

TO CORRESPONDENTS.

F. D. H., of Ga.—The best way for you to dispose of the invention will be for you to send us your letters patent, and we will get up nice engravings of it and publish in the Scientific American, providing the invention has not been illustrated in any other journal.

N. E., of Miss.—Some time since we remember reading the notice you refer to, but have not since thought of it. We saw at once the utter stupidity of the affair, and did not deem it worthy of notice.

R. A., of Va.—In No. 8, of our last volume, we published an engraving of Ericsson's Caloric engine, and expressed our opinion respecting it. Our confidence has not increased a particle since, notwithstanding the steamship which is being built. If it proves better than steam, we shall be ready to acknowledge it. The character of the men engaged in it are, so far as we know, above suspicion.

W. W., of Ky.—You seem not to understand the rules which govern the conduct of editors when the correspondents fail to attach their names to communications; besides this objection, we would not publish your article for any money—we spurn the idea of receiving pay for inserting articles, and especially where the sentiments are calculated to inflict an unjust injury upon another's interests.

H. H., of Conn.—The reason why some people are near-sighted is because the cornea of the eye is so prominent, that the image of distant objects is formed before it reaches the retina, and is therefore not distinctly seen. You will find this subject familiarly illustrated in Brewer's Catechism, designed for pupils.

R. E., of C. W.—Don't send us any Canada stamps, we have no earthly use for them. Send Canada bills, they are good enough.

G. E., of Ohio.—We have carefully examined your invention, and find it not patentable. Throckmorton's patent on planing machines covers the point claimed in yours.

C. S. F., of Iowa.—You had better address W. & B. Douglas, of Middletown, Conn., for such information as you require respecting the ram.

C. R., of N. O.—Yours has just come to hand.

J. C., of Ohio.—Yours will appear next week.

J. C., of N. Y.—You have not explained fully the mode by which your cam operates the slide rod. You are aware that the cam is employed on the Mississippi steamboats. We like the link motion, for slide valves.

W. W. B., of Md.—We have older records of the Reeper than the one you have sent, but we are much obliged to you, and will have occasion to use the information at some future time.

T. J. A., of Ill.—Simply attaching weights to the sails of wind-mills could not be made the subject matter of a patent.

W. D. B., of Mass.—Your device for rolling metal we think is new and patentable.

A. M., of Vt.—A Small's patent, of 1848, covers your invention, therefore you cannot obtain a patent.

J. P. A., of Ky.—The stuff for keeping the polished iron parts of a steam engine bright, is oil, and frequent rubbing up, nothing else. You can keep polished iron bright, by using copal varnish; put on a thin coat. This varnish, we suppose, you can get in any drug store in Louisville.

W. M., of N. Y.—Yours is not a patentable subject—if you published a book you could copyright the plan and tables, or you could copyright the tables. The discovery is a philosophical principle, for which a patent could not be obtained.

S. R., of N. Y.—The article "Effects of Steam on Timber," which you see going the rounds of some papers, as original, is taken, word for word, from an old article in the Sci. Am.

T. H. R., of Ala.—Francis Wolle, of Bethlehem, Pa., is the inventor of a machine for making paper bags, you would do well to address him for a description, or you will probably see it illustrated in the Sci. Am. some time during the present volume.

H. O. R., of N. Y.—The work upon telegraphs is in our library, you can examine it at any time; it is in the French language.

S. S. B., of Va.—There is no such rule as the one you speak of, for calculating the horse power of a water wheel by its size. An overshot wheel 20 feet in diameter if it is propelled by 6 cubic feet of water per second, is only 9-10 horse power; if it consumes 20 cubic feet per second it is a little over 30 horse power. The power of a fall is according to its height, and the quantity of water discharged in a given time. Multiply the height in feet by the number of cubic feet discharged per minute, that by 62 1/2, and divide by 33,000, and you have the nominal horse power; the actual will be more than 25 per cent. less.

R. C., of Ct.—Visitors at the fair of the American Institute are pouring in from all parts of the country. The exhibition is worth your attention as there are many improvements in railroad machinery and apparatus.

