

TO CORRESPONDENTS.

J. W. T., of —.—Three men will move a house 40x30 feet, with a capstan and a horse operating it. The house is raised by jacks, set upon long rollers and drawn by a cable passing round the capstan; the horse operates the cable by a long lever, like that of a clay pug mill. You can build an ice house above or below ground of wood, brick, or stone, by making the walls double, packing between them with saw-dust or charcoal. It must be placed in such a position that any moisture will easily drain through the floor and run off. To do this, make the floors with wide seams and cover them with clean straw: the work is an easy one.

W. R., of Ala.—We have never seen a cap like yours employed, but we cannot see any advantage that can be obtained by its use.

W. F., of Ohio—If you have any taste for the engine you could soon learn to operate one: a few months practice in an engine building establishment would be better for you than all the books you could purchase; careful and experienced men are wanted as engineers; your age is no objection.

R. O. H., of Ireland—The wood planing machine you speak of as having been introduced into your country, three or four years ago, is the American Woodworth machine, and was patented here more than twenty years ago.

T. W., of Tenn.—It will take 250 cubic feet of water per day for a 25-horse-power engine, low pressure; if you use high pressure and expand, according to the gain by expansion, you will use less water. You can therefore calculate from this data.

O. H. P. W., of Ala.—Nocemmon whitewash will stand exposure to the weather without rubbing off; make up your lime in the common way for whitewashing, and dissolve half a pound of common salt in every six gallons of it; it will turn yellow in the course of time. We will furnish a receipt next week.

J. F. O., of S. C.—The machines for splitting lath from round logs, we saw some two years since at the American Institute Fair, but do not know who makes them. The machine of Packard, Greenwich, Ct., noticed a few weeks since is a good one.

W. & Co., of Ohio—Sulphuric acid will act upon the oil contained in the alcohol made from corn; that substance is fuel oil, and when corn whiskeys used for making alcohol, sulphuric acid is used to purify it by removing this oil.

M. K., of Ind.—Gold cannot be destroyed in a furnace: it can be melted, but this is all; steel is polished on emery cylinders, and finished on tripoli or crocus cylinders.

A. S., of N. Y.—Your method of securing hubs to axles is new, so far as we know; we have seen a great variety of devices for this purpose.

J. O. O., of Ohio—We learn upon inquiry that Wilkinson's press, to print on a continuous sheet, was invented some years since, but owing to want of means he could not complete it, therefore he must be before you in the business.

H. M. P., of Ct.—Your "new" discovery goes far beyond anything we ever heard of. Have you read what Regnault says about condensed carbonic acid gas? Just try your discovery in a working engine. It cannot operate.

E. M. H., of N. Y.—Nathan Brand, of Leonardsville, N. Y., is the patentee of the rotary anvil stock.

L. B. A., of Pa.—We are in correspondence with a party about constructing a new model for you, and as soon as we get a reply we will advise you.

J. F., of N. Y.—We expected to have published an engraving of Hutchinson's stove machine before this, but have been prevented for want of the necessary information in regard to it. We promised it and shall endeavor to fulfill our promise at some future time.

C. R., of Cin.—We have never seen a double grate like yours, but a long grate will accomplish the same object; by it you can push back the red coals from behind the door, and supply their place with the fresh when you feed.

J. H. C., of N. H.—We do not discover anything in your modification of the "Hot Air Engine" which recommends itself to our approval. It is quite evident that you do not understand the nature of heated air as a motor. Our arguments so carefully elaborated in the last volume of this paper, are good against the success of your plan: read them carefully and you will doubtless abandon the scheme.

R. R. L., of N. Y.—Your suggestions in regard to feeding paper to presses in an endless web, is not new, neither is the Register for indicating the speed of trains. H. L. R., of —. We can furnish you with "Ranlett's Architect" bound, two volumes, for \$12, or in numbers at \$10.

T. C. & W., of Pa.—Yours has been received. O. A. B., of N. Y.—The oil we think will injure the vulcanized india rubber, submitted to heat, but it will last for a long time if kept cool.

D. P. B., of Ind.—Your communication in answer to "Toll Dish" we must decline for want of space; we do not wish to prolong any controversy over both parties have had their say, and we will if you desire, forward your communication to his address.

