

24,702.—A. S. Philips, of Boston, Mass., (assignor to himself and Isaac Adams), of South Boston, Mass., for an Improved Hawse Pipe, for Ships:

I claim a tubular cable guide curved substantially as described.

24,703.—Peter Plater (assignor to himself and J. S. Fleming) of Moore's Hill, Ind., for an Improvement in Corn Planters:

I claim the arrangement of the shield, T, hammer, G, sliding feed bar, I, lever, O, crank shaft, K, and spring, H, the whole being constructed for operation, conjointly, as and for the purpose set forth.

24,704.—John I. Rollow (assignor to Chas. C. Wellford), of Frederickburgh, Va., for an Improvement in Threshing Machines.

I claim the combination of the inclined carrier, H, with the shoot, I, and curved screen, J, the whole being constructed, arranged and operated in the manner and for the purposes set forth.

24,705.—Wm. Spink (assignor to Oliver A. Washburn, Jr.), of Providence, R. I., for an Improved Machine for Pointing Nails and Spikes:

I claim the combination of the bunter, G, the pointer, F, and the spring, L, with each other, and with the back piece and other parts of the reed machine, or with the corresponding parts of any other nail machines, constructed and operated substantially in the manner as set forth.

24,706.—Geo. C. Wheeler, of Graysville, Ga., assignor to himself and Geo. Calvert, of Upperville, Va., for an Improved Machine for Washing and Amalgamating Gold:

I claim, first, The relative arrangement for united operation of the hopper, I, horizontally revolving vertical tubes, H H H, horizontally revolving rakes, G G G, and stationary washing vessels, B C, substantially as and for the purpose described.

Second, Making the receiver or washing vessel into two parts, B C, and combining with the part, C, an adjusting device, D, a, substantially as and for the purpose described.

24,707.—W. W. Wood and Henry Howson, (assignor to John Rice,) of Philadelphia, Pa., for an Improved Device for Operating the Cut-off Valve of Steam-engines:

We limit our claim to causing the positive power of the engine to operate the throttle valve, by the employment of two vibrating, reciprocating or rotating strikers, actuated by any positive movement of the engine, in combination with two inclined planes intervening between the said strikers, and the valve or appliances connected therewith, any governor being so connected to the strikers or to the inclined planes, that the movement of the governor caused by any increase or diminution in the speed of the engine, shall change the position of the inclined planes in respect to the strikers or that of the strikers in respect to the inclined planes, and that the latter may thereby be the intermediate means of regulating the extent of the opening of the valve to suit the speed of the engine while the actual movement of the valve is effected through one or the other of the strikers by the power of the engine itself as set forth.

RE-ISSUES.

752.—Albert Fuller, of Cincinnati, O., for an Improved Faucet. Patented Oct. 16, 1855:

I claim the elastic plug valve attached to a stem, when operated by an eccentric, or its equivalent, substantially as set forth for the purposes described.

I also claim the elastic plug valve, constructed as described, in combination with the cup-shaped cap to prevent the cup from spreading, substantially as described.

753.—James Powell, of Cincinnati, Ohio, for an Improvement in Faucets. Patented March 22, 1859:

I claim the described arrangement of the cam, F, flanges, J and J', longitudinal slot, I, and spurs, K, combined and operating in the manner and for the purposes set forth.

ADDITIONAL IMPROVEMENT.

242.—Hubbard Beebe, of New Haven, Conn., for Mode of Preparing and Mounting Slates. Patented March 29, 1859:

I claim the combination of leather, or cloth, or felt, (or felting) instead of, or in addition to, india-rubber and gutta-percha, so far as beauty, and economy, and desirableness in use may require, with the metallic band or rim around the edge of the slate, as patented March 29, 1859.

I also claim, as my improvement, the combination of leather and cloth with my metallic rim, or with a waterproof cement of high strength and stiffness as will warrant, to some extent, the disuse of said metallic rim, especially in mounting slates in portfolio form or forms, as set forth in the specification and accompanying drawings.

EXTENSION.