R. E., of Pa.—We have delayed our answer to your inquiry respecting the brake until we could examine the one you refer to. We find the model on Exhibition at the Fair embraces the same arrangement, precisely, as yours, but you need not be alarmed for neither of them are new. We find that the same device was patented in 1847.

G. H. D., of Ct.—It is singular that so old an inventor—one who has taken out so many patents—should not have discovered earlier that such claims were good for nothing.

C. C. L., of Mass.—Yours will be answered at a very early date.

R. V., of Ky.—Your plan for an improved brick press appears to be good; it is patentable.

R. R., of N. Y.—Your communication will be attended to in due season. You see the right point.

Z. S. D., of Mass.—The thoroughly dried sawdust should protect wrought iron; we have never seen it tried, but believe it will answer; charcoal dust will do it.

S. A. L., of S. C.—You have been effectually anticipated in your ideas, for the truth of this see number 48, last volume. This, you see, contradicts the statements that you have "read the Scientific American carefully for two years, and it contains nothing like it."

F. B. H., of Ind.—Before we received your letter of the 1st inst., we had transmitted your specification and drawings to the Patent Office, therefore you will be obliged to wait the issue of the patent before having an engraving appear in our columns. We think a patent will be issued, but cannot tell when. Tell your friend that his carriage wheel is old. Take our advice and remain easy until you learn the result of your present application before putting more "irons in the fire." You have ingenuity, take care and not confuse it by too many ideas. Your letter we will preserve for further reference.

Money received on account of Patent Office business for the week ending Saturday, Oct. 9:—

L. N. L., of Mass., \$30; D. & S., of N. H., \$45; R. H. T., of S. C., \$300; F. J. P., of N. Y., \$20; J. E., of R. I., \$10; R. L., of N. Y., \$55; E. Van C., of Pa., \$5; R. C. B., of Ill., \$200; J. S., of Miss., \$30; G. B. D., of Mass., \$30; A. M., of Pa., \$35; J. B. A., of S. C., \$55; J. G. P., of R. I., \$30; L. B. B., of Vt., \$25; M. & E., of —, \$40; F. & B., of N. Y., \$58; E. L. G., of N. J., \$30; S. R., of N. Y., \$20; C. W. G., of N. Y., \$20; C. G., of N. Y., \$60; E. M., of N. Y., \$30; H. & L., of Ct., \$25; C. W. C., of Ohio, \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 9:—

A. F. P., of Mass.; D. & S., of N. H.; J. G., of N. Y.; J. J., of N. J.; J. E., of R. I.; S. & R., of N. Y.; L. B., of Vt.; M. De LaC., of Spain; F. C. G., of N. Y., (2 cases)

Cheap Postage—Important to subscribers.

The amended postage law, as enacted by the last Congress, having gone into effect on the 1st inst., we take occasion to make an extract from one of the sections, from which our mail patrons will see that the item of postage on the Scientific American will in future be less by one-half than formerly.

"Any periodical or newspaper, under three ounces in weight, can be sent to any part of the United States for one cent, and if paid quarterly or yearly in advance, either at the office of mailing or delivery, will be transmitted by the mails for half a cent each number; that is, for a daily paper, the postage will be only thirty nine cents a quarter, or one dollar and nine cents a year; a weekly paper or periodical will be charged only six and a half cents a quarter, or twenty-six cents a year. If the weight does not exceed an ounce and a half, it may be circulated in the State where published at half of the above rates."

According to the above extract, subscribers to the Scientific American, residing in the State of New York will receive their papers by mail at thirteen cents per annum, instead of thirteen cents per quarter as formerly, thus reducing the cost of the Scientific American thirty-nine cents per annum to mail subscribers—an item worth saving.

Subscribers in the most remote part of the country will be required to pay but six and a half cents per quarter in future for the Scientific American, and although some postmasters may insist upon higher rates, our patrons should resist the attempt to extort money from them by any pretended construction of the more obscure points in the statute which tends to such an end.

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 Volumes 1, 2 and 3—none.
Of Volume 4, about 20 Nos; price 50 cts.
Of Volume 5, all but 4 numbers, price, in sheets, \$1.
Of Volume 6, all; price in sheets, \$2; bound, \$2.75.
Of Vol. 7, all; do do do

Patent Claims.