W. W., of S. C.—Your contrivance for shaking and conveying straw seems to be novel, possessing patentable features. We shall send you instructions how to proceed with the case.

J. M. T., of Ill.—There is no striking novelty in your plan for an elevated railway. You had better drop it.

J. M. T., of Ill.—The construction of your stone dressing machine is different from any other in use we believe, but the steel disc cutter having an axis of its own patented to Chas. Wilson, therefore you cannot use it.

E. C. H., of Ohio—We do not believe there is in existence a type-distributing machine which is capable of performing the work "while its operator is asleep or absent." If there is we have never heard of it.

D. McK., of Mass.—It is to be hoped that you will be successful, and that a voyage will yet be made across the Atlantic with as much comfort as sitting in a parlor on land.

T. D., of Pa.—You should not pay so much attention to that which can do you no good. It is folly in you to pursue a mechanical phantom. The power which you can obtain by any machine, will always be less than the applied power, not greater.

F. S., of N. Y.—The plan of rotary engine which you submit for examination is old and well known. We cannot advise even an experiment, as we have no faith in its success.

Money received on account of Patent Office business for the week ending Saturday, Dec. 10:— B. F. McL., of O., \$65; J. McD., of Conn., \$30; T. R. & Sons, of N. Y., \$25; G. W. R., of Ky., \$55; G. L. W., of Md., \$40; J. L. B., of Mo., \$35; D. S. of Pa., \$10; D. G. of N. Y., \$30; W. & G., of Pa., \$50; C. F. S., of N. Y., \$10; H. S. W., of O., \$45; G. M. R., of N. Y., \$15; W. H. & B., of Pa., \$20; H. E. C., of N. Y., \$15; S. S. H., of N. Y., \$30; W. G. H., of Pa., \$35; D. F. of Pa., \$55; C. W. of N. Y., \$55; J. Y., of O., \$60.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Dec. 10:— J. H. W., of Ga.; J. McD., of Conn.; H. N., of Pa.; J. C., of O.; D. & S. K. F., of N. Y.; C. V. A., of N. Y.; D. B., of N. J.; H. E. C., of N. Y.; J. F. F., of S. C.

A Chapter of Suggestions, &c

PATENT LAWS, AND GUIDA 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 regulations of the Patent Office. Price 12 1/2 cents per copy.

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 bonafide acknowledgment of the receipt of their funds.

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 Vols. 1, 2, 3, and 4 none. Of Vol. 5, all but six numbers, price, in sheets, \$1; bound, \$1.75. Of Vol. 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7, all; price, in sheets, \$2; bound, \$2.75. Of Vol. 8, all; price, in sheets, \$2; bound, \$2.75; of Vol. 9, none.

GIVE INTELLIGIBLE DIRECTIONS—We often receive letters with money enclosed, requesting the paper sent for the amount of the enclosure, but no name of State given, and often with the name of the post-office also omitted. Persons should be careful to write their names plainly when they address publishers, and to name the post-office at which they wish to receive their paper, and the State in which the post-office is located.

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.

PATENTEES—Remember we are always willing to execute and publish engravings of your inventions, providing they are on interesting subjects, and have never appeared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permitted to have the engravings executed to suit our own columns in size and style. Barely the expense of the engraving is charged by us, and the wood-cuts may be claimed by the inventor, and subsequently used to advantage in other journals.

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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.

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IRON DRILLS.—Portable drills for drilling iron.—They are the most simple and convenient in use, having a newly invented feed motion, simple and efficient in its operation. They are constructed of iron, and weigh 30 lbs. We can recommend them as a first rate article. Price \$30. Address MUNN & CO., at this office.