Isaac T. Grant, of Shaghticoke, N. Y., for an Improvement in Fan Mills. Patented July 10, 1845.

I claim the manner in which I have arranged the screen F, and the chess-board, H, and combined them with the screens ordinarily used, so as to obtain two distinct currents of wind, and to subject the falling grain to the stronger currents below the screen and chess-board, thereby blowing off the heavier portions of foreign matter, whilst the chaff is blown off by the ordinary currents in the upper compartments of the shoe.

DESIGNS.

1,112.—James Greer and Rufus J. King, of Dayton, Ohio, for Design for Cooking Stoves.

1,113.—James Greer and Rufus J. King, of Dayton, Ohio, for Design for Sides and Doors of Cooking-Stoves:

1,114.—Henry Hebbard, of New York City, for Design for Spoon and Fork Handles.

1,115.—Wm. W. Wilson, of Pittsburg, Pa., for Design for Sundials.

1,116.—James Bogle, of West Newton, Mass., assignor to himself and Daniel Bogle, of Dover, N. H., for Design for Floor Oilcloth:

1,117.—James Bogle, of West Newton, Mass., assignor to himself and Daniel Bogle, of Dover, N. H., for Design for Floor Oilcloth.

1,118.—Garretson Smith and Henry Brown, (assignor to J. G. Abbott and A. Lawrence), of Philadelphia, Pa., for Design for Stoves.

1,119.—Wm. W. Stevens, of Westbrook, Maine, assignor to N. P. Richardson & Co., of Portland, Maine, for Design for Fire Frames.

1,120, 1,121, 1,122, and 1,123.—E. J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for Design for a Carpet Pattern. (Four Cases.)



H. G. F., of Va.—We shall be happy to insert an engraving of your invention in the SCIENTIFIC AMERICAN if you will send us your model and Letters Patent, and are willing to incur the expense of the cut, which will not exceed \$15. It is only good and meritorious inventions that we desire to illustrate, and we think your's belongs to this class. We have no use for the engravings after we have once used them; they can be sent to you by express with the model and Letters Patent. You must be your own judge as to the benefit you will derive from having your invention illustrated on these very liberal terms, and while our chief object is to interest our readers, we are willing you should have, gratuitously, the benefit of the circulation of our journal, which is regularly seen by at least 75,000 persons every week. The charge for the engraving (\$15) is merely its cost to us, and while you get an equivalent for your money in the engraving itself, you also have the benefit of a circulation which, taken with the cost of the white paper and the printing of a single edition as we publish, would cost you hundreds of dollars in any other journal but our own.

C. E. N., of Maine.—The lacquer used for brasswork is made by coloring lac-varnish either with turmeric or gamboge. You can obtain these coloring materials at any druggist's store.

C. E. B., of Ala.—The method of propelling vessels by forcing out a stream of water at the stern through a tube by means of a steam-engine is quite old, and was proposed and tried by Rumsey, the cotemporary of John Fitch.

L. B. A., of Wis.—You can only replace the quick-silver rubbed off from the back of your looking-glass, by an amalgam of the same material; as a partial substitute, put on a piece of tin-foil.

D. P., of Ark.—An injunction can be obtained by proper process of law against a Cherokee Indian or any other person within the jurisdiction of the United States Supreme Court, because patents are held, not under local, but United States law.

J. S. H., of Wis.—You can prepare mink and muskrat skins with the fur on, for wearing, by tanning them with weak liquors of sumac or blackberry stems. They should be dried in the shade, and stretched with tacks on boards while drying. You can also tan them by passing them through a solution of soap-suds, and afterwards through a strong alum liquor. Rub the skin with aromatic oil on the flesh side after it is dry.

G. S. K., of Fla.—In admitting the water to the center-wheel, you should not carry it down in a straight trunk, and conduct it from thence at right angles in a flume to the wheel, because you lose much of the effect due to the direct pressure. The trunk should be angled from the top of the penstock, and should have no sharp corners. Your arrangement of the wheel and flume is not good.

