

TO CORRESPONDENTS.

H. W. Jr., of Va.—Tredgold's work on the Steam Engine is the best we know of, but it is very expensive; Scott Russell's and Lardner's are very good for cheap works.

G. R., Jr., of Pa.—The application of a movable flange to a car wheel is not new, and we doubt whether it would be of any practical value.

P. M., of Md.—Your device for fastening window sash is not patentable; Nim's patent covers essentially the same thing.

F. H. S., of Md.—We will attend to your request for an engraving of the kiln.

C. C., of Pa.—There is no novelty in your press, it is the same as Bullock's.

L. & B., of Ohio—Engravings of machinery are not admitted into our columns without having letters of reference to enable us to fully describe them. Old inventions we must avoid as much as possible; if you have anything new send it on.

E. M., of Ill.—You should, in our opinion, have received a patent; you must send for the papers yourself to the Patent Office, and get the gentlemen you mentioned to assist you.

Porter & Mercer, of Baltimore, Md., want a good machine for making wrought-iron spikes.

R. D., Sr., of Ky.—Your inventions may be very useful, but we are unable to judge from the description given. If you have not the means can you not employ some one to aid in testing them?—this we recommend you to do.

B. A. & Co., of Ohio—We cannot inform you where such a work as you want can be obtained; we presume it is an English publication.

Ch. H. R. B., of Wis.—We thank you for reminding us of our neglect in not thanking you for the five subscribers sent us at different times. We have many such valuable friends, so many in fact that we are unable to address them all personally, therefore to testify our gratitude we thank them all together.

G. M. K., of N. Y.—We were aware of a bill having been introduced into the Canadian Parliament during its last session, to reform the Patent Laws. We hope it will pass at the next session;—we have been corresponding of late with influential Canadians upon this subject. Legislation now-a-days is little to be depended upon for any thing like reform.

R. L. J., of La.—We are well aware that every improvement in the manufacture of sugar, is a blessing to our race; we hope your experiments will be successful, in a safe substitute for lead in any shape, as a purifier.

G. C., of N. Y.—Nine square feet of heating surface in a boiler is allowed for every horsepower.

B. R., of N. Y.—There is nothing patentable in your press. No name being signed to your letter it will not be preserved; we should not have answered it had we not supposed you ignorant of the rules which usually govern editorial offices, viz., to reject all unsigned communications.

E. F. W., of Conn.—For the want of time we cannot furnish the information you solicit about the chuck. We are not in the habit of taking cases for investigation, unless they bear upon pending applications for patents, or on subjects requiring public discussion. Our other duties forbid it.

J. S. W., of Iowa.—The double shovel plow seems to be a new thing, and we think well of it. The sketch of the corn planter is a poor thing, and conveys scarcely any idea of the invention. From what we understand of it we see no new feature in the arrangement.

A. B., of Ohio.—You could not use Mr. Ralston's invention without liability to pay him for the right. His claim is supposed to be good until a similar and older device is shown. Your method of separating, if new, is patentable. We will give our opinion on this point upon being furnished with a sketch and proper description.

D. D., of Ill.—No advantage can be gained from your proposed plan for converting reciprocating into rotary motion. The endless chain pump and the scraper, do not possess any thing new, but the door fastener is new, we think, we do not know of anything like it. You had better send us a model.

R. E., of Ohio—We call your attention to our list of valuable prizes offered for the largest number of subscribers. You are in a position to furnish us with a very large list, and gain for yourself a handsome prize. We hope our friends generally will not allow so good an opportunity to pass without making earnest efforts.

L. & M. T., of Wis.—No application can be considered at the Patent Office until a model, specification, and drawings are furnished, and the fee of \$30 paid.

A. D., of Mass.—Newell's Lamp has been advertised as a patent; we were aware of this, but no patent was issued until the 4th inst. Inventors should be careful about advertising their inventions as patents before letters are issued.

J. G. P. & B. L., of Mass.—Plaster of Paris may be applied to other purposes than safes without infringing the Safe Patent, but we do not believe that you could obtain a patent for your application of it.

S. E. H., of N. J.—The india rubber on the face of the brake would wear out too soon; great heat is generated by the friction.

R. A. G., of N. Y.—Overman's Metallurgy is the best published here. But there is no work that treats so fully on lead as we would like. Overman's work is published by Appleton; its price, we believe, is \$3.

