

TO CORRESPONDENTS.

T. J. B., of Tenn.—We believe that such an improvement as that you speak of is patentable.
H. S. W., of Ohio—The application of clock-work to operate a cradle is not new; two different arrangements for the purpose have been illustrated in our paper; Walker's cradle is capital—we can speak from experience, having used it with advantage and profit on two occasions. We should not be induced, on any consideration, to part with it for the present, as it is in daily use. There is nothing patentable in your plan.
E. C. L., of Conn.—Your arrangement for a stove is not patentable in our opinion; it is a simple plan and might operate well.
B. A. R., of Geo.—Your method of connecting rails by means of a pin cast on one to enter into a recess on the other rail, so as to dispense with the ordinary chair, is not new—the same thing has been proposed.
J. H. F., of Vt.—We have your communication in reference to the marine locomotive, and have placed it upon file: We have little faith in it.
S. J., of Me.—The plan of your rotary pump or steam engine is among the oldest known to us. Three years ago since one was in operation in this city and afterwards abandoned.
X. F. B., of N. Y.—Your plan of constructing cars so as to change the point of draught possess novelty, and we can raise no objection to it at present.
L. O., of Iowa—We do not discover any patentable feature in your plow; attaching wheels before or behind the mould board is no novelty of a patentable character. The corn planter sketch does not convey a clear idea of the invention: we cannot give an opinion without a model.
S. V. S., of Pa.—We have no printed petitions against the extension of the Woodworth Patent. By reference to the Report of the Committee on Patents, published in Vol. 7 Sci. Am., you can readily procure facts sufficient to base a good argument upon.
B. W. & W., of Ill.—A good hub mortising machine is made by Otis & Cottle, of Syracuse, N. Y. Address them.
J. G. McF., of Pa.—We will be able to tell you the price of the engraving when we see the patent, but could not at present. The only way to tell the gain of one engine over another is by a dynamometer, not otherwise, and this can be done easily; but equal quantities of steam will produce equal effects in both, all this being equal. Do not spend your money on the project—that is our candid advice.
T. S. J., of N. Y.—Your plan is not new: it has been experimented with before, and failed to produce any good effect. See page 302, Vol. 5, Sci. Am., for an illustration of an air-lift drum propeller. Your plan cannot be made to operate.
J. O. B., of Phila.—Malleable glass could no doubt be protected by a patent.
C. A. G., of Conn.—There is no recent work on the subject you speak of published.
L. W., of Vt.—We would obtain the greatest amount of power from the reciprocating engine.
F. V., of N. H.—No power would be gained by the arrangement you have described.
L. B., of Ia.—There is no such water wheel or hydraulic ram patented.
J. T. G., of Ky.—We have carefully examined the sketch of your watch escapement, and we think it is new. We have never seen anything of the kind.
J. H. R., of N. Y.—The pressure of a train of cars of 100 tons, on the Suspension Bridge at Niagara Falls, is the same when moving at any speed, but the dynamic force exerted on the bridge is greatest when the cars move fastest.
A. S. W., of C. W.—There may be many different opinions expressed in answer to your question: we would use 90 square feet of heating surface.
F. McC., of Pa.—Water lime will not answer for any but wet situations; hydraulic cement is another name for it.
P. L., of Mass.—Your plan is simply a blower to propel the vessel by air; it is not a useful plan and therefore not patentable.
C. J. F., of Ohio—We gave you our opinion respecting originality: its superiority can only be proven by experiment.
B. C., of B.—Your plan would answer for some machines, but there are other inventions that it could not cover, and the law should be general in its application.
T. & B., of C. W.—You ask for a Rule, that we cannot furnish, nor have we ever seen one that would do it; those which we find in some mechanical works are shams, and do evil. A universal chuck is for chucking concentrics and eccentrics.
C. F. C., of Boston—Make the solution thin and try again: it should not adhere so firmly as not to be separated.
O. W. B., of N. Y.—Try some gutta percha, and whiting for your ornaments; if we find a receipt to suit you, you will find it in our columns.
H. H., of Va.—We are not acquainted with the plan of Ericsson's flame engine, or we should have been happy to have given you the information.
J. P. E., of —Wire is tempered by annealing in a furnace for that purpose. We do not know the price of the looms to which you refer, but if you write to Mr. Ames, Chicopee, Mass., he will give you all the necessary information.
H. H., of Phila.—The small wheel must slide through the whole space which it is carried, minus its own circumference.
J. R. L., of Fla.—We do not see a point on which we could base a claim for your machine. We are afraid that you will find the oat meal experiment to fail in producing the anticipated results.
C. A., of Pa.—Gum elastic is reduced to a plastic state by heat; but to a liquid state by turpentine heated in a close vessel.
W. F., of Mass.—We are well aware of what the Collins steamers can do.
C. L. C., of N. J.—Useful space would be wasted by complying with your request. There are plenty of problems for the profit of young mechanics in every good work on mathematics.
R. & B., of Pa.—We are not acquainted with anything new sold to stand the test of your fires, but is as open to us that you might make bricks of coal ashes, black lead, and bone ashes, that would stand the fire.
T. R. J., Jr., of Va.—No wood ashes can be obtained in this city.
O. C., of Mich.—Both of your plans have to our knowledge been tried already.

