

TO CORRESPONDENTS.

J. D., of N. Y.—It is almost unnecessary to say that we do not like to receive letters written with a pencil.

T. S. P., of Pa.—Get Bourne's Catechism of the Steam Engine, as an elementary work on the subject. Its price is only 75 cents. There is great danger in allowing the water of a boiler to fall below the fire line; an explosion takes place soon after the water is let in.

J. H., of Geo.—The holes in your sketch cannot weaken the walls seriously, but we would prefer common ventilators in the walls.

C. H. T., of L. I.—Beech boiled in oil will make excellent rollers and bearings.

A. H. K., of Vt.—The work you refer to is not authorized; we refer you to the author of the articles on Water Wheels, which are now publishing in our columns. If you pay attention to the articles, you will obtain the desired information.

G. J., of N. Y.—The pump you have is as good as any other you can get; this is our opinion.

J. M., of Ill.—Will give us pleasure to examine your astronomical clock when it is constructed.

A. G., of Maine—There are many oscillating cylinders in this city, which open and close the steam ports without the use of any slide or puppet valve, but not by the same plan as you have presented.

A. Y., of Phila.—If you get the Encyclopedia of Chemistry, published by H. C. Baird, corner of Market and Fifth streets, your city, you will find an excellent article on magnets, and tables on the expansion of metals.

J. M., of New York—Do not inhale air through any mixture of lime or charcoal, it would be dangerous for you to do so; our advice to you is breathe the air full and free; bathe your spine and chest every morning and evening, and rub dry, and you will find your health improve.

T. McK., of Phila.—You could secure the design by patent, but not by caveat. The Committee could not use the design if you had it secured—otherwise they could; but we believe the design would not effect a complete preventive of alteration.

C. G. M., of Ohio—We published two tables on log and board measuring in our last volume and Stoddard's "Ready Reckoner" contains a number of tables.

W. T. W., of S. C.—You paid for the whistle in buying your soap receipt. Cut down some good brown soap and dissolve in water containing a little soda dissolved in it; add some scented oil, mould it, and let it dry thoroughly before using. Our softest bar soap becomes very hard when well dried.

C. D., of N. J.—The Grain Drier to which we referred may now be in use, for aught we know to the contrary. We saw the model in 1848; the inventor had it in our office for some days. Steam heat, which must be applied in a case cannot be patented, as its use is old and well known, and the revolving cylinder to dry vegetables, &c., is also well known; we are doubtful of a patent being obtained.

C. A., of N. Y.—A fire of anthracite coal burns out a boiler sooner than wood, because the heat is more concentrated. Steam has been employed in furnaces, but we advise you not to try it if you wish to economize fuel.

J. S. H., of Pa.—We can furnish you with a receipt for making the stearine candles from tallow, but it requires some capital to engage in the business. The best way to make the common dip candles is to dip them as warm as possible.

N. Y., of Ohio—You are right.

R. D. T., of N. Y.—The boiler that exploded at Hartford was a cylindrical one, with flues carried high at the sides. Although frequently solicited to say more about the "Ericsson," we do not deem it proper to do so at present.

U. B. V., of Pa.—We have carefully examined the sketch and description of your alleged improvement in constructing boats, and we are of the opinion that it does not possess novelty, neither do we regard it as having any advantage over the present mode of building.

J. W., of Ohio—We do not know the name of the makers of the ear instrument, any jeweller can make one from the engraving as we published it.

R. E., of Conn.—A cement was patented in 1852, composed of one half bushel of pulverized slacked lime, one fifth of a bushel of powdered rosin mixed with water sufficient to make the whole into a stiff mortar for a water-proof cement.

A. G., of Ohio—We do not think very highly of your plan for propelling balloons. You might try it, this is the best and only way to determine its practical value.

B. F. D., of Phila.—We would prefer to use a larger single cylinder and cut off at one-third the stroke. You are right respecting the benefits to be obtained from a hot jacket surrounding the cylinder, all engines should have a jacket, but this is not new; locomotives have been constructed with their cylinders placed in the smoke box.

C. A. R., of Iowa.—It is common to find runners for sleighs made with hubs so as to adapt them to wagon axles. We have frequently seen them in this city and elsewhere.

A. J. C., of Pa.—An invention for making enamel free from lead and tin was patented in 1852. The invention consists in the use of glass one part; lime or salt one-eighth. This combination is thoroughly pulverized and ground together with sufficient water to make it into a cream consistence, and then paint it on the ware with a brush, and afterwards expose it to the heat in the enameler's oven or furnace in the usual way.

A. W. A., of —.—Communications not accompanied with the name of the writer are not attended to. We must know with whom we are doing business.

D. P., of N. Y.—We do not think there is any patentable feature in your improved tubular rail. We have sketches of the same kind of a rail in our possession.