W. C. A., of Mo.—Keep your m— in an ice house, or under vacuum, after being deprived of its air by an air pump.

G. M. G., of La.—The power of an engine is indeed estimated theoretically, by the bore of the cylinder, and the length of stroke; but this is with an understanding of its velocity. The actual power is estimated by the pressure of the steam on the area of piston, and its velocity.

H. C., of Ind.—There are plenty of water engines working in the manner you propose. We may illustrate some of them in future numbers.

J. F. M., of N. Y.—You cannot obtain any advantage from a Barker Mill, by allowing the water, after it leaves the arms, to strike against stationary buckets. How could you expect it?

J. S., of Geo.—We understand you about the saw. You surely cannot use a saw of your construction, having a larger radius than a circular saw, driven by band and pulley. If its advantages can be substantiated, we do not see anything in the way of securing a patent; these you understand best; it appears in a more favorable light now than it did before.

L. M., of Mass.—We have very carefully examined the sketch of your bedstead fastening. In Vol. 5, Sci. Am., you will find an engraving of Taylor's Patent, which covers the same device, therefore you cannot obtain a patent for it.

C. C., of N. Y.—We cannot undertake to investigate a point of so little value; turn your attention to something more useful—something likely to benefit yourself and the community in which you live.

R. M., of Conn.—A patent was granted in 1846 to Thaddeus Hyatt, of this city, for vault covers, composed of iron and glass in the manner described by you;—they are much in use in this city.

L. B. T., of Conn.—We do not think your project to prevent collisions foolish, but the only sure remedy is to have double tracks.

J. L., of Ky.—Twenty miles of water exercises no more pressure upon a gate, horizontally, than one mile of water; the pressure is as the height. When water acts different the laws of gravity must be suspended.

C. P. O., of R. I.—The observer of the meteor must have meant the real instant, not the rated hour.

S. McC., of S. C.—A wire rope will not, we think, answer your purpose, but if you think of trying one, write to the Trenton Iron Co., Trenton, N. J., where such ropes are made. Your expenses are indeed very great. At present we cannot tell you how to lessen them.

A. N. N., of Ind.—A self-capping gun is a new thing, without doubt; Maynard's is a self-primer. Send us a model.

C. M. S., of Mass.—Many people have a very bad habit of leaning back in chairs against any thing upon which it happens to be convenient to rest; many costly chairs are broken by this practice, and if you can adopt any device which will obviate this objection, you ought to have a patent for it. Your method is new, but we think it might be objected to as cumbersome.

J. K. W., of Ind.—We cannot give you any information about Mr. Robert's Machine not already published. He ought to answer your letter.

Unsigned Communications are rejected unless there is abundant reason to believe that the writer is ignorant of his duty in this respect. It is not at all likely that we shall make an unwarrantable use of the names of our correspondents, therefore why withhold them?

Money received on account of Patent Office business for the week ending Saturday, Oct. 8:—

J. P. H., of Ohio, \$25; H. T., of N. Y., \$200; A. H. B., of N. J., \$315.75; S. B., of Mass., \$30; W. B., of N. Y., \$250; C. R., of Ill., \$25; S. M., of Ill., \$5; O. B. J., of N. Y., \$55; A. M. G., of S. C., \$57; C. F. P., of Conn., \$30; J. B. M., of N. Y., \$20; W. H., of Wis., \$35.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 8:—

W. M. B., of Ohio; J. M., of N. Y.; H. S., of Texas; J. P. H., of Ohio; R. E., of Mich; W. H., of Wis.; A. B. J., of N. Y.; A. M. G., of S. C. (two cases); C. F. P., of Conn.; J. B. M., of N. Y.

A Chapter of Suggestions, &c.

Any subscribers who have failed to receive either No. 1, 2, or 3 of the present Volume, are requested to make application for them immediately, as those numbers are fast growing short, and it is the desire of the publishers that all subscribers shall receive every number to which they are entitled. Any irregularity in the receipt of papers by clubs, will be promptly corrected by addressing a letter to the publishers.

MISSING NUMBERS—Mail subscribers who have failed to receive some of the numbers of Vol. 8, are informed that we are able to supply them with any of the numbers, from 1 to 52, EXCEPT the following, and these we are ENTIRELY out of—Nos. 2, 4, 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 25, 26, 48, 49.

