

TO CORRESPONDENTS.

G. M. M., of Vt.—Blanchard's Patent has about ten years longer to run. There are a number of patents on machines for setting types; we have little faith in any of them.

W. N. S., of N. H.—There is a corn-husking machine on exhibition at the Crystal Palace; but from what little we have seen of it, we have not much confidence in its labor-saving qualities. We do not know the inventor's name. You neglected to pay the postage on your letter; when you ask information you should always pay the expense of obtaining it.

J. H. R., of N. C.—We cannot inform you in regard to the barrel machine. See Hutchinson's advertisement in another column.

M. M. D., of Va.—No one person has the exclusive right to make railroad spikes. There are several patented spike machines, and you are entitled to a patent for such improvements as you invent. Mr. Jackson's statement has been handed to Adams & Co., for attention. We thank you for the fine list of subscribers.

J. B. S., of Pa.—We have referred your letter to an engine builder for his attention.

J. H., of Mich.—Artificial stone is made in this city, but we do not remember the name of the maker.

J. K., of Pa.—After one year has elapsed, subsequent to a declaration of your intentions, you can secure a patent for \$30; at present it would cost you \$500 for fees. Case hardening iron is done by reducing the prussiate of potash to a paste in a little water, smearing over your article, and heating it in the fire to a dull red heat, and then dip in cold water.

W. C. B., of N. Y.—A perpetual motion caused by the expansion and contraction of mercury by atmospheric changes, is not new, and of no importance.

E. C., of N. Y.—You could not obtain a patent on a machine which has been used since 1837. You had evidently abandoned it.

A. P., of N. J.—Let us have a sketch of your improved cart wheel. We will then examine and report our opinion.

H. M., of Ohio.—Your plan of paddle blade is new, but we cannot see any advantage to be obtained by it. It will be more expensive than the common blade, and must be much easier put out of order.

S. A. C., of Ct.—We are much obliged to you. Any information about the invention and introduction of the friction match, (such a useful invention as it has proved itself to be,) is desirable.

R. D. W., of Geo.—We have received your letter with the samples of silk, which were manufactured by you in Glasgow, Scotland. The only person who conducts the manufacture of silk in our country, with whom we have conversed is Mr. Jones, of Newport, Ky. The company has some very excellent thread, handkerchiefs, and vestings in the Crystal Palace. Perhaps they would like a man like yourself; drop them a line. The firm is Jones & Wilson.

W. E. D., of Pa.—The improvement you propose in scales could not we think be patented. The principal is, the inverse of the spring dial scales now in common use; there is no patentable difference.

R. D. S., of Ky.—Send us a model of your improvements and we will examine them. The description is not clearly given.

I. T., of Ala.—We have none of the instruments mentioned in your letter for sale; they would not answer your purpose.

J. S., of N. Y.—Carefully examine the files of the Scientific American, and you will find the receipt. We cannot point to it without an examination.

C. L. R. Jr., of Ct.—Carriages moved by compressed air are not new.

D. H. Avery, Tuscaloosa, Ala., wants machinery for turning rounds and for planing plough beams; will send one of our readers inform him?

N. Y., of Ohio—You speak like one who has the good sense to admire truth by whomsoever spoken, whether it may please or not; it is a mark of the highest wisdom never to be offended at the truth. The mechanics who say that we "councilled employers to unite and frown down all attempts on the part of the employed to increase their wages," assert that which is not true; we challenge them or any man to find such remarks in the whole of the eight volumes of the Scientific American.

B. C. C., of Mass.—There is nothing new, useful, or patentable in your rotary engine, and we advise you to drop it at once.

I. T., of Ind.—"Bulkeley's Patent Steam Kiln Dryer" is a good invention. You must judge whether or not it is worth purchasing.

J. J. H., of Mich.—Your alleged improvement in sewing machines appears to be a mere change in the position of the parts, and the driving mechanism. The change is not patentable.

J. C. R., of Mich.—There are a number of machines for gathering grass seed already patented. We are glad to hear you speak so well of the Scientific American.

E. A. H., of Ill.—A pipe in a stove will admit an hundred or two hundred feet of air per minute, according to the rapidity of combustion. There is no rule with which we are acquainted for calculating the amount of air in cubic feet, that will pass through a given orifice in a stove, the heat being 1141 deg. For more particular information see page 246, Vol. 7—a long article.