TO INVENTORS.—The "Inventors Protective National Union," composed of inventors only, is now organized. You are invited to become members by sending your address, the names of your inventions, and \$5, to the Superintendent or Secretary, your name and inventions are recorded in the book of the Constitution and By Laws, from which time you can participate in all the advantages of the Society. Copies of the Constitution and By Laws will be sent to inventors, on application, gratis. L. B. PAGE, Superintendent, Crystal Palace, New York. HAMMOND HOWA, Sec'y., Washington City. 14\*

TO PATENTEES, INVENTORS, &c.—Models and Patterns made on reasonable terms. T. M. CRACKLES, 48 Hamilton Avenue, South Brooklyn. 1\*

MARK'S ARTIFICIAL LEG.—Made by Marks Brothers, 429 Broadway, N. Y. This newly invented and much improved Leg is considered superior to any other, for ease, and natural motion, durability, and beauty. D. B. MARKS & A. A. MARKS, inventors. 14\*

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UNITED STATES PATENT OFFICE.

Washington, Dec. 2, 1853. ON THE PETITION of Henry Burden, of Troy, New York, praying for the extension of a patent granted to him on the 2nd day of September, 1840, and renewed 2d March, 1849, for an improvement in Machinery for making Hook-headed Spikes, for seven years from the expiration of said patent, which takes place on the 2nd day of March, eighteen hundred and fifty-four.

It is ordered that the said petition be heard at the Patent Office on Monday, the 13th day of February 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. Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Evening National Argus and Pennsylvania, Philadelphia, Pennsylvania; United States Argus, and Scientific American, New York; Boston Post, Boston, Massachusetts; Atlas, Albany, New York; Morning Post, Pittsburg, Pa., and Enquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the thirtieth day of February next.

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. 14 3

TO MANUFACTURERS AND MILLERS.—For sale, a valuable Mill Seat, within one mile of the city of Troy, N. Y. It comprises two four story Brick Flouring Mills, each of which have four run of stone, and are capable of doing the best of grinding. Two wood dwelling houses, and one barn, with considerable land adjoining the whole. The stream upon which the above is situated is known as the Foestenkill, and furnishes strong power of 22 feet head, so that the mills could be converted, if the purchaser wishes, into other branches of manufacture. The buildings are well situated, and the facilities a manufacturer would have are very great, owing to the position of Troy as a noted and increasing railroad center, and the accessibility to and from the city of the property. The object of sale is for partition among the heirs. For plans and further particulars apply to or address T. M. C. BUCKLEY, Troy, N. Y. 14 4

THE NEW HYDROPATHIC COOK BOOK, with Three Hundred Recipes for Cooking on Hygienic Principles, containing also a Philosophical Exposition of the Relations of Food to Health; the Chemical Elements and Proximate Constitution of Alimentary Principles; the Nutritive Properties of all kinds of Aliments; the Relative Value of Vegetable and Animal Substances; the Preservation of Food, and the Preparation of Pickles, &c., &c. By R. T. TRAIL, M. D. With One Hundred Illustrative Engravings. 1 vol., 12mo. Price, delivered free, 87 cents. Published by FOWLER & WELLS, No. 131 Nassau st., New York. Boston, No. 124 Washington st.; Philadelphia, No. 231 Arch st. 14 4

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MACHINERY.—S. C. HILLS, No. 12 Platt st., N. Y. Dealer in Steam Engines, Boilers, Iron Plates, Cast-iron Chucks, Bricks; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniels, and Law's Planing Machines; Dick's Presses, Punches, and Shears; Morticing and Tenoning Machines; Belting; Machinery Oil, Bea's Patent Cob and Corn Mills; Burr Mill and Grindstones; Lead and Iron Pipe, &c. Letters, to be noticed, must be post-paid. If row

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WEIGHING AND PACKING MACHINE.—This machine is especially adapted for the weighing and packing of ground spices, coffee, teas, saleratus, cream tartar, British luster, arrowroot, drugs, prepared flour, farina, starch, cocoa, oat meal, yeast powders, seeds, snuff, ground herbs, or any like material, which may require to be put in packages, from ounces to pounds. Its advantages over the old method of packing by hand are many. One of these machines will, with the aid of one person, weigh accurately, and pack neatly, from 4 to 5,000 packages per day. It requires very little power to run it, and is not liable to get out of repair. Having purchased the exclusive right to manufacture and sell throughout the United States, we are prepared to execute orders for the machines on sale of the rights, on reasonable terms. N. B. HARRIS & Co., Proprietors of the Excelsior Steam Spice Mills, Philadelphia, Pa. 13 13

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