READY FOR DELIVERY—We have just received from the Binders 100 copies of Vol. 8, Scientific American, which will be sold to the first applicants at \$2.75 per volume. We also have about 50 complete sets of Volume 8, in sheets, which will be sold at the subscription price—\$2 per set. Those who apply first will stand the best chance to get their orders filled, for after the above number are sold no more can be obtained at any price.

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 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.

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 1/2 cents per copy.

BINDING.—We would suggest to those who desire to have their volumes bound, that they had better send their numbers to this office, and have them executed in a uniform style with their previous volumes. Price of binding 75 cents.

FOREIGN SUBSCRIBERS.—Our Canada and Nova Scotia patrons are solicited to compete with our citizens for the valuable prizes offered on the present volume. (It is important that all who reside out of the States should remember to send 25 cents additional to the published rates for each yearly subscriber—that amount we are obliged to pre-pay on postage.)

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, all; price, in sheets, \$2; bound, \$2.75.

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

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.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Number of lines and Price per line. 4 lines for each insertion, 75 cts. 8 lines, \$1.50. 12 lines, \$2.25. 16 lines, \$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 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.

MACHINISTS' TOOLS.—CARPENTER & PLASS are now completing another lot of their Lathes, 3 by 10 feet size, swing 1 1/2 inches; 12 feet swing 23 inches; 16 by 21 feet swing 21 inches; also upright drills of various sizes. The best recommendation for these tools is found in the fact that with the best facilities they are not able to supply the demand for them. Address corner of Elizabeth and Hester sts., or No. 46 Eldridge st., New York.

THE NEW HAVEN MANUFACTURING CO.—New Haven, Conn., having purchased the entire right of E. Harrison's Flour and Grain Mills for 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 1400 to 1500 lbs., of the best French burr stone, 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 4 1/2 size slider-steps. 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. Quits and list of prices can be had by addressing as above, post-paid. Warehouse No. 1 Platt st., New York, S. C. HILLS, Agent N. H. Manufacturing Co. 5tf

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 4 1/2 size slider-steps. 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. Quits and list of prices can be had by addressing as above, post-paid. Warehouse No. 1 Platt st., New York, S. C. HILLS, Agent N. H. Manufacturing Co. 5tf

WE WANT TO CONTRACT FOR TUBULAR Boilers from 8 to 20 horse-power. Address HALL & BOLLINGER, Fayetteville, N. C. 5 2\*

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

COCHRAN'S QUARTZ CRUSHER.—These machines having proved by practical operation at various gold mines their superiority over all others, for pulverizing Quartz Rock, are recommended with confidence to parties in want of such machinery. A machine can be seen in daily operation in this city, on application to JOHN S. BUSSING & CO., 32 Cliff street, N. Y. 4 8\*

EUREKA GOLD SEPARATOR.—This machine has been thoroughly tested by scientific and practical gold miners, and pronounced far superior to any amalgamatory yet known—an Almagator taking up but three feet square, and yet trifling power, is capable of amalgamating one ton per hour, with great ease and perfection, without any loss of quicksilver whatever. They are portable, and delivered in boxes ready for shipment. Price \$300 each. Further information can be obtained on application to JOHN S. BUSSING & CO., 32 Cliff street, N. Y. 4 8\*

NEWELL'S PATENT SAFETY LAMP AND Lamp Feeder.—A new article warranted to prevent all accidents from the use of Burning Fluid, Camphene and other explosive compounds, used for the production of light. For sale, wholesale and retail, by NEWELL, CALDWELL, & COPPIN, 28 Bromfield street, Boston, and by G. W. MCCREADY, 426 Broadway, N. Y. 4 5\*

WINNOWING MACHINES.—State, County, and Town Rights or sale of the Patent Winnowing Machines, illustrated in No. 2, Vol. 8, Scientific American. Address SAMUEL CANNY, Patentee, Ellicott's Mills, Md. 2 4\*

UNITED STATES PATENT OFFICE, Washington, Sept. 17, 1858.