A. B., of R. I.—Your object is no doubt a good one, but with your new additions will it not be more difficult to launch the life-boat?
Money received on account of Patent Office business for the week ending Saturday, Feb. 25:—
J. D., of Pa., \$25; A. F., of Mich., \$22; P. W. (2c.), of Mass., \$25; R. B., of N. Y., \$60; J. H. S., of Md., \$30; D. W. K., of Va., \$35; T. R., of N. Y., \$49.50; D. P., of Vt., \$50; I. W. McG., of Pa., \$60; W. R. G., of Ky., \$50; J. G. W., of L. I., \$14; W. C., of N. Y., \$30; H. T., of N. Y., \$30; S. M., of N. Y., \$50.25; J. P., of N. Y., \$35; J. P. H. N. Y., \$30; G. M. P., of Me., \$25; I. F. B., of Ga., \$100; W. W., of S. C., \$80; E. T. B., of Mo., \$30; J. D. B., of —, \$30; W. McC., of N. Y., \$10; J. B., of O., \$25.
Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Feb. 25:—
A. F., of Mich.; W. H. A., of N. Y.; J. D., of Pa.; F. L. of N. Y.; P. W., 2nd, of Mass; P. M., of N. Y.; G. M. P., of Me.; W. W., of S. C.; A. S., of O.; D. P., of Vt.; J. P., of N. Y.

ADVERTISEMENTS.

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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.
Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special 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.

EUROPEAN PATENTS.—MESSRS. MUNN & CO. pay special attention to the procuring of Patents in foreign countries, and are prepared to secure patents in all nations where Patent Laws exist. We have our own special agents in the chief European cities; this enables us to communicate directly with Patent Departments, and to save much time and expense to applicants.

THE HAND BOOK FOR THE ARTISAN, MECHANIC AND ENGINEER.—By the well-known Mechanical author, OLIVER BYRNE, is this day published by T. K. Collins, Jr., No. 6 North Sixth street, Philadelphia, Pa. It will maintain its place among the other numerous and justly valued works of this author. The work contains the arts of Polishing, Lacking, Grinding, Japanning, Staining, and Burnishing, as well as the arts of perfecting engine works and mechanical designs; the ornamenting of wood, stone, marble, glass, diamonds, iron, steel, and works in all sorts of metals and alloys, and the various abrasive processes that effect what cannot be done by cutting tools. To which is added a dictionary of apparatus, materials, and processes employed in the mechanical and useful art, for Grinding, Polishing, and Ornamenting. This work contains 32 pages, five large plates, and 185 wood engravings. Price \$5. It will be sent by mail free of postage on receipt of \$5.