Persons desiring the claims 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 one dollar as fee for copying.

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 regulation of the Patent Office. Price 12 1/2 cts. per copy.

AN ARCHITECT wishes to obtain a pupil to learn the art and science of Architecture; terms, &c., will be made known on application by letter (post-paid) to EDSON & ENGELBERT, Architects, No. 85 Nassau st., N. Y. 5 2*

A. B. ELY, Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13tf

ADVERTISEMENTS.

Terms of Advertising.

Table with 3 columns: Lines, Price per line, Total price. 4 lines for each insertion - 50cts. 8 lines - \$1.00. 12 lines - \$1.50. 16 lines - \$2.00.

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 especial attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

\$500—SEVEN HORSE POWER.—We have for sale a first rate 7 horse-power Engine and Boiler, fitted with governor, pump, fly-wheel, safety valve, grate bars, etc., all complete to be set immediately to running. The cylinder of the engine is six inches bore, and the stroke of the piston is 16 inches. The engine is attached to a cast-iron bed plate, and is one of Mann's best make. The boiler is an upright, 6 feet high, and 3 feet in diameter, composed of 50 flues, having all the connecting pipes complete and ready to be set up and attached to the engine in half an hour's time. The engine and boiler at the price above named (\$500) is astonishingly cheap for its worth, and we hope soon to receive an order for them. Boxed and shipped for \$500. Address MUNN & CO., Scientific American Office.

JOSEPH ADAMS & SONS, Patent Felly Machine.—We are the authorized agents for disposing machines and rights for running the same. This machine is simple in construction and easily kept in repair, and cutting at the rate of 70 fellyes per hour (without saws). All orders for machines and rights for counties, of State, will be promptly attended to, address J. COLTON, 113 Chambers st., N. Y. N. B.—Patent rights or patented articles disposed of in the city and through our agents in the country for a small commission. 5 2*

STEAM ENGINES FOR SALE.—One 1 1/2 horse-power, and one six horse-power; both are now nearly finished in the best manner, and can be delivered in a few days. COBB, MASON & HILL, North Point Foundry and Machine Works, Jersey City, N. J. N. B.—Engines built to order; also, all other kinds of Machinery furnished at the shortest notice. 1*

CHAS. W. COPELAND, Consulting and Mechanical Engineer, Surveyor of Steam Machinery, &c., No. 64 Broadway, N. Y., superintends the construction of steam vessels, steam engines, and machinery, of every description; specifications and contracts prepared; also general plans and drawings in detail furnished. Steam engines surveyed and valued, and condition reported. Mr. C. also acts as agent for the purchase and sale of steam vessels, steam engines, boilers, &c. Steam and Vacuum Gauges, Indicators, Sewell's Salinometers, etc., on sale. 50 5eow*

IMPORTANT TO IRON FOUNDRIES.—The Galvanic Alloy Manufacturing Co., Nos. 401, 403, and 405 Cherry st., N. Y., will furnish the Aerostatic Fan Blower at \$55, and with patent fitting at \$65, that produce sufficient blast for the largest cupola, melting 3 and 4 tons of iron per hour; taking less than one half the power of those now in use, that cost from \$80 to \$100. The wings, being only about an inch in width (planned upon entirely new and mathematical principles), produce double the blast with half the power of other blowers. Warranted in all cases, or they may be returned and the money refunded. 38 eowtf.

WANTED.—A Wagon and Buggy maker. For particulars, address R. Y. RUSSELL, Newnan, Coweta Co., Ga. 4 3*

BAILEY'S SELF-CENTERING LATHE.—The best in America for Chair Stuff, Wagon Thills, Rake, Fork, Hoe, and Broom Handles. Persons wishing this Lathe, warranted to do twice the work of any other lathe, by applying to L. A. SPALDING, Lockport, N. Y., can be supplied. The following certificate of Birge & Brother, extensive chair manufacturers, at Troy, N. Y., is to the point:— "After making a perfect and thorough trial of Bailey's Self-Centering and Self-Adjusting Lathe, we can cheerfully recommend it as in every way calculated to perform its work in the best manner—as it is the best Lathe we have ever used in our manufactory; and having used many different kinds, we feel safe in asserting that it is probably the best machine of the kind in use. BIRGE & BROTHER, Francis Miller, Lucius Foot, Turners for B. & B." 3 3m

