

TO CORRESPONDENTS.

L. M. C., of C. W.—A steam pump of the description you speak of, and with its qualities, is desirable but the only true test of its effective economy is experiment.

J. A. D., of Fla.—We cannot consent to do any such thing, we have learned the folly of believing that such advice is rendered from disinterested motives.

A. B. K., of Canada—We can find only one patent issued to A. N. Henderson; but it is for a different purpose. There are numerous patents in this country for setting logs, called "self-setting," and we presume some are in use.

S. H., of Mass.—As soon as a final determination is made in your case we shall advise you. No alterations can now be made in the model under the same fee.

M. R., of Me.—You have entirely overlooked one fact, that is, "velocity;" surface pressure is not the only calculation to be made; the velocity and pressure must enter into computation.

C. B., of Ohio—The method you suggest for ventilating railroad cars has been before proposed; we doubt its patentability, as substantially the same plan has been secured to a Mr. Heckrote, of Maryland.

P. S., of N. B.—There are no patents in the name Hargus or Kendal, for candle making. We presume they have no patents for their processes.

M. W. S., of Mass.—The keeping of the stone wet is not the difficulty at all, nor was that mentioned to be the difficulty, for it would not answer to keep the stone always wet; the ink, in that case, as you see, could not be applied.

W. R., of R. I.—The engravings of your patent door will be inserted in our next number.

J. T. P., of Mass.—Your papers have been forwarded to the Patent Office, and you may look for the issue in about two months.

H. W. C., of Mass.—Your diagrams are in the hands of the engraver, and will be done this week.

S. L., of Maine.—To build a vault cheap and fire-proof, make the walls of rough stone, plastered with fire-proof cement, and make the roof of iron, with Hyatt's lights.

W. P., of Mich.—The centrifugal force of the earth does not affect the waters of any river, any more than the motion of the earth on its axis affects the motion of our bodies.

M. K., of Mass.—Your ideas about ventilating cars is not new; the same proposition is advanced in the notice of Law's invention found on page 340, this volume Sci. Am.; it has often been submitted as the best plan for the purpose.

C. W. G., of Mass.—We have now a drawing in our possession embracing the same device for ventilating cars, as is proposed by you. It could not be patented.

Mechanics' Institute, Ohio—A railroad car brake, under the entire control of the engineer, and operated upon by steam, was projected some years ago by Robert Stephenson, of England.

J. H., of Ohio—The subject of car ventilation is now attracting much attention, and it is likely some good may result from it. For the benefit of yourself and many others, we deem it proper to state that trunks with bell-mouths, for taking in air, and wind tubes passing over or under trains, to receive air, either by a funnel-shaped mouth or by the application of a blower, are old and well known.

V. P. K., of N. Y.—Wherein do you gain anything over the plan represented by Mr. Paine? The idea appears to be similar. He says his plan works well practically.

J. W. Stuart, of Plattville, Wis., wishes information in regard to presses and grinders for manufacturing linseed oil. We are unable to answer his inquiries; perhaps some of our readers may.

D. M. D., of Pa.—We should think your plan a good one, and we request you to send us a small model and description of it.

J. F. H., of N. Y.—The law will allow you to take a patent for your own invention, because none but the original inventor can make application. We think the mode of temperingsprings is generally understood.

H. J., of Pa.—We are engaged in the examination of the invention, and will soon report to you.

G. H., of Albany—In 1782, the Marquis De Joffrie, constructed a steamboat at Lyons, France, and employed paddles on an endless chain. It was not successful. In 1826, this invention was revived by a Mr. Palmer, of the Royal Mint.

E. C. H., of Ohio—We have examined your improved File for Documents, and think it new. We have never seen anything of the kind before, and regard it as useful.

H. & R., of N. H.—If you wish an engraving published, please send by express the Letters Patent, and when we get through with them, they will be returned.

E. G. F., of Halifax—We regret that we are unable to furnish the information desired by Mr. Potts, and know of no person to whom we can refer him.

W. C., of Me.—A patent was issued on the 19th of August last for a Register for omnibus drivers; you will find the claim on page 398 Vol. 6, Sci. Am.

D. B., of N. J.—So far as the passing of the heated products into the boiler is concerned, we have to say, that the plan has been proposed to us before, but there are practical difficulties in the way of its application.