O. H., Jr., of Cal.—In a windmill it requires 40 square feet of sail surface moving at the velocity of 12 feet per second, with a pressure of 1 1/4 lbs. on the square foot to be one horse power. The wind must act on the whole 40 feet continually to give out this amount of power. There is no power in such a mill independent of the pressure on the sails; consequently, the power varies with the velocity of the wind.

J. H. W., of La.—A round cistern, 12 feet in diameter and 12 feet in depth, will contain 1,357 feet of water. A four-sided cistern, 16 feet in length, and 16 feet in width, and 22 feet in depth, will contain 5,632 cubic feet of the same element.

N. P., of N. Y.—If you will give us some further information regarding the method by which you keep the battery active for telegraphing through a long circuit, we will publish it with the letter you recently sent us.

S. A. C., of N. C.—The Oswego phenomenon proved to be a humbug got up by an enterprising hotel-keeper for the purpose of raising the wind.

C. R. B., of C. W.—Some of our steamboats have run at the rate of 28 miles in one hour. If you were to enter a tight chamber filled with air ten feet high at the surface of the earth, the pressure would be 15 lbs. on the square inch. There is a work published on ballooning, by Mr. J. Wise, the famous American aerial navigator.

J. O. G., of Mo.—The cheapest mode of heating water, without a regular heater, before it enters a boiler, is to use tubular grate-bars and force the water through them. Cold water may be safely fed into a steam boiler; it should enter at the back end. A suction tube eight inches in diameter will answer for force pumps of five inches diameter each.

C. E. S., of Iowa.—The Great Eastern will be propelled by quadruple engines, the aggregate power of which, it is stated, will be about 6,000 horses.

J. C. B., of L. I.—Bone can be stained a deep black by boiling it in a strong solution of logwood and a little copperas. After it is dry, rub an ethereal solution of asphaltum over its surface, and it will become smooth and glossy.

J. W., of Miss.—If a piece of paper, coal, or wood be burned, there exists no less matter than before; all that has taken place is a change of arrangement or combination of atoms.

M. S., of Ala.—With the assistance of a microscope, the grain of gold may be seen divided into fifty millions of distinct parts.

J. P. B., of Mo.—One hundred yards of the raw silk of the silkworm does not weigh a grain; and it has to be doubled and twisted many times to form a fine thread for domestic use. Still finer are the fragile threads of the spider, which, proceeding from 4,000 holes in the little animal, are all twined together to form one slight beautiful gossamer line.

R. M., of Ind.—The invention of the long pendulum was claimed by a London artist named Richard Harris, who applied it to a clock in 1611, which is seventeen years before the time that Galileo directed one to be made.

Money Received

At the SCIENTIFIC AMERICAN Office on account of Patent Office business, for the week ending Saturday, July 9, 1859:—

R. D., of N. H., \$55; D. & C., of Conn., \$25; W. J. K., of Ga., \$30; C. C. B., of Ohio, \$10; P. & S., of La., \$30; T. C., of Mass., \$30; P. M. H., of Pa., \$30; J. M., of Ill., \$10; S. M. C., of Mass., \$275; J. W., of N. Y., \$30; I. M., of N. Y., \$10; J. F. S., of Pa., \$35; L. K., of N. Y., \$30; F. J. P., of Tenn., \$30; H. C., of Ga., \$25; L. M., of Wis., \$25; A. L. E., of N. Y., \$25; S. B., of Va., \$30; G. M. of Ill., \$25; W. McE., of Ind., \$30; M. D., of Mass., \$250; A. G., of N. Y., \$50; E. D., of La., \$140; A. McA., of N. Y., \$25; T. L. B., of N. Y., \$30; A. E. & S. N. McG., of Minn., \$10; L. A., of Ohio, \$25; N. C., of Ohio, \$30; H. C. S., of Ohio, \$25; N. J. V., of Ohio, \$30; W. A. of Ill., \$25; G. & S., of Mich., \$30; J. L. B., of Ohio, \$30; E. O. B., of Ill., \$30; A. H., of Ill., \$25; C. & M., of Ind., \$25; A. W., of Conn., \$25; L. & J., of N. Y., \$25; J. B., of Pa., \$30; F. A. B., of Ct., \$30; J. O. D., of N. Y., \$30; L. W., of Miss., \$25; C. W. R., of Pa., \$50; I. R. S., of Va., \$35; T. H., of L. I., \$30; R. D., of Mich., \$30; A. L., of —, \$20; G. S. Van S., of Va., \$30; J. A. & A. F. D., of N. Y., \$25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 9, 1859:—