IRON FOUNDRY MATERIALS.—viz.: American hard white and grey Pig Iron; No. 1 Scotch Pig Iron; Iron and Brass Moulding Sand; Fire Sand and Fire Clay; Core Sand and Flour. English and Scotch patent Fire Bricks—plain, arch, and circular, for cupolas. Pulverized Soapstone and Black Lead. Sea Coal, Anthracite and Charcoal Foundry Facings of approved quality, always on hand and for sale by G. O. ROBERTSON, office 135 Water street, (corner of Pine), N. Y. 3 6*

1852 TO 1856.—WOODWORTH'S PATENT Planing, Tongueing, Grooving, Rabeting, and Moulding Machines.—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 \$760. For rights in the unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. lamtf

BEARDSLEE'S PATENT PLANING MACHINE, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the above-named foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 23tf

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; Morticing 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

BLACK LEAD CRUCIBLES, and all kinds of melting pots, of superior quality, made to order and warranted equal to any of the kind made in the United States, by D. H. PURINTON, Somerset, Mass. All orders promptly fulfilled. 2 10*

WOODWORTH PLANING MACHINES, on hand and manufactured to order, of superior quality, at reduced prices, warranted perfect. Also steam engines and other machinery, by JOHN H. LESTER, 57 Pearly street, Brooklyn, L. I. 3 4*

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. 45tf P. A. LEONARD.

PATENT CAR AXLE LATHE—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 lbs., price \$600. I have also for sale my patent engine screw lathe, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1,500 lbs., price \$225. The above lathe warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 39 26*

PAINTS, &c. &c.—American Atomic Drier Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., Painters and Chemists. 1tf

LATHES FOR BROOM HANDLES, &c.—We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch and work as smoothly as on a straight line—and does excellent work. Sold without frames for the low price of \$25—boxed and shipped with directions for setting up. Address (post-paid) MUNN & CO. At this Office.

HARRISON'S PATENT GRIST MILL.—The best in the world. There are hundreds of the mills now in use, which are justly acknowledged to be unequalled by any others, for large flouring establishments as well as for farmers' use, to be driven by horse-power. They will grind more grain with a given amount of power, will heat the meal far less, and require but half the sharpening of other mills. Patent rights for California and the Western States, and the mills also, are for sale at the corner of Court and Union streets, New Haven, Ct., by EDWARD HARRISON. 1 6*

DRAWING BOARDS.—Patent; 23 by 29 inches, with extensive Scales and Sheet Fastener. Descriptive Circulars sent on application; \$10 for Board and T Rule. Sent by Express. Address, post-paid, CHAMBERLIN & CO., Pittsfield, Mass. 50tf

FALES & GAIL (Successors to TRACY & FALES), RAILROAD CAR MANUFACTURERS—Grove Works, Hartford, Connecticut. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 1tf

IMPORTANT TO SOAP MAKERS.—Letters Patent of the United States having been issued to Wm. McCord on the 27th of July, for a valuable improvement in Soap, all manufacturers, vendors, and users are hereby cautioned against the use of Kaolin, or other equivalent aluminous minerals combined with ammonia, as they will, by so doing, infringe this patent, and subject themselves to prosecution. All the necessary fixtures for making 2000 lbs. per day, will cost not to exceed \$75; two persons only required to attend the manufacture. Rights to manufacture this the most valuable soap, are offered for sale on reasonable terms. Apply to WM. McCORD, 141 Sullivan st., N. Y. 47tf

A RARE CHANCE—TO MACHINISTS.—Asignee's sale of Machinists' Tools: these tools have been in use about four months, and consist of Planers, Lathes, Drill Presses, and Universal Chucks, which are for sale from 20 to 25 per cent. less than cost. For particulars address (post-paid) JOHN PARSHLEY, New Haven, Ct. 49tf

LOGAN VAIL & CO., No. 9 Gold street, New York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogard's Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or wrought iron. 11 1y

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 rests. The Co. 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. Cuts 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. Man'g Co. 45tf