

TO CORRESPONDENTS.

R. T. of Mass.—We do not see how your proposed regulator can operate correctly.

G. W. K. of Ill.—We do not think your horse power possesses novelty sufficient to justify an application for a patent.

J. G. E. of Ct.—Several patents now exist on weather strips. We cannot describe them all. Send sketch of yours for examination and we can soon tell you in regard to its novelty.

G. C. of Me.—We did not recollect your suggestion about operating the shuttle, but we now do. You were undoubtedly the first inventor.

C. A. of Pa.—Your bellows for regulating the speed of engines may operate very well, but we cannot see any advantage you can obtain by it over the common governor—we would prefer the latter.

J. M. of Ill.—Agitate your oil for some time with good fresh ground charcoal, then let it settle, and you will find it rendered clear and beautiful.

C. of Texas.—The idea about the glass cylinder is a good one, but we have seen glass pump cylinders employed many years ago.

A. J. S. of Pa.—Paint your twilled muslin with boiled linsed oil, and let every coat be thoroughly dry before you put on a new one.

P. H. of Mass.—The patent, when extended, is understood to be for the benefit of the inventor.

E. L. of N. Y.—The cement patent has not been issued, but an application is in the office.

S. M. of Ill.—There is nothing patentable in your apparatus for hoisting; similar devices have been employed for the same purpose.

J. B. of Mass.—The Letters Patent for your invention were sent to Providence by writing to the P. M., he will forward them to your address.

T. C. of Pa.—The device which you describe for lighting street lamps is similar to one commonly used here in dwellings for lighting up gas chandeliers.

D. H. S. of Ct.—Before purchasing a rifle you should try the three named: we have one of Sharp's, which is good; Marston's, for a breech-loading gun has no superior that we know of.

J. H. of Ill.—Why not buy a blow-pipe at once. You can find a description of the blow-pipe in Kane's Chemistry.

T. S. W. of Mass.—Melt the lead first, then add the zinc, and stir well until it is melted; but it is very difficult to make them combine perfectly.

A. P. H. of N. Y.—You can get no patent on making water wheels in separate pieces, rendering them portable, because such a principle is neither patentable nor new.

H. B. P. W. of N. Y.—Such a spring can certainly be made—yes, one twice as powerful.

W. W. H. of Phila.—For certain reasons we are considering the matter more fully.

A. H. of Pa.—We have complied with your request. J. C. of Geo.—How do you expect to obtain a sufficient supply of electricity by conductors from the earth?

J. B. C. of Ind.—The difference which you describe between your own and Mr. S.'s invention we do not regard as patentable.

M. H. R. of Mass.—Address your inquiry to Messrs. Wells & Webb, of this city, they are very extensively engaged in the supply of printers' materials.

J. B. U. Jr. of N. H.—In Vol. 7 we published an engraving of Page's Electric Engine. We have also published others, and as nothing new has lately appeared in this line we shall be unable to comply with your request: we had better examine Vol. 7.

S. H. of Pa.—We do not think you could procure a patent for the application of a new material for lining stoves instead of fire brick or soap stone.

H. P. Co. of Ct.—The two inventors should join together and file in papers signed by each. In filing a caveat a drawing and specification are necessary, no model being required.

W. M. of Miss.—Your inquiry about the boiler has been directed to Messrs. Stillman, Allen & Co. for attention, they are New York Agents.

W. E. D. of N. J.—By reference to Vol. 5, Sci. Am., you will find in the "History of Propellers and Steam Navigation," an account almost precisely like yours.

D. S. O. of Miss.—The washing apparatus referred to is made by King & Co., of this city; we will send your letter to them for attention.

A. H. of —.—If you had given us your residence we should have written you in regard to the oscillating blowing machine. It is constructed different from any other we have ever seen, and we think you can procure a patent for it. Send us a small model.

T. S. of N. Y.—More than ten years ago we saw a carriage having wheels with wire spokes; there is no patent on it—they have been used considerably.

G. M., Jr. of Ill.—Flexible or india rubber tubes are and have been in use for many years for conveying sound; they cannot be used for extensive distances, hence the superiority of the telegraph.

