

TO CORRESPONDENTS.

K. L., of Mass.—Were we to publish your question we should be smothered with parchment: we think your improvement of the dissected map is new and patentable; it could be molded of a composition of gutta percha and whitening. Your subscription expires with No. 44.

D. L., of N. J.—Are you sure that a windmill will propel a vessel directly against the wind? Have you ever seen one do this?

C. J. H., of N. Y.—We cannot tell you how to join your broken vulcanized india rubber valve firmly; if it were mere rubber, heat would cement it. Two ounces muriate of ammonia to one hundred cubic feet of water, would be sufficient; use oak saw dust in very small quantities, and in all likelihood scale will be prevented and no harm done.

E. J. C., of Miss.—If you use wood, get a large common box stove for the church—the larger the better; if coal, get a large circular heater, about five feet high, made with Russian sheet-iron outside, cast-iron sole, and well lined with fire brick: we cannot give you advice about the best cooking stove. The pulpit and seats of light oak graining, look well and last for years. You must try and manufacture your own shoes: those who send you bad ones do not deserve to be dealt with any longer; we have the same trouble here.

J. C., of N. Y.—Use fine emery and tripoli for polishing lenses; fine whitening is also employed. You must acquire the proper motion by practice.

J. S., of Ill.—Your alleged improvement in rotary steam engines has long since been anticipated, and there is now not the slightest chance for a patent; besides, the invention is worthless.

G. W. Z., of Ohio—The model of your boot crimp has come to hand.

J. A. W., of Iowa—Your seed planter appears to be novel, and we advise you to send us a model for a more thorough examination; the sketch is very differently prepared.

T. G. M., of N. H.—Your device for regulating the quantity of water in steam boilers, is an old invention, patented more than twenty years ago; the same principle has been applied not only with a reciprocating piston, but with a rotating cylinder, and also with a rotating disk.

L. B. B., of Pa.—Lead pipe will corrode in moist ground rich with animal matter: we do not know of anything to prevent them from corroding; we never saw galvanized lead pipe; if you could embed them in dry sand they would not corrode.

W. H. R., of Ohio—It would be perfectly consistent for us to publish your article, if it contained any scientific data or argument against any theory, or in favor of any one; but you seem to be well aware of its defect in this respect.

S. G. C., of Pa.—There is no work on that class of engineering that we could recommend to suit you.

C. M. M., of Min. Ter.—We believe the concavo bullet to be the best. Chapman's work on the American Rifle will give you the proper information on the twist of rifles; the twist has nothing to do with Sharp's rifles.

W. W. K., of N. Y.—The paste of letter stamps is made of dextrine, formed by exposing starch to a high temperature—about 400 deg. Fah.; or by boiling starch with a very minute quantity of sulphuric acid.

R. M. C., of Texas—The experiment with steam on the principle of the Barker Mill has been fairly tested on a locomotive near this city; it was too expensive, as was demonstrated by scientific data, before it made a single revolution. You are right about hot air, as it relates to its temperature; we have said that it only could be used economically at a very high temperature. The metal and packing will not hold of this.

J. H. S., of Md.—Your suggestion in regard to an index for each number is worth heeding, but we find very little time to attend to its weekly preparation; perhaps in our next volume we may adopt it.

A. H., of Va.—"Scott's Little Giant Mill," is sold by J. P. Merriam, of Sandusky, Ohio.

L. R., of N. Y.—You ask if we think a column and shaft of Spiritual Philosophy is more interesting to our readers than a few items about static power; we will be our own judge in such matters.

A. S., of Geo.—The operation of the propellers as proposed by you would be disastrous.

J. S., of Wis.—We have received the description of your life-preserving mattress; a mattress constructed of india rubber, and filled with hair, cork, or any light substance, is well known and there is now no chance to secure it by patent.

E. T., of Ohio—Is requested by James Britton, of Hartford, Conn., to address him upon the subject of portable gas works.

O. C., of S. C.—The articles upon electro-plating were published in Vol. 6. Don't know the price of Smee's work, it is sold by John Wiley, of this city.

Some unknown correspondent has sent us a drawing of a churn almost equal in extent to a steam engine; the simple process of churning can be carried on without so much wasted machinery.