C. R. D., of Pa.—There does not appear to be the slightest novelty in your alleged improvement in substitute for the crank. We look upon it as a useless contrivance for the purpose.

H. W., of Md.—You may depend upon it that if all the fans are constructed precisely alike they will blow alike. E. F. E., of Phila.—You would see our comments in our last number. We are happy to hear of your useful improvements. The pencil you speak of has one defect which we could point out. We shall be happy to receive your communications.

D. B., of N. J.—Your plan would indeed be very expensive, but some such plan ought to receive a fair trial.

J. S., of Va.—In tempering axes you must be very careful and not heat them too high. It is not so much in the water or liquid in which you dip them, as the proper temperature to which you raise them.

Money received on account of Patent Office business

for the week ending Saturday, March 25:— P. S., of N. Y., \$10; S. M. J. S., of N. Y., \$25; D. H., of Ala., \$35; W. E. D., of N. Y., \$30; R. A., of Tenn., \$25; H. B. P., of N. Y., \$10; W. D. T., of N. Y., \$300; J. J. W., of N. J., \$41; W. & W., of N. Y., \$650; E. L. S. & Co., of Ga., \$30; S. M., of N. Y., \$4.75; L. W. C., of N. Y., \$30; C. A. N., of Mass., \$20; J. U., of O., \$30; J. P., of Ky., \$50; T. M. P., of Md., \$25; T. P., of N. Y., \$50; T. G. W., of N. Y., \$30; W. S., of N. H., \$20; S. H. D., of Mich., \$22; A. N. N., of Ind., \$30; J. S. C. T., of N. Y., \$32; W. J., of N. Y., \$30; A. B. G., of Mass., \$30; H. L. T., of N. Y., \$5; W. J. C., of N. Y., \$27; W. T., of Ct., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 25:—

W. J. C., of N. Y.; J. H. W., of Ga.; J. J. W., of N. J.; T. M. P., of Md.; H. L. T., of N. Y.; W. T., of Ct.; S. H. D., of Mich.; G. S., of N. Y.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Number of lines and corresponding price. 4 lines, each insertion, 75 cts; 8 lines, each insertion, \$1 50; 12 lines, each insertion, \$2 25; 16 lines, each insertion, \$3 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.—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 by any other convenient medium. They should not be over 1 foot square in size, if possible. 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.

MUNN & CO., Scientific American Office, 128 Fulton street, New York.

CHALLENGE TO TEST BRIDGES.—Believing myself to have discovered the strongest possible form of a support for a bridge, that is the best possible arrangement of the materials in a bridge, so that the same amount of materials cannot be placed in any other form to have the same strength, and knowing that many others believe the same thing of their own inventions, and as it is a matter of much importance to the public, and can be definitely and satisfactorily settled by actual experiment, I propose to test a model of my bridge against any that may offer, for \$1000, said sum to be put up by each competitor; the trial to take place in the city of New York, as soon as practicable. Models to be of wood or iron; to be of equal length, height, and weight. Particulars to be agreed upon. Address DUDLEY BLANCHARD, Troy, N. Y.

PORTABLE FORGES AND BELLOWES.—Queen's patent. The best forge in market for Blacksmiths work, Boiler Makers, Mining, Quarrying, Shipping, Plantations, Contractors on Railroads and Public Works, Copper Smiths, Gas Fitters, &c. Also an improved Portable Lifting Furnace for Jewellers, Dentists, Chemists, &c. Both of which are constructed with sliding doors to protect the fire from wind and rain when used outdoors, and for perfect safety and free escape of smoke when used indoors. They are compact for Shipping. Circulars with particulars and prices will be forwarded upon application. Cast Iron Columns, for building constantly on hand. Jobbing, Piano, and all kind of work promptly executed. FREDERICK P. FLAGLER, Sole Manufacturer, 210 Water street, N. Y.

NOTICE.—My residence is at the National Hotel, Washington City, after the 20th of March instant, where notices of opposition to my petition for the extension of my patent must be directed. Papers that were authorized by the Commissioner of Patents to publish his notice of my petition will please give the above three insertions, and send their bills to me at Poughkeepsie, after the 22d of May next. SAM'L F. B. MORSE, 29 3

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or details of steamships, steamboats, propellers, high and low pressure engines, boilers, and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic, Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salinometers, Hudgins' Hydraulic Lifting Press, Robbins' Patent Wire Rope for hoisting and steering purposes, &c. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway, 29 4

STEARNS & CO.'s Mammoth Catalogue, containing a list of 2,000 Books and Prints, will be sent by mail gratis, to all who may order it. Address, 17 Ann st., N. Y. STEARNS & CO., Publishers, 29 4