W. S., Jr. of Ohio—A disc for planing boards has long been known. Bramah was the first who made use of it.

J. B. B. of Ill.—The best work on high pressure engines is that of Kinnear Clark on Locomotives, which is the prince of high pressure engines. It may be, however, that you desire one which contains full and particular information on the "Mississippi Engines,"—we are sorry that we cannot refer you to such a work.

J. S. of Ky.—Give us a short analysis of the operations of the Parker Wheel, showing why it does outrun the velocity of the water. The experiments to which you refer as published, may not have been properly conducted.

W. R. M. F. of Tenn.—The center of motion on a wheel is the axis, but that is not the center of the wheel's path. It is not true about Washington ever having been in London—he never was in England.

J. C. of N. J.—Yours has been received, but is not up to the point, for platinum is employed as a substitute for copper for the negative pole, both oxygen and hydrogen are evolved. There is some evidence of oxygen giving out the electricity but not the hydrogen.

S. G. B. of Ohio.—The difference which you speak of, between the balls, is that the loadstone will not revolve the ball up an inclined plane of glass.

O. W. R. of Md.—The more hydrogen there is in any fluid, the more heat will be evolved by its combustion. Bituminous coal is just as good as anthracite, if the furnace is constructed in a proper manner for burning them.

G. W. J. of La.—The manufacture of sugar has not yet attained to perfection: there is still room for improvement, and we hope you are in the fair way of accomplishing the object you so much desire.

Money received on account of Patent Office business for the week ending Saturday, Jan. 21:—

S. P. of N. Y., \$50; C. C. of N. Y., \$125; J. H. of N. Y., \$35; O. B. of Ind., \$10; L. & L. of Iowa, \$30; J. I. of Ohio, \$25; S. B. of Ct., \$45; G. M. R. of Md., \$10; S. H. of N. Y., \$50; W. C. of N. Y., \$10; D. B. H. of S. C., \$10; D. S. of Pa., \$50; J. C. R. of N. Y., \$40; A. S. 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, Jan. 21:—

S. & C. of R. I.; D. A. H. of N. Y.; G. M. C. of N. Y.; L. & R. of N. Y.; R. & S. of N. Y.; J. Y. of Ohio; J. I. of Ohio; S. B. of Ct.; G. M. R. of Md.; D. S. of Pa.; G. W. S. of —.

A Chapter of Suggestions, &c

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 regulations of the Patent office. Price 12-2 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, none complete, but about 30 numbers in sheets, which will be sold at 50 cents per set; of Vol. 9, none previous to Jan. 1st, 1854.

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.

PATENTERS.—Remember we are always willing to execute and publish engravings of your inventions, providing they are of 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.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office. If you have questions to ask, do it in as few words as possible, and if you have some invention to describe come right to the business at the commencement of your letter, and do not fill up the best part of your sheet in making apologies for having the presumption to address us. We are always willing to impart information if we have the kind solicited.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication, anonymous letters receive no attention at this office.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 4 lines, for each insertion, 75 cts. 8 " " " " 1.50. 12 " " " " 2.25. 16 " " " " 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.

FOR SALE—140 Acres of Choice Land, situated within 1 mile of Wooster, O., on the O. and P. R. R. There is on the premises a wool factory and an set of machinery: the water power is always sufficient for one set, and for two-thirds of the year for much more.

WANTED—A Saw for Splitting Boards and Plank, self-feeding. Address GEORGE STARR, Danbury, Ct. 20 2*

1854—MICHIGAN CENTRAL R.R. LINE.—D. W. WHITING, Freight Agent for R. E. and the enormous new steamers "Plymouth" and "Western World," and also General Forwarder, will forward freight of any kind, by any mode of conveyance, to any destination, with dispatch and at the lowest rates.

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 1100 lbs.