W. K. P., of —Your method of getting up the speed on locomotive wheels is old and not a good one; the wings on the surf boats would not stand the severe dashing of the waves.

J. H., of N. Y.—The power of an engine is the steam; that is its amount; a five inch bore and twelve inch stroke is a good size for a two horse engine; you should have two cubic yards of water, but it should have nearly as much space for steam. The grate surface should be two square feet.

A. Z., of Baltimore—We do not remember to have ever seen your article on calculating the weight of iron castings from the weight of the pattern; we would like to get the rule; your article will appear next week.

A. L., of Ct.—We have never heard of the decision of the Circuit Court in relation to Batten's Coal Breaker being reversed by the Supreme Court. If a thing is described in a patent, and not claimed, and the same suffered to go into public use for two years, we suppose it becomes public property.

L. D., of Pa.—We have received Mr. Robinson's withdrawal and forwarded it to the Patent Office, as you request. Instead of entering you for six months subscription, we have entered you for one year, which the \$20 will pay for, with good engravings.

T. & R., of Mass.—Etching engravings is a very old art, but if you have a plan that has never been known or used before, it is patentable, most certainly.

J. B. G., of R. I.—We note your remark in regard to taking artificial flowers to Paris; we are unable to advise upon such a subject; if you can make them "look and smell," like the natural flower it is a step ahead of anything we have ever heard of before in the same line.

C. B. B., of Ill.—As soon as we receive the model of your mowing machine we will examine it and write you: be particular in giving a description of the supposed improvement.

A. E., of Ohio—The \$30 named was for the government fee. Our charge will be either \$25 or \$30. Can't tell which till we see the model.

J. S. B., of Ct.—Your invention is one of such importance that perhaps you had better keep it a profound secret until you can raise the funds necessary to secure a patent.

G. L. B., of Me.—Yours will receive attention.

J. B. C., of Tenn.—Yours is received.

L. F. M., of N. Y.—Yours will be considered.

J. H. C., of N. C.—You can have the "Dictionary of Technical Terms" sent by mail; you can freely use cast-iron pulleys on cotton gins.

Money received on account of Patent Office business for the week ending Saturday, March 10:—

K. & F., of Mass., \$25; C. & L., of O., \$30; H. W. O., of Ct., \$30; S. M., of Ill., \$40; L. M. W., of N. Y., \$27; P. M., of Ill., \$15; S. & R., of Vt., \$10; W. & P., of Ct., \$25; A. B. C., of N. Y., \$20; A. W. F., of Pa., \$32; L. & T., of Pa., \$30; J. & O., of Mass., \$30; J. J. T., of Pa., \$30; H. & M., of N. Y., \$25; S. S., of Mich., \$35; J. W., of Me., \$50; D. & J. R., of Pa., \$30; J. S., of N. Y., \$55; O. L., of Pa., \$30; L. C., of Ct., \$10; J. R., of N. Y., \$40; G. R., of Mass., \$60; A. B., of Ct., \$25; J. W. A., of N. Y., \$30; J. Y. S., of Pa., \$10; R. H. G., of N. Y., \$45; J. H. M., of Pa., \$25; J. W., of N. Y., \$30; M. F. C., of N. J., D. McA., of Ct., \$25; C. N. W., of N. C., \$25; J. B. T., N. Y., \$25; R. D., of Pa., \$20; P. B., of Conn., \$30; M. & C., of Ct., \$30; T. A., of Ala., \$30; D. T., of N. Y., \$30; T. J. B., of Ct., \$35; W. W., of N. Y., \$25; W. & P., of N. Y., \$35.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 10:—

K. & F., of Mass.; L. M. W., of N. Y.; T. J. B., of Ct.; P. M., of Ill.; A. B. C., of N. Y.; W. & P., of Ct.; A. C. B., of Ala.; H. & M., of N. Y.; W. W., of N. Y.; D. McA., of Ct.; A. B., of Ct.; A. B., of N. Y.; J. B. T., of N. Y.; J. & C., of Mass.; C. N. W., of N. C.; D. T., of N. Y.; G. T., of O.; J. H. M., of Pa.; W. J. S., of N. Y.

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 12½ cents per copy.

MODELS.—We are receiving almost daily, models of inventions which have not the names of their inventors marked upon them. This usually prevents us from taking any notice of them whatever. We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and sometimes prevent the model from being mislaid.