Money received on account of Patent Office business for the week ending Saturday, July 31:

L. P. & W. F. D., of N. Y., \$10; A. H., of S. C., \$25; C. B., of N. Y., \$30; C. P., of N. Y., \$20; E. S., Jr., of Ct., \$20; M. J., of N. Y., \$30; W. N. C., of N. Y., \$30; J. T. & Sons, of N. Y., \$600; H. W., of Vt., \$10; B. & B., of Ct., \$25; J. P. W., of Ct., \$50; I. T. P., of Mass., \$25; J. D., of N. Y., \$20; I. P. B., of Ga., \$65; C. & B., of N. Y., \$20.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 31:

E. S., Jr., of Ct.; C. P., of N. Y.; M. R., of Me.; J. D., of N. Y.; J. W., of Pa.; B. & B., of Ct.

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 121-2 cts. per copy.

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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.

TO BRIDGE BUILDERS—WANTED, an experienced Bridge Builder, to take the building of the Plank Road Bridge over the Sallaposa River, near Montgomery, Alabama.

CHILD & TAITER, Worcester, Mass., Builders of Daniel's Planers, with Read's feed motion, which gives the advantage of planing both ways, and of running slow or fast, either way.

IMPORTANT TO SOAP MAKERS—Letters Patent of the United States having been issued to Wm. McCord on the 27th of July, for a valuable improvement in Soap, all manufacturers, venders, and users are hereby cautioned against the use of Kaolin, or other equivalent aluminous minerals, combined with ammonia, as they will, by so doing, infringe this patent, and subject themselves to prosecution.

TO CARPENTERS, MILLWRIGHTS, FRAMERS, AND OTHERS—The advertiser will communicate by mail to persons residing in any part of the United States, his complete system of Beveling Braces, and giving them their exact length, without using figures, or a draught or bevel, and without even measuring their length, and in less time than by the old methods.

SHERRY & BYRAM'S AMERICAN CLOCKS, FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c. REGULATORS FOR JEWELLERS, and other styles, designed for Banks, Offices, etc., also Astronomical Clocks.

At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world.—[Scientific American.]

Mr. Byram is a rare mechanical genius. [Jour. of Commerce. 41 7eow*]

IRON FOUNDERS MATERIALS—viz.: good American Pig Iron—grey, mottled and white; No. 1 Scotch Pig Iron, of favorite brands. Pulverized Sea Coal, Anthracite Charcoal, Soapstone, and Black Lead Facings.

DIG IRON MANUFACTURED WITHOUT A BLAST—Persons taking an interest in this matter, or desiring to participate in bringing this new process to perfection, will please to address the subscriber, post-paid.

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.

A SITUATION IS WANTED—By a man, as an engineer, who is well acquainted with constructing Steam Engines of the various patterns, and most approved styles in use at the present day.

PATENT DRAWING BOARDS, 23 by 29 inches; with scales of degrees in inches, minutely divided. Also paper fastener attached, and T. rule. Complete for \$10.

GWYNNE & SHEFFIELD, Manufacturers of Stave Machinery, Urbana, Ohio.—Our machine for slack work, called the Mowrey Stave Cutter, will cut, dress, and joint, at one operation, from the bolt of wood, in a perfect manner.

AARON KILBORN, 4 Howard street, New Haven, Ct., manufactures Steam Engines, Shafting, Presses, Fan Blowers, Lathes, Planers, Artesian Wells, Chain and Force Pumps, Pipe, Heating Apparatus for Houses, etc.

PATENT ALARM WHISTLE.—Indicators for speaking pipes, for the use of hotels, steamships, factories, store-houses, private dwellings, etc. etc. This instrument is intended to supersede the use of the bell, being more simple in its arrangement, more effective in its operation, and much less liable to get out of order.

FOR SALE—A complete set of tools for the manufacture of Spring Head Callipers and Dividers, four sizes each. To any person wishing to engage in the manufacture of such articles, an opportunity is offered for purchasing the tools at a very reasonable rate.

TO STEAM ENGINE BUILDERS, OWNERS, and Engineers.—The subscriber having taken the agency of Aschroff's Pressure Gauges, would recommend their adoption to those interested.

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.;

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 Shingle Machines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Morticing and Tenoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c.

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.

TO INVENTORS—The subscribers will enter into arrangements, on the most reasonable terms, for furnishing Drawings, Patterns, and Models, believing that they have one of the most thorough and scientific men, in that line of business, to be found in New York.

PAINTS, &c. &c.—AMERICAN Atomic Drier Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish.

CHARLES F. MANN, FULTON IRON WORKS, Below the Troy and Greenbush Railroad Depot, 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.

LATHES FOR BROOM HANDLES, Etc.—We continue to sell Allcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

1852 TO 1856.—WOODWORTH'S PATENT Planing, Tonguing, Grooving, Rabeting, 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.

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.

PATENT CAR AXLE LATHE—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 lathe, for turning and chucking tapers, cutting screws and all kinds of common job work.

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

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

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.

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 8 size slide rests.