G. C. of Miss.; W. J. K. of Ga.; A. W. of Ct.; B. & B. of Ill.; L. & W. of La.; H. C. of Ga.; C. & M., of Ill.; D. & C. of Conn.; E. O. B., of Ill.; L. A., of Ohio; J. R. S., of Va.; G. M. Jr. of Ill.; H. G. of La. (2 cases); L. & J. of N. Y.; A. McA. of N. Y.; M. C. K. of Iowa; A. L. E. of N. Y.; A. H. of Ill.; J. A. & A. F. D. of N. Y.; E. D. of La. (2 cases); H. T., of N. J.; W. A. of Ill.; J. D. of N. Y.

Rates of Advertising.

Thirty cents per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, we will explain that ten words average one line. Engravings will not be admitted into our advertising columns; and, as heretofore, the publishers reserve to themselves the right to reject any advertisement sent for publication.

IMPORTANT TO INVENTORS.

AMERICAN AND FOREIGN PATENT SOLICITORS.—Messrs. MUNN & CO., Proprietors of the SCIENTIFIC AMERICAN, continue to procure Patents for Inventors in the United States and all foreign countries on the most liberal terms. Our experience is of thirteen years' standing, and our facilities are unequalled by any other Agency in the world. The long experience we have had in preparing Specifications and Drawings has rendered us perfectly conversant with the mode of doing business at the United States Patent Office, and with most of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawing and description to this office.

Consultation may be had with the firm between nine and four o'clock, daily, at their PRINCIPAL OFFICE, No. 37 Park-row, New York. We have also established a BRANCH OFFICE in the CITY OF WASHINGTON, on the CORNER OF F AND SEVENTH STREETS, opposite the United States Patent Office. This office is under the general superintendence of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington, having business at the Patent Office, are cordially invited to call at our office.

We are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business we have Offices at Nos. 166 Chancery Lane, London; 29 Boulevard St. Martin, Paris, and 20 Rue des Eperonniers, Brussels. We think we may safely say that three-fourths of all the European Patents secured to American citizens are procured through our Agency.

Inventors will do well to bear in mind that the English law does not limit the issue of Patents to Inventors. Any one can take out Patent there.

A pamphlet of information concerning the proper course to be pursued in obtaining Patents through our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. We also furnish a Circular of information about Foreign Patents.

The annexed letters from the last two Commissioners of Patents we commend to the perusal of all persons interested in obtaining Patents:—

Messrs. MUNN & Co. —I take pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE came through your hands. I have no doubt that the public confidence thus indicated has been fully deserved, as I have always observed, in all our intercourse with the Office, a marked degree of promptness, skill, and fidelity to the interests of your employers. Yours, very truly,

CHAS. MASON.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the following very gratifying testimonial:—

Messrs. Munn & Co. —It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and I doubt not, justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully,

Your obedient servant, J. HOLT.

Communications and remitances should be addressed to MUNN & COMPANY, No. 37 Park-row, New York.

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FARMERS, READ THIS.—"THE FARMERS' OWN PAPER."—THE GENESSEE FARMER, a Monthly Journal of Agriculture and Horticulture.

AMERICAN RAILWAY TIMES—ESTABLISHED IN 1849.—Devoted to the Construction, Operation, Management and Finances of Railways; Machinery, Civil and Mechanical Engineering, Railway Law, Iron Manufacture, Movements of Capital, Money and Stock Market, &c.