2000 BOOKS AND PRINTS.—STEARNS & CO.'S Mammoth Catalogue of Books and Prints, will be sent GRATIS to all who may order it. It is invaluable as a work of reference. Postage on the Catalogue only 3 cts. Address STEARNS & CO., 17 Ann street, N. Y. 19*

TO PATENTEES.—Messrs. BARTOW & WOODMAN, Attorneys and Patent Agents, No. 74 Wall st., N. Y., are prepared to aid Patentees in the introduction of their inventions, they are competent for the sale of Licenses or Rights. They attend also to prosecutions in cases of infringement. Address post-paid, as above. 19*

LOCOMOTIVES FOR SALE.—Two Locomotives, Engines, and Tenders, made to order for five foot gauge (but which are not required at present as the road is not ready to receive them); 16 inch cylinder by 20 in. stroke; two pair drivers; one engine 6 feet diameter and the other 5 1/2 feet dia., outside cylinders—have a large proportion of boiler, and are expected to be economical working engines. Will be sold on very favorable terms and are now ready for delivery. For further particulars apply to CHAS. W. COPELAND, No. 64 Broadway, N. Y. 17 4*

IRON DRILLS.—Portable drills for drilling iron.—They are the most simple and convenient drill in use, having a newly invented feed motion, simple and efficient in its operation. They are for sale at the rate of 10 and weigh 80 lbs. We can recommend them as a first rate article. Price \$25. Address MUNN & CO., at this office.

MINING MACHINERY.—Of most approved construction, furnished by FRED'K COOK & CO., Hudson Machine Works, Hudson, N. Y. 15 6m

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.

CLOCK'S FOR CHURCHES, COURT HOUSES, &c.—Regulators for Astronomical purposes, Jewellers; also Time Pieces for Session Rooms, Railroad Stations, Offices, &c., which for accuracy of time and durability have proved (it is believed) equal to any made in Europe or this country. Glass Dials for Illumination, and other kinds furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, N. Y. 10cwtf

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; Mortising and Tenoning Machines; Belting; Machinery Oil, Beal's Patent Cob and Corn Mills; Burr Mill and Grindstones; Lead and Iron Pipe, &c. Letters, to be noticed, must be post-paid. 1tf ew

1854. WOODWORTH'S PATENT PLANING, TONGUING, GROOVING, RABBETING, AND MOULDING MACHINE.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price from \$150 to \$300. Two machines are at the Crystal Palace. For rights in all parts of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 18cwtf

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 Lathes built in the most substantial manner and most extensively used. 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 work ordered from this Company will be guaranteed equal to any made in this country. They would call attention to a large lathe which they build, 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 gauge (the bed being 24 by 31 inches) and with a vertical boiler will require only 4 feet by 8 feet. 18 12 1/2 m*

IRON FOUNDRERS' MATERIALS, viz: Pulverized Sea Coal, Black Lead, Soapstone, Anthracite and Charcoal Facings. Also, best imported Fire Bricks, Fire Clay, Fire Sand, and Moulding Sand, for sale by G. O. ROBERTSON, 13 18cwt 135 Water street, corner of Pine.

THE NEW YORK WEEKLY SUN—Established in 1836, is the first dollar-a-year Weekly Newspaper ever published. Independent of all political parties and cliques, sustained by all the resources of the Sun Establishment in its collections of the latest news from every part of the world, ever offering something new in the way of stories and bon-mots, reports of Inventions, Prices Current, Markets, Recipes, Marriages and Deaths, etc. It is undoubtedly the best as well as the cheapest Newspaper in the world. Nearly every number of the Weekly Sun contains one or more pictorial embellishments, which, of themselves, offer a fair equivalent for the price of subscription. The postage to any place in the State of New York is only 13 cents per year; out of the State, but in the United States, 28 cents a year. For a single copy, one year, in advance, \$1; club of 6 copies, \$5; club of 12 copies, \$10; club of 20 copies, \$15. Specimen copies sent gratis when desired. MOSES S. BEACH, Publisher, corner of Nassau and Fulton sts., New York City. 19tf