PORTABLE STEAM ENGINES.—The subscriber is now prepared to supply excellent Portable Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact, say 1, 2, 3, 4, 6, 8, and 10 horse-power, suitable for printers, carpenters, farmers, planters, &c., they can be used with wood, bituminous, or hard coal; a 2 1/2 horse engine can be seen in store, it occupies a space 5 feet by 3 feet, weighs 1500 lbs., price \$240; other sizes in proportion. S. C. HILLS, 250 1/2 Broadway, Machinery Agent, 13 Platt st., N. Y.

STEAM ENGINE—50 horse-power, for sale cheap, with governors, p. mp, and cut off gear complete, in working condition, fitted on iron horizontal frame. Apply between 2 and 5 P. M., to C. MORRIS, 108 East 18th st., Third Avenue.

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, saving from 30 to 50 per cent. in fuel. AMORY, 25 1/2 General Agent, 28 State st., Boston, Mass.

J. A. FAY & CO., Worcester, Mass., Builders of Daniel's Planers, with improvements, and Matching Machines with carriage, to joint and match parallel or taper.

NORCROSS' ROTARY PLANING MACHINE.—It has been affirmed by a decision of the Supreme Court of the U. S. that the Norcross Patent does not infringe the Woodworth machine. Having obtained the above decision in my favor, I now offer to the public my machines and the right to use them. And I have no hesitation in saying that they are much superior to any other planing machine in use. I obtained medals at the Fair in Boston, and at the American Institute in New York, for the best planing in competition with the best Woodworth machines. And now that the question of infringement is settled by the highest authority, the public can have them at a fair price. They are not only the best machines ever invented, but the safest—the life of the operator is not endangered as with other machines, which consideration alone is worth four-fold what I ask for the right to use them. N. G. NORCROSS, Lowell, Mass., Feb. 11th, 1854.

GREAT IMPROVEMENT IN STEAM ENGINES.—Tremper's Patent Spherical Governor and Fuel Economizer. This Regulator and Economizer will do more work with a given amount of steam than other known modes without expensive out-of-expansion valves or other complicated fixtures, no change of motion to interfere with the most delicate work in any case, and being both a regular and steam economizer at a nominal expense: warranted to supersede by far all others, or the money returned. JOHN TREMPER, Highland Iron Works, Newburgh, N. Y.

FELTING FOR STEAM BOILERS & PIPES.—Manufactured by J. H. Bacon, Winchester, Mass., for sale by W. & J. MORRISON'S, N. 9 Maiden Lane, N. Y., and T. C. BACON & CO'S, corner of Union and North sts., Boston, Mass.

UNITED STATES PATENT OFFICE.

Washington, Feb. 23, 1854.
ON THE PETITION OF Samuel Blatchford, administrator of Orlando Jones, deceased, of Auburn, N. Y., praying for the extension of a patent granted to the said Orlando Jones, on the 30th day of April, 1846, for an improvement in the manufacture of Starch, which takes place on the 20th day of April, eighteen hundred and fifty-four.
It is ordered that the said petition be heard at the Patent Office on Monday, the 24th day of April next, at 10 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.; Pennsylvania, Philadelphia, Pa.; Scientific American, New York; Post, Boston, Massachusetts; and Enquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 24th day of April next, the day of hearing.
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.

UNITED STATES PATENT OFFICE.

Washington, February 13, 1854.
ON THE PETITION OF John N. Vrooman, of Niskayuna, New York, praying for the extension of a patent granted to him on the 15th day of April, 1840, for an improvement in floating swing bridges, for seven years from the expiration of said patent, which takes place on the fifteenth day of April, eighteen hundred and fifty-four, (1854).
It is ordered that the said petition be heard at the Patent Office on Friday, the 14th of April next, at 12 o'clock, M.; and all persons are notified to appear and show cause, if 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.; Pennsylvania, Philadelphia, Pa.; Scientific American, New York; and Enquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 14th of April next, the day of hearing.
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.