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UNITED STATES ARMORY, SPRINGFIELD, May 3, 1854.—F. K. SIBLEY, Esq.—Dear Sir: Having used your Emery and Crucis Cloth for about two years, we can recommend it as being superior, more uniform and durable than any other kind that we have used at this Armory, being an excellent article for finishing both iron and brass. Yours respectfully, E. J. ALLIN, Master Armorer.

We, the undersigned, cheerfully concur in the above statement. MAJOR P. V. HAGNER, Frankfort Arsenal, Pa. J. G. BENTON, Captain Ordnance, West Point. Manufacture, Auburnville, Mass. Send for samples. Sold by S. C. HILLS, No. 12 Platt-street, New York.

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"OLD DOMINION" COFFEE AND TEA-POTS. English and French Patents for Sale.—The undersigned having secured Letters Patent in England and France on the "Old Dominion" Coffee and Tea-pots, to offer for sale the entire right of manufacture in these countries. These patents were obtained through Messrs. Morse & Co., of New York, and are in all respects valid. The opportunity here presented for the establishment in England and France of a new manufacture is a rare one, and certain to yield a large return to any enterprising capitalist. The intrinsic excellence of the article, its extensive sale in this country, and its almost world-wide popularity, give to the patents in England and France a real value, and ensure a quick introduction, a rapid demand and a large sale. Duplicates of dies, presses, &c., used in the manufacture of the "Old Dominion" Coffee and Tea-pots, will be furnished on the purchase of the patents if desired, at a small advance beyond cost, and all required information be given as to the production and sale. The English and French patents will be sold together or separate as may be desired. Address ARTHUR BURNHAM & GILROY, Nos. 117 and 119 South Tenth-street, Philadelphia, or WAITE & SENNER, Fredericksburg, Va., joint owners of the English and French patents on the "Old Dominion" Coffee and Tea-pots. 2 4

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SEVENTEENTH EXHIBITION OF THE OHIO MECHANICS' INSTITUTE.—For the Promotion of Industrial Arts.—The Committee on Exhibition respectfully announce that the 17th Exhibition of the Institute will be opened in Pike's Opera House, in the city of Cincinnati, on THURSDAY, SEPT. 1, 1854, and continue for three weeks. In behalf of the members of the Institute, the Committee cordially invite all Manufacturers, Mechanics, Artists, Inventors, and others to contribute specimens of their skill, ingenuity and taste to the exhibition. For circulars, rules, regulations and blank applications for space, &c., address Mr. JOHN B. HEICH, Clerk of the Ohio Mechanics' Institute, Cincinnati, O. 1 3

WOODWORTH'S PATENT PLANING MACHINES, of every description and kind, at reduced prices, very low for cash, at the old stand, No. 57 Pearl-street, Brooklyn, N. Y. Send for a Circular of styles and prices. Address J. H. LESTER, Brooklyn, N. Y. I am also manufacturing and selling as good Shuttle Sewing Machines, under legal rights, as was ever offered to the public, and for less money. For samples of Sewing and Siderial of Price, address J. H. LESTER, No. 483 Broadway, New York. 1 6

MORRIS' PATENT WOOD-BENDING MACHINERY For Ship, Boat, Furniture, Frames, Handles, Frames, and Carriage Timbers; exerts a compressing force unequalled for advantage in operation and effect. Built by LANE & BODLEY, Cincinnati, Ohio. 2 21

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PAGE'S LIME KILN (PATENTED 1854-57-58) Will burn 100 lbs. lime with 2 1/2 cords of wood or 1 1/2 tons of coal in 24 hours. Coal not mixed with stone. It will burn all lime rock, marl or shell. Kils for sale by C. D. PAGE, Patentee, Rochester, N. Y. 2 10

MESSEURS LES INVENTEURS—AVIS IMPORTANT.—Les inventeurs non familiers avec la langue Anglaise, et qui préféreraient nous communiquer leurs inventions en Français, peuvent nous adresser dans leur langue native. Envoyez nous un dessin et une description concise pour notre examen. Toutes communications seront reçues en confiance. MUNN & CO., Scientific American Office, No. 37 Park-row, New York.

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