RECEIPTS.—When money is paid at the office for subscriptions a receipt for it will always be given, but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgement of the receipt of their funds.

BACK NUMBERS AND VOLUMES.—We have the following numbers and volumes of the SCIENTIFIC AMERICAN, which we can supply at the annexed prices:—Of Volume 6, forty numbers; price in sheets, \$1; bound, \$1.75. 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.

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.

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Table with 2 columns: Lines for each insertion, Price. 4 lines, \$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., Publishers and Proprietors of the SCIENTIFIC AMERICAN, continue to prepare specifications and drawings, and attend to procuring patents for new inventions in the United States, Great Britain, France, Belgium, Holland, Austria, Spain, etc., etc. We have constantly employed under our personal supervision a competent board of Scientific Examiners, which enables us to despatch with great facility a very large amount of business. Inventors are reminded that all matter entrusted to our care are strictly confidential, and hence it is unnecessary for them to incur the expense of attending in person. They should first send us a sketch and description of the invention, and we will carefully examine it, state our opinion, and the expense of making an application, if deemed new and worthy of it. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country. Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps toward making an application.

Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the especial 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. It is very important that trustworthy and competent agents should be employed in securing patents, as great care is necessary in the preparation of the papers, as well as integrity in taking proper care of the case until the inventor is duly invested with his legal rights. 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 the largest proportion of 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 128 Fulton Street, New York; London, No. 32 Essex St., Strand; Paris, No. 29 Boulevard St. Martin; Brussels, No. 6 Rue D'Or.

FOR SALE.—The whole or a part of a patent for an implement for boring in the earth for mines, wells, &c. It is a rare chance for manufacturers. For further information apply to J. W. Adams, Sharpton, Somerset Co., Md.

PIG IRON—500 TONS AMERICAN.—Of good brands, now in yard, for sale by G. O. ROBERTSON, 135 Water st., N. Y.

ONE 30 HORSE, ONE 9 HORSE, and Two 10 HORSE Steam Engines for sale. Also Two Reeling Saw Mills. J. C. PORTER, 29th street & 11th Avenue, New York.

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.

OLD FILES MADE GOOD AS NEW For 2 Cents.—Much time and money has been expended upon plans for cutting files by machinery, but instead of that, if Yankee ingenuity had been turned to finding a plan for recutting old files by acid, many more dollars would have been saved. There is a way that old files can be recut by acid and made as good as new. We recut all our old files, and our knowledge of our plan of operation is a valuable one; but in order that none may feel too poor to possess it, we will furnish it to any one who will forward us eight letter stamps, or 25 cents in money, and if it does not do all that we say, we will refund the money. Address, TAYLOR & RODGERS, Ipswich, Mass.

IMPROVED PORTABLE CIRCULAR Saw-mills.—Manufactured by W. HERRICK, near the Depot, Northampton, Mass. N. B. Saw Mandrills, Saws, improved Saw-sets and Upsets furnished and warranted. Orders filled for any part of the United States. 27 1/2

SMITH'S WATER-TUYERS.—Prosser's Patent. These Tuyers are made of wrought-iron, and are warranted not to be the most perfect in the world. 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. 27 1/2

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. 27 1/2

STAVE DRESSER AND JOINTER.—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. D. BENSON, Jackson, Susquehanna Co., Pa., any communications may be addressed. 27 1/2

IRON FOUNDERS' FACING MATERIALS.—Viz. Pulverized Sea Coal, Black Lead, Soapstone, Anthracite and Charcoal of superior quality; also Fire Bricks, Fire Clay Molding Sand, and Core Flour, for sale by G. O. ROBERTSON, 135 Water street. 27 1/2

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 200 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 full list of Agents, for single subscriptions and clubs, varying in value from 25 cts. to \$8, will be forwarded free by addressing, post-paid, F. WOODS & CO., Publishers, 15 Beekman street, New York. 26 1/2