R. S. P., of Va.—The standard U. S. bushel measures 2150.42 cubic inches. The old English coal measure was greater than this, as 1.03130 is to 1, but we suppose the standard measure is employed in Virginia, if not, we cannot tell what its capacity may be.

H. Van H., of N. J.—We would not like to use less than 20 horse power for three run of stones. It will require 270 lbs. of coal per hour for this amount of work, with a poor boiler, but only 180 lbs. with a good tubular boiler.

A. M. C. E., of —You cannot get a patent; get the label copy-righted as soon as possible. This is the only protection you can obtain by law. You can sell the secret to whom you please by common bargain. See some remarks on the subject on another page.

G. B. L., of N. Y.—We will endeavor to publish some information about tools for cutting ice.

R. C., of Mass.—If your invention is different from Sanford's, you can secure a patent for it. He cannot cover every means of producing a result—the combination is simply his claim.

M. B., of Ind.—The mere application of any well-known material to a new purpose, is not the subject of a patent—therefore, applying glass or porcelain to monumental purposes, does not constitute a patentable feature.

S. S. R., of Tenn.—The first thing to be done on your part is, to notify each party that you shall hold them responsible for infringing your patent—stating your opinion that they infringe upon your rights. This is preliminary to an application to the U. S. Circuit Court for an injunction.

R. C. W., of Ohio.—We have written to Mr. S. at Washington as you requested.

J. M., of Pa.—There is no novelty in attaching the saw sash directly to the piston of a steam engine. We see nothing patentable in your arrangement of it.

D. S. H., of Ill.—Bulkeley has a patent on his "Kiln Dryer." You cannot use what he claims as his invention, without rendering yourself liable. \$15 received; we are much obliged.

I. J. W. Adams, Sharps town, Md., wishes to communicate with W. C. Hughes, author of "The American Miller."

W. L. B., of Mass.—There is no novelty in a fan blower constructed with an air opening in the periphery of the case, for receiving and having a hollow shaft for discharging the air. It may work very well.

M. & N., of Mich.—No more applications for space are to be granted by the Crystal Palace Association. You are rather late for the American Institute also.

F. H. S., of Md.—You had better submit your question to Mr. Bentley, or some other practical engineer in your place. We cannot satisfactorily answer it.

H. Y. A., of Ohio.—You cannot make iron blue by oxidation. It is done by tempering, and for this purpose a paste of the prussiate of potash is used; the heat must be carefully attended to.

J. A. P., of Ala.—The best varnish for iron is red lead laid on first with a very thin coat, left to dry, then give one or two more coats. If you mean a varnish for polished iron, use common gum copal varnish; we do not know of a better, you may mix a little oil in it.

J. C., of Va.—If you are correct, then a locomotive cannot move at all; for, as you say, the cranks act only in one direction to drive the engine and train, and that their tendency is to retard the forward motion when under the axle, then, as the pressure of the steam is equal for these two opposite directions, the one must nullify the other. You will see that you have not considered the question in all its bearings. The fact is, the power acts to propel the engine equally, both when the cranks are above and below the axle.

Money received on account of Patent Office business for the week ending Saturday, Oct. 1—

J. P., of Ky., \$25; W. D., of N. Y., \$30; L. P., of Vt., D. W., of N. Y., \$40; P. and O., of N. Y., \$25; J. H. C., of N. Y., \$30; W. E. O., of L. I., \$30; D. McM., of Tenn., \$45; N. T., of N. Y., \$45; D. B. K., of O., \$35; G. J. B., of Mass., \$30; W. C., of Ga., \$10; J. R. A., of N. Y., \$30; D. A., of N. Y., \$20.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 1—

A. B. C. of Pa.; R. C. of Pa.; B. D. S., of Pa., (2 cases); P. and O., of N. Y.; D. A., of N. Y.; D. McM., of Tenn.; S. R. H., of O.; R. K., of Mass.; G. J. P., of Mass.

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 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.

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: Lines, 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 Inventors.

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 especial 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.

COCHRAN'S QUARTZ CRUSHER.—These machines having proved by practical operation at various gold mines their superiority over all others, for pulverising 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.

EUREKA GOLD SEPARATOR.—This machine has been thoroughly tested by scientific and practical gold miners, and pronounced far superior to any amalgamator yet known—an amalgamator taking up but three feet square, and very 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.

