of the State 20 cents a year. No traveling agents are employed. Specimen copies sent gratis. All letters should be post paid and directed to MOSES S. BEACH, Sun Office, New York.

NEW HAVEN MANUFACTURING COMPANY.—Machinists' Tools. 65 Iron planers of all sizes; 350 lathe and Hand Lathes, all sizes; 50 Upright and Horizontal Drills; 25 Bolt Cutters; 10 Gear Cutters; all kinds and sizes of Chucks, Slide Rests, Hand Drills, &c. These tools are of superior quality, and as they are built by the quantity, can be afforded and will be sold at low rates. For cuts giving full description and prices, address New Haven Manufacturing Co., New Haven, Conn.

ELECTRO-MAGNETIC MACHINES.—Telegraph Registers, Receiving Magnets and keys manufactured and for sale at No. 35 South Seventh street, Philadelphia, by W. C. & J. NEFF.

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STAVE AND BARREL MACHINERY.—Hutchinson's Patent. This machinery which received the highest award at the Crystal Palace, is now in daily operation there. Staves, heading, &c., prepared by it are worth to the cooper 20 to 40 per cent. more than when finished in any other way. Special attention is invited to the improved Stave Joiner. Apply to C. B. HUTCHINSON & CO., Crystal Palace, or Auburn, N. Y.

PATENT DRIERS.—Zinc Driers, Graining Colors, Stove Polish, Gold Size, &c., 114 John street, New York. QUARTERMAN & SON, Manufacturers.

NORCROSS ROTARY PLANING MACHINE.—The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross of date Feb. 15, 1850, for a Rotary Planing Machine for Planing Boards and Planks, is not an infringement of the Woodworth Patent. Rights to use N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, 205 Broadway, New York; Office for sale of rights at 208 Broadway, New York; Boston, 27 State street, and Lowell, Mass.

A. B. ELY, Counselor at Law, 63 Washington st., Boston, will give particular attention to Patent Cases. Refers to Messrs. Munn & Co., Scientific American.

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NORTHVILLE MACHINE WORKS.—Manufactory of Machinists Tools, consisting of Engine Lathes, Power Planers, Hand Lathes, Engine Lathes for turning chair stuff, all of the most improved patterns and quality of workmanship. Worcester, Northville, Mass. August 1854. TAFT & GLEASON.