MACHINIST'S TOOLS—STEEL & STANNARD, Jersey City, N. J., have on hand, and are building constantly, Lathes, Planing Machines, Drifters, and other Tools, of a superior character; double gear heavy Drilling Machines, to take in 48 inches in diameter; general character of Tools extra heavy.

WANTED—A second-hand Steam Engine, of 10 or 15 horse-power, with all the fixtures complete. Must be but little used, and in good order. Address JOHN WHITLOCK, Birmingham, Ct.

ATKINS' SELF-RAKING REAPER.—40 of these machines were used the last harvest in grass or grain or both, with almost uniformly good success, in various different States and Canada. Twenty-six premiums, including great medals, were awarded to the reaper, and other Tools, of a superior character; double gear heavy Drilling Machines, to take in 48 inches in diameter; general character of Tools extra heavy. J. S. WRIGHT, "Prairie Farmer" Warehouse, Chicago, Ill.

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 of saving the labor of the Parties wishing to correspond with me can do so by addressing J. D. JOHNSON, 31 1/2

A. B. ELY, Counsellor at Law, 62 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs Munn & Co., Scientific American.

THE WATER-CURE JOURNAL AND HERALD OF REFORMS.—Devoted to Hydropathy, its Philosophy and Practice, to Physiology and Anatomy, with Illustrative Engravings, to Dietetics, Exercise, Clothing, Occupations, Amusements, and those Laws which govern Life and Health. Published monthly, in convenient form for binding, at one dollar a year in advance, by Fowler & Wells. "Every man, woman, and child who loves health—who desires happiness, its direct result—who wants to live while he does live," "live till he dies," and really live instead of being a mere walking corpse, should become acquainted with this Journal, and practice its precepts."—Fountain Journal.

THE AMERICAN PHRENOLOGICAL JOURNAL.—A Repository of Science, Literature, and General Intelligence; devoted to Phrenology, Physiology, Education, Psychology, Agriculture, Horticulture, Architecture, the Arts, and Sciences, and to all those Progressive Meas as which are calculated to reform, elevate, and improve mankind. Illustrated with numerous portraits and other engravings. A beautiful quarto. Published at \$1 a year in advance, by Fowler & Wells, 131 Nassau st., New York. "A Journal containing such a mass of interesting matter, devoted to the highest happiness, and interests of man, written in the clear and lively style of its practiced editors, and afforded at the 'ridiculously low price' of one dollar a year, must succeed in running up its present large circulation (50,000 copies) to a much larger figure."—(N. Y. Tribune.

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. Pine, N. Y.

THE CRESCENT FOUNDRY & MACHINE CO. Bridgeport, Conn., make to order Stationary Steam Engines from 8 to 150 horse power, large double acting Force Pumps for water works, Iron Planers, Engine Room Hoists, &c., &c. Machinery in general and all kinds of Steam Boilers. Having a large and extensive stock of mill gearing and other patterns, the accumulation of 15 years, they are prepared to furnish castings at short notice. Any order ordered from this Company will be guaranteed equal to any made in this country. They would call attention to a large lathe which they built designed for Railroad Machine shops for turning of drivers. They also make a very large and heavy lathe with screw feed, designed for Machine Shops in general. They are now making a vertical Engine of new design from 8 to 10 horse power, which will require but the small space of 4 feet square (the bed being 34 inches) and with a vertical boiler will require only 4 feet by 8 feet.