PATENTS OF INVENTION.—ISAAC R. PUTVOYE, Patent Agent, Quebec, undertakes to procure Letters Patent of Invention for the Province of Canada. I. B. F. will dispose of any kind of Patent Articles on Commission.

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, & COFFIN, 28 Broadfield street, Boston, and by G. W. MCCREARY, 426 Broadway, N. Y.

WINNOWER MACHINES.—State, County, and Town Rights or sale of the Patent Winnowing Machines, illustrated in No. 2, Vol. 9, Scientific American. Address SAMUEL CANBY, Patentee, Ellicott's Mills, Md.

UNITED STATES PATENT OFFICE.

Washington, Sept. 17, 1853. ON THE PETITION of James Baldwin, of Nashua, New Hampshire, praying for the extension of a patent granted to him on the thirty-first day of January, 1840, 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 9th 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, 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.

MACHINERY.—S. C. HILLS, No. 12 Platt-st., N. Y. dealer in Steam Engines, Boilers, Iron Plates, Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniels', and Law's Planing Machines; Dick's Presses, Punches, and Shears; Mortising and Tennoning 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. Itfeow

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 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, 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. 1 ft GEO. W. BEARDSLEE.

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

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. 11ft

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

CAUTION.—The public are hereby cautioned against purchasing or using Steam Gauges constructed on the principle of Fontain Moreau's Patent, or Bourdon's Patent, except that manufactured by the undersigned, who is owner of said patents for the United States. All infringements of said patents will be prosecuted according to law. E. H. ASHCROFT, Manufacturer of Steam and Water Gauges, No. 4 Beverly street, Boston. 14ft

NORCROSS ROTARY PLANING MACHINE.—Decided by the Circuit Court of the United States in the Woodworth Machine—now offered by Planing Machines at a low price; they are not surpassed by any machines 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. 44 2ft

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 Gauge, Faber's Water Gauge, Sewell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebing's Patent Wire Rope for hoisting and steering, &c. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 30 2ft

MCCALLISTER & BROTHER.—Opticians and dealers in mathematical instruments, 48 Chesnut st., Philadelphia, Pa. Mathematical instruments separate and in cases, Protractors, Spacing Dividers, Drawing Pens, Ivory Scales, Tape Measures, Salometers, Spy Glasses, Microscopes, Hydrometers, &c. An illustrated and priced catalogue will be sent by mail free of charge. 46 6ft

MATHEMATICAL OPTICAL INSTRUMENTS.—The subscriber begs leave to bring to the notice of the professional community, his new and extensive assortment of the above instruments, which he partly imported direct from the most celebrated makers in Europe and partly had manufactured under his own personal supervision. The undersigned would particularly invite attention to his very large and complete assortment of the justly celebrated Swiss Mathematical Drawing Instruments; for the sale of which in this country he has the sole Agency, and which he can furnish at from \$5 to \$200 per case. Orders from any part of the Union promptly executed, and price list sent if required. 36 6ft C. T. ANSLER, 224 Chestnut st., Philadelphia.

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 600 power looms with all necessary machinery, and may be increased; dam built of stone, 19 feet fall. 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 98x34, good over-shot wheel 14 feet diam. 7 feet bucket; with about 30 dwellings. Terms accommodation; title indisputable. Possession given immediately. For particulars inquire of R. B. MONNELL, of Hudson, N. Y., or H. S. VAN DE CARR on the premises. 36ft

PALMER'S PATENT LEG.—Manufactured by Palmer & Co., at No. 5 Burr's Block, Springfield, Mass., for New England and New York States, and 376 Chestnut street, Philadelphia; in every instance of competition in the Fairs 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. 48 10ft

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 ly. THOMAS, CORSON & 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. 18ft

ARON 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 10ft

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. 18ft

STEAM ENGINES AND PUMPS FOR SALE.—Two new high pressure Steam Engines, 18 inch bore of cylinder and 32 inch stroke of piston, 3 cylinder boilers to each engine 3 feet diameter and 40 feet long. Also two double acting Force Pumps, 10 inch bore and 4 feet stroke, fitted with gun metal valves, valve seats and packing. The above machinery is constructed of the best material and workmanship. Address BIRKBECK & PROCTER, Engineers and Machinists, No. 16 Arch street, Philadelphia. 14ft

ALDEN'S PATENT FAN BLOWER.—Gives a stronger blast, with less power than any other. J. B. CHICHESTER, Agent, 555 Broadway, N. Y. 26ft

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 Tarning, and Save 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. 24ft