STAVE MACHINERY.—The "Mowry Stave Cutter and Jointer Combined," which received the highest award at the Crystal Palace, is the only machine that ever undertook to joint a stave properly at the same time that it was cut and planed. The machine is simple. One man tends the machine and turns out from a solid block of wood ninety staves a minute, ready for the truss hoop. It is not only the best in use, but for slack work we challenge the world. For machines and rights in New York, apply to CHARLES MOWRY, Auburn, for machines and rights in other parts of the United States, apply to GWYNNE & SHEFFIELD, Urbana, Ohio, 29 4

WANTED.—The situation of Foreman in a Railroad or other machine shop, by one who has had much experience in designing and constructing machinery, especially locomotive and stationary engines. F. GARDNER, Boston, Mass. 29 4

SUBMARINE ARMOR.—Pumps and all necessary apparatus, with improvements on Teba's (London) and Gowen's (American) Armors and Pumps. One suit of Armor, with a three-cylinder air pump, for sale; has been used sufficiently to prove its utility and safety and ease to the operator. Superior Bank Note or Copper-plate Presses always on hand. Transfer Presses and Rolls, with other machines used by engravers; superior machinists' tools; shearing machines for prints, carpets, and other goods; spindles and ledgers furnished for other machines; bonnet and hat presses always on hand; these machines are in general use in this and other cities. Traverse card grinders, buckram molds for tips and bands, made to any shape. The machines enumerated above are made in the best manner; their reputation can be ascertained by inquiry of parties using them in this and other cities. Address G. O. HOWARD, 18th street, below Market, Philadelphia. 29 4

PIG IRON.—The subscriber has always on hand a stock of the best brands of American and Scotch Pig Iron, for sale at the lowest market price. G. O. ROBERTSON, 135 Water st., cor. Pinc, N. Y. 13 14cow

UNITED STATES PATENT OFFICE, Washington, March 14, 1854. ON THE PETITION OF Willard Darylmeck, executor of Samuel Sawyer, late of Boston, Massachusetts, deceased, praying for the extension of a patent granted to the said Samuel Sawyer on the 10th of June, 1840, for an improvement in machine for cutting corks, for seven years from the expiration of said patent, which takes place on the tenth day of June, eighteen hundred and fifty-four, (1854)—

It is ordered that the said petition be heard at the Patent Office on Monday, the 22nd of May 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 May; depositions, and other papers relied upon as testimony must be filed in the office on or before the morning of the 20th of May; the argument, if any, within ten days thereafter.

Orders, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Evening Argus, Philadelphia, Pa.; Scientific American, New York; Boston Herald, Boston, Mass.; and Inquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 25th day of May next, the day of hearing.

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 12th of May; depositions, and other papers relied upon as testimony must be filed in the office on or before the morning of the 13th of May; the arguments, if any, within ten days thereafter.

Orders, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Evening Argus, Philadelphia, Pa.; Scientific American, New York; Boston Herald, Boston, Mass.; and Inquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 22d of April next, the day of hearing.

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NEW HAVEN MANUFACTURING COMPANY.—New Haven, Conn., (successors to Scranton & Farshley) have on hand Power Planers, to plane from 3 to 12 feet; slide lathes from 6 to 18 feet long; 3 sizes of hand lathes, with and without shears; and counter shafts: universal chucks; drill presses, index plates, bolt cutters, and slide rests. The N. H. M. Company also have the right for Harrison's patent Flour and Grist Mill for the term of five years, and are prepared to furnish these superior mills at short notice. They are unequalled by any other mill, and will grind from 20 to 30 bushels per hour, and will run without heating, being self-cooling. They weigh about 1400 lbs., are of the best French burr stone, 30 inches in diameter; are snugly packed in a cast-iron frame, price of mill \$200, packing \$5. For cuts, prices, and further particulars apply post-paid, as above, or to S. C. HILLS, agent N. H. M. Co., 12 Platt st., N. Y. 22 1/2

PORTABLE STEAM ENGINES.—GEORGE VAIL & CO., Speedwell Iron Works, Morristown, N. J., EDGAN VAIL & CO., No. 4 Gold st., N. Y., are prepared to furnish Portable Steam Engines, from four to eight horse power, with locomotive boilers. These engines are recommended for their simplicity, durability, and economy, being made from the best materials and designed for practical use. They are placed on wheels convenient to be moved from place to place, and are shipped in working order for plantations, use, machinists, or others wanting small power, these engines will be found superior to any others in use. A Silver Medal was awarded at the late Fair of the American Institute, and a premium in cash of \$100 at the Maryland State Fair, held at Baltimore in October last. Persons writing us by mail will be particular to give their address in full. 21 3/4