\$500 REWARD.—For an Invention to Prevent the Alteration of Bank Notes. To Chemists and others. In order to prevent the loss and annoyance occasioned by the alteration of Bank Notes either by changing the name of the Bank, or the denomination of the bills, as practiced by counterfeiters, and to procure an effectual barrier to such practices, by encouraging the invention of materials, such as ink and paper, of a nature to afford in either or in any combination of them, the desired protection—the Executive Committee of the Association of Banks for the Suppression of Counterfeiting will pay the sum of Five Hundred Dollars to any person who shall invent the best mode, in the opinion of the Committee, of accomplishing the object named. All plans to be submitted to the undersigned on or before the 25th day of March next, and to be accompanied with such explanations of the materials and processes as the party applying may be willing to disclose. Each applicant to lodge with the Treasurer of the Association, Henry M. Holbrook, Esq., for the term of three months, the sum of one hundred dollars, which shall be paid to any person who shall, during that time, after by removing and printing anew, any material portion of a bill or note prepared in accordance with the plan submitted, in such a manner that the alteration would, in the judgment of the Committee, be likely to pass unsuspected. And if, at the end of said three months, no one has been able to effect such alteration, and the Committee are satisfied that the materials proposed will stand all the tests which the present knowledge of chemistry affords, then the hundred dollars will be returned, and the reward paid over to the successful applicant, and the hundred dollars deposited by each of the other applicants to be returned to them respectively. Per order of the Executive Committee, J. M. GORDON, Secretary. Columbian Bank, Boston, Mass. Jan. 24, 1854.

NEW HAVEN MANUFACTURING COMPANY.—New Haven, Conn., (successors to Soranston & Farley) have on hand Power Planers, to plane from 3 to 12 feet wide lathes from 3 to 10 feet long; 3 and 4 hand lathes, with and without spurs; and counter shafts; universal chucks; drill presses, index plates, belt cutters, and slide rules. 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 and grinds 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 for paid, at above, or to S. C. HILLS, agent, H. M. Co., 12 Platt st., N. Y.

AMERICAN RAILROAD JOURNAL.—This Journal, the oldest in the world devoted to the Railroad interest, will hereafter contain, in addition to its usual contents, a full and comprehensive department of Railway and Mechanical Engineering, prepared under the direction of a practical engineer and mechanic—improvements in Railways, Railway Equipments, and especially in Locomotives, will be duly described and illustrated. Inventors and Improvers will find the Journal the best advertising medium, as it is taken by all Railroad Companies and Engineers in the country. Published every Saturday at No. 8 Spruce st, by JOHN H. SCHULTZ & CO., at \$6 a year in advance.

PORTABLE STEAM ENGINES.—GEORGE VAIL & CO., Speedwell Iron Works, Morristown, N. J., LOGAN VAIL & CO., No. 9 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 plantation 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 1 st. Persons writing us by mail will be particular to give their address in full.

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machinists' Tools, and Steam Engines, has now finishing up 25 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 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 size of work may require, without readjusting 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 counter shaft and pulleys, \$165 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, two cylinders, Pump of engine with pump and heater, \$800 cash. For particulars address as above.

C. B. HUTCHINSON'S PATENT STAVE CUTTING MACHINE.—The best in use, and applicable alike to pine and the 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.

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 Abernethy's Steam and Vacuum Pumps, and Newell's Medical and Surgical Comical Packing, Faber's Water Gauge, Sewall's Siphonometers, Dudgeon's Hydraulic Lifting Press, Rocking's Patent Wire Rope for hoisting and steering purposes, etc., etc. CHARLES W. COPPLAND, Consulting Engineer, 64 Broadway.

PLANING, TONGUING, AND GROOVING.—HEARDEE'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, linear measure, per minute. One machine has planed over twenty millions of feet during the last two years, 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. 115 1/2 Broadway, W. HEARDEE.

MINING MACHINERY.—Of most approved construction, furnished by FRED'K COOK & CO, Hudson Machine Works, Hudson, N. Y.

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. Also, a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. P. A. LEONARD.

M'CALLISTER & BROTHER.—Opticians and dealers in mathematical and optical instruments, No. 48 Chesnut st., Philadelphia, Pa.—at the old stand established in 1796 by John M'Callister, Senr., Mathematical instruments separate and in cases, Tape Measures, Spectacles, Eye Glasses, Microscopes, Thermometers, Salmeters, Hydrometers, Magic Lanterns, &c. Our illustrated and priced catalogue are furnished on application, and will be sent by mail free of charge.

NORRIS WORKS, Norristown, Pa. The subscribers have on hand and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every description. THOMAS, CORSON & WEST, 41 1/2.