WEIGHING AND PACKING MACHINE.—This machine is particularly adapted for the weighing and packing of ground spices, coffee, teas, saleratus, cream tartar, British luster, arrow-root, sugars, prepared flour, farina, starch, cocoa, oat meal, yeast, powders, seeds, small ground herbs, or any like materials, which may require to be put in packages, from ounces to pounds. Its advantages over the old method of packing by hand, are manifest. One of these machines will, with the aid of one person, weigh accurately, and pack neatly from 50 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 machine, or sale of sectional rights, on reasonable terms. N. B. HARRIS & Co., Proprietors of the Excelsior Steam Spice Mills, Philadelphia, Pa. 12 13

EAGLE FOUNDRY.—Steam Engine and Millwright Establishment for our State. The subscriber offers for sale his well-known establishment on Gadsden's Wharf, Charleston, S. C., convenient to the river for steamboat work or shipping and receiving machinery, &c. The workshop, tools, patterns, &c., are in good order and calculated for the manufacture of all kinds of engines, railroad work, and machinery of every description. For terms, which will be made easy, and possible to be immediately applied to, apply to JAMES MCLEISH, 15 6*

BAKER'S IMPROVED STEAM BOILER FURNACE, as used at the Crystal Palace, &c. Apply to J. AMORY, 28 State st., Boston, General Agent. 11 tf

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. 21f

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 Salmometers, Judgson's Hydraulic Lifting Press, Roebing's Patent Wire Rope for hoisting and steering purposes, &c. &c. CHARLES W. COPELAND, 17 4*

THE NEW HAVEN MANUFACTURING CO.—New Haven, Conn., having purchased the entire right of H. H. H. Flour and Grain Mills, in the United States and Territories, for the term of five years, are now prepared to furnish said mills at short notice. These mills are unequalled by any other mill in use, and will grind from 20 to 30 bushels per hour of fine meal, and will run 24 hours per day, without heating, as the mills are self-cooling. They weigh from 1,400 to 1,500 lbs., of the best French burr stone, 30 inches in diameter, snugly packed in a cast-iron frame, price of mill \$200, packing \$5. Terms cash. Further particulars can be had by addressing as above, post-paid, or to S. C. HILLS, agent N. H. M. Co., 12 Platt st., N. Y. 5tf

NEW HAVEN MANUFACTURING COMPANY.—Tool Builders, New Haven, Conn. (successors to Scranton & Parshley) 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 3 size slide cuts. The Company are also manufacturing steam engines. All of the above tools are of the best quality, and are for sale at 25 per cent. less than any other tools in the market. Cut and list of prices can be had by addressing as above, post-paid. Warehouse No. 12 Platt st., New York, S. C. HILLS, Agent N. H. Manufacturing Co. 6tf

PLANING, TONGUING, AND GROOVING.—BEARDSLEE'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 alone. 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, 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. BEARDSLEE, 1tf

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

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 mechanical and manufacturing articles, and a superior quality of oak-tanned Leather Belting. P. A. LEONARD, 1tf

LOGAN, VAIL & CO., No. 9 Gold st., New York.—Agency for Geo. Vail & Co., Speedwell Iron Works, Morristown, N. J., furnish and keep on hand Portable Steam Engines of various sizes, Saw and Grist Mills, Irons, Hotchkiss's Water Wheels, Iron Water Wheels of any size, Portable Saw Mills, complete; Bogardus's celebrated Planetary Horse Powers; heating forges and castings for steamboats and rolling mills; Lathes; Drills; superior quality for machinists; Saw Gummers, Hand Drills, Tye Banders, and shafting and machinery generally. 39 ly

MALLISTER & BROTHER.—Opticians and Dealers in mathematical instruments, 43 Chesnut st., Philadelphia, Pa. Mathematical instruments, maps and in cases, Protractors, Spacing Dividers, Drawing Pens, Ivory Scales, Tape Measures, Salmometers, Spy Glasses, Microscopes, Hydrometers, &c., &c. An illustrated and priced catalogue will be sent by mail free of charge. 40 6m*

NOTICE 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 ly.* THOMAS, CORSON & WEST.

MECHANICAL DRAWINGS.—J. H. BAILEY, Mechanical or Architectural Drawings executed in all kinds of perspective. Office Tryon Row, No. 5, opposite the City Hall. 16 4*

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, 129 Fulton street, New York.