ON THE PETITION of James Baldwin, of Nashua, New Hampshire, praying for the extension of a patent granted to him on the thirty-first of January, 1841, for an improvement in shuttles for weaving cloth, for seven years from the expiration of said patent, which takes place on the thirty-first day of January, eighteen hundred and fifty-four.—

It is ordered that the said petition be heard at the Patent Office on Monday, the 8th of January 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.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania, Philadelphia, Pennsylvania; Evening Post, and Scientific American, New York; Boston Post, Boston, Massachusetts; and Patriot, Concord, New Hampshire, once a week for three successive weeks previous to the second Monday of January next, the day of hearing.

CHARLES MASON, CHAMBERLAIN 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. 3 8

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 equaled 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 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. 1 tf GEO. W. BEARDSLEE.

1853. WOODWORTH'S PATENT PLANING, TONGUING, AND GROOVING 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. 1 amtf

PATENTS OF INVENTION.—ISAAC B. FUTVOYE, Patent Agent, Quebec, undertakes to procure letters patent of invention for the Province of Canada. I. B. F. will dispose of any kind of Patented Articles on Commission. 4 tf

A. B. ELY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs Munn & Co., Scientific American. 185f

LEONARD'S MACHINERY DEPOT, 109, Pearl Street, 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. 1 tf

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 Hand Mill Irons, Hotchkiss's Water Wheels, Iron Water Wheels of any size, Portable Saw Mills, complete; Bogart's celebrated Planetary Horse Powers; heavy forgings and castings for steamboats and rolling mills, Hatchell Drills of superior quality for machinists, Saw Gummers, Hand Drills, Tye Benders, and shafting and machinery generally. 39 1y

NORCROSS ROTARY PLANING MACHINE.—Decided by the Circuit Court not to infringe the Woodworth Machine—I now offer my Planing Machines at a low price; they are not surpassed by any machine as to amount or quality of work. Tonguing and grooving machines also for sale, doing one or both edges as desired; 80 machines now in operation. Address me at Lowell, Mass., N. G. NORCROSS. 40 2\*

MCCALLISTER & BROTHER.—Opticians and dealers in mathematical instruments, 48 Chestnut st., Philadelphia, Pa. Mathematical instruments separate and in cases, Protractors, Spacing Dividers, Drawing Pens, Ivory Scales, Tape Measures, Salometers, Spy Glasses, Microscopes, Hydrometers, &c., &c. An illustrated and priced catalogue will be sent by mail free of charge. 40 6m\*

VALUABLE WATER POWER FOR SALE.—Situating in Stockport, Columbia Co., N. Y., 1 1/4 miles from a depot on the Hudson River Railroad, on a never-failing stream, now estimated to be of the capacity to run 500 horse power; with all necessary machinery, and can be increased; dam built of stone 13 feet high. The improvements on one side consists in part of a building of stone and brick 118x47; over-shot wheel, nearly new, 14 feet diameter, 12 feet bucket; on the other, one of stone and wood 60x34, good over-shot wheel 14 feet diam. 7 feet bucket; with about 30 awellings. Terms accommodation; title indisputable. Possession given immediately. For particulars inquire of R. B. MONTELL of Hudson, N. Y., or H. S. VAN DECAIR on the premises. 3 6\*

PALMER'S PATENT LEG.—Manufactured by Palmer & Co., at No. 5 Burt's Block, Springfield, Mass., for New England and New York States, and 376 Chestnut street, Philadelphia, in every instance of competition in the Pairs of the various Institutes of this country, it has received the highest awards as "the best" in mechanism, usefulness, and economy. At the "World's Fair," London, 1851, in competition with thirty other varieties of artificial legs, (by the best artists in London and Paris,) it received the Prize Medal as the best. 45 10\*

NORRIS 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 1y. THOMAS, COXSON & WEST.

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. 18\*

AARON KILBORN, No. 4 Howard street, New Haven, Ct., manufacturer of Steam Engines, Boilers, &c. Noiseless Fan Blower, a superior article, for smith's work, steam engines, brass and iron foundries, and machinery in general. 51 10\*

IRON FOUNDERS' 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, 135 Water street, corner of Pine. 1 8\*

ADEN'S PATENT FAN BLOWER.—Gives a stronger blast, with less power than any other. J. B. CHICHESTER, Agent, 585 Broadway, N. Y. 2\*

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 Grooving 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. 2tf