TO MILL WRIGHTS.—Proposals will be received by Alonzo Livermore, Engineer of the Sunbury Canal and Lumber Co., at his office in Sunbury, Northumberland Co., Pa. until the 2nd day of April, 1855, for building mills and machinery for manufacturing lumber, by water power, with turbine wheels of approved pattern, with sufficient power to saw 100,000 feet of pine boards in 24 hours. (The materials to be used by the contractor, except the lumber, which will be furnished by the Company. Bidders must furnish proper testimonials of responsibility and skill, and should clearly understand the principles of the turbine wheel. For further information apply to the Engineer. W. L. DEWART, Pres't. 26 1/2

FOR SALE.—At half price, a superior hydro-oxygen microscope, suitable for colleges, schools, or exhibition purposes. Apply to JOHN ROACH, Optician, 111 Fulton street, N. Y. 26 1/2

KNOWER MANUFACTURING CO.—Wallingford, Conn. Manufacturers of Single and Double Action Power or Hand Presses and Boiler Pumps. Raising Presses for Boston, and all parts of the State. Hollow-ware, Single and Compound Lever Presses for Finners use. Weight of Presses from 100 to 1400 lbs. Die-beds and Dies made to order. 25 1/2

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JOHN STOKELL, Jr.—No. 26 Platt st., New York, manufacturer of Regulators for railroad companies, watchmakers, and others: clocks for churches and public buildings of any kind. Models of machines and light machinery in general. 21 cowt

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STATIONARY STEAM ENGINES FOR SALE.—Horizontal Engines with iron bed frames and Judson's Patent Valves, good, strong, substantial, plain finished, hat will do good service, say from 4 horse power, \$25 to 30 horse, \$1,000. Pumps, Boilers, and fixtures also to be supplied when needed. Address S. C. HILLS, 12 Platt st., New York. e3wt

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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 benefit of their water power. Cotton machinery of all kinds, shafting and machinists tools, also furnished on reasonable terms, by Ames Manufacturing Co., Chicopee, Mass. Any information will be furnished on application to JAMES T. AMES, Agent. 24 8

JOHN PAUSHLEY—No. 5 and 7 Howard street, New Haven, Ct., is now finishing off 25 Iron Planers to plane 6 feet long, 36 in. wide, and 23 in. high, and weigh 300 lbs. These planers have the down and angle feed in the head, and are built in the best workmanlike manner, and are warranted as good as the best planers built in the New England States. The price of planer with counter shaft, all complete, \$300; a discount of 10 per cent. will be made on all orders received before the first of April, 1855; terms cash, and boxing and shipping charges extra. Cuts of these planers and other tools can be had by addressing as above, post-paid. 25 1/2

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NEW HAVEN MANUFACTURING COMPANY Machinists' Tools, 65 Iron planers of all sizes: 350 Engine 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. 21 ft

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. 22 1/2

MACHINE GROUND CIRCULAR SAWS.—(Patent applied for.) Mill men would do well to try these saws, are perfectly free from thin or thick places, can be used thinner and with less set, and run faster than any other hitherto made. All diameters and thicknesses warranted perfectly true. HENSHAW & CLEMSON, 31 Exchange street, Boston. 19 1/2

HARRISON'S GRAIN MILLS.—Latest Patent.—\$1000 reward offered by the patentee for their equal. A supply constantly on hand. Liberal Commissions paid to agents. For further information address New Haven Manufacturing Co., New Haven, Conn., or to S. C. HILLS, our agent, 12 Platt Street, New York. 13 ft

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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 with to the cooper 20 to 40 per cent. more than when finished in any other way. Special attention is invited to the improved Stave Jointer. Apply to C. B. HUTCHINSON & CO., Crystal Palace, or Auburn, N. Y. 13 ft

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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. 12, 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, 208 Broadway, New York. Office for sale of rights at 208 Broadway, New York; Boston, 27 State street, and Lowell, Mass. 16 m

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VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Horsepower Horsepower, Smut Machines, Saw and Grist Mill Irons and Gearing, Saw Gummies, Ratchet Drills, &c. Orders for light and heavy forging and castings executed with dispatch. 8 1/2 LOGAN VAIL & CO., 9 Gold st., N. Y.

NORTHVILLE MACHINE WORKS.—Manufacturers of Machinists Tools, consisting of Engine Lathes, Power Planers, Hand Lathes, Engine Lathes for turning chair stuff, all of the most improved pattern and quality of workmanship. Worcester, Northville, Mass. August 1854. TAFT & GLEASON. 50 1/2