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machinists' Tools, and Steam Engines, has now finishing off 25 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 100 lbs. These lathes have back and screw gear, rib rest, with screw feed, and the rest is so arranged that the tool can be adjusted to any point the work may require, without unfastening the tool, hence they possess all the good qualities of the job and the weight lathe; they are of the best workmanship. Price of lathe with count shaft and pulleys, \$155 each. Cuts, with full description of the lathe, can be had by addressing as above, post-paid. Also four 30 horse power vertical Steam Engines with two cylinders. Price of engine with pump and heater, \$800 cash. For particulars address as above. 19 1/2

SCREW CUTTING MACHINES, with P. W. Gates' Patent Dies.—The subscribers keep constantly on hand three sizes of the above-named machines, to wit—No. 1 machine, 10 sets dies and taps from one-half to two inches, \$350; No. 2, 8 sets dies and taps, one-half to one and a half inches, \$250; No. 3, 6 sets dies and taps, three-eighths to one inch, \$150. Cash on delivery at shop. Chicago, Ill. P. W. GATES & CO., 27 13

HUDSON MACHINE WORKS and Iron Foundry at Hudson City, N. Y., are prepared to contract for castings for railroads, bridges, buildings, gas pipes and posts, water pipe, cast-iron ornamental castings, cannon, &c. Steam engines and boilers, high and low pressure, sugar mills, Cornish lifting and forcing pumps for mines; stamps, mortars, and mining machinery; also superior hydraulic pumps and presses, and superior machinists' tools made to order. Especial attention given to the making of patent machines. Orders by mail will receive prompt attention. New York Office No. 18 Exchange Place. FREDERICK COOK & CO., F. COOK, H. McCLELLAND, 27 1/2

CLINTON FOUNDRY.—502 and 504 Water street, N. Y. A large and valuable collection of pulley and machinery Patterns; also loam and dry sand Castings, such as Printing and Steam Cylinders, Sugar Pans, Kettles, Vats, Curbs, Rollers, Pipes, &c. A general assortment of Pulleys always on hand. REANEY & McKINLEY, 26 6

C. B. HUTCHINSON'S PATENT STAVE CUTTING MACHINES.—The best in use, and applicable alike to thick and thin staves, for barrels, hogheads, &c.; also his Head Cutting and turning, and Stave Jointing and Crozing Machines. This machinery reduces the expense of manufacturing at least fifty per cent. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 27 1/2

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic, Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salinometers, Hudgins' Hydraulic Lifting Press, Robbins' Patent Wire Rope for hoisting and steering purposes, &c. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway, 20 1/2

PLANING, TONGUING AND GROOVING.—BEARDLEE'S PATENT.—Practical operation of these Machines throughout every portion of the United States, in working all kinds of wood, has proved them to be superior to any and all others. The work they produce cannot be equalled by the hand plane. They work from 100 to 200 feet, lineal measure, per minute. One machine has planed over twenty millions of feet during the last two years, and another more than twelve millions of feet of Spruce flooring in ten months. Working models can be seen at the Crystal Palace, where further information can be obtained, or of the patentee at Albany, N. Y. GEO. W. BEARDLEE, 27 1/2

SHINGLE MACHINES.—Wood's patented improvement in Shingle Machines, is unquestionably the best ever offered to the public. The undersigned is now at the West, offering rights in this machine for sale. It is a rare opportunity for a safe and profitable investment in a machine without a rival, for the purpose to which it is applied. Parties wishing to correspond with me can do so by addressing J. D. JOHNSON, 21 1/2

A. B. ELY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs Munn & Co., Scientific American. 16 1/2

WROUGHT IRON DIRECT FROM THE Ore.—The owners of James Renton's Patent are now prepared to sell rights for this most valuable invention. Apply to JAMES RENTON, Cleveland, Ohio, or to A. H. BROWN, 107 Market st., Newark, N. J. 27 10

BAKER'S IMPROVED BOILER FURNACE.—As used at the Crystal Palace, orders received for Stationary, Marine or Locomotive Furnaces on this plan, and also for the rights for towns, counties, or States; certificates can be shown of furnaces in use for stationary, marine, and locomotive furnaces, with saving from 30 to 50 per cent. in fuel. J. AMORY, 25 1/2 General Agent, 28 State st., Boston, Mass.

MCALLISTER & BROTHER.—Opticians and dealers in mathematical and optical instruments, No. 48 Chesnut st., Philadelphia, Pa.—at the old stand established in 1793 by John McAllister, Senr., Mathematical instruments separate and in cases, Tape Measures, Spectacles, Spy Glasses, Microscopes, Thermometers, Salometers, Hydrometers, Magic Lanterns, &c. &c. Our illustrated and priced catalogue are furnished on application, and will be sent by mail free of charge. 10 25

DRINK WORKS, Norristown, Pa. The subscribers build and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every description. 41 1/2