

TO CORRESPONDENTS.

D. L. W., of Mass.—We have never examined your locality; but we do not believe it is a place for artesian wells. We do not know of a man of the qualities you desire. Cannot you collect surface water into reservoirs? A few acres will do wonders, if you collect it carefully. No artesian wells are bored except in submerged basins. There are artesian wells in Arkansas and Alabama. Marengo county, Ala., is a favorite place for them.

W. W., of Phila.—We are not acquainted with any person who sells the starch gum. We do not know of a single pound being manufactured here; if there is any made, it must be but a short time since it was commenced. It is our opinion that the French have a secret mode of making the gum paste, from malt; there are some particulars about it, with which we are unacquainted at present. All that we have seen has been imported. Messrs. Partridge, Druggists, Cliff street, this city, will inform you about the prices, &c. We will give you more information about it again.

J. M. P., of Tenn.—Your plan of the saw-mill carriage appears to be a very excellent improvement; but we do not see the advantage of the improvement on the water wheel over the suspension wheel.—Would you be pleased to point out the advantage.

J. R. K., of Geo.—Danforth's Patent was issued April 21, 1842. The claim has no reference to the band whatever; yet, in the description we find that the spindles or bobbins, are turned by bands running on a horizontal drum. This description cannot affect any good and new improvement which you may make.

A. H., of Ill.—The magnets would not reduce the friction of a journal so as to make it of the least value, and it would only waste time and money to try any more experiments.

H. W. G., of N. C.—We do not as yet know the exact proportions of the artificial stone fronts; it is kept secret by the craft. We have for a long time endeavored to get full and complete information on the subject; and are still trying to do so. We know that the fronts are durable, perfectly so; and we know the quality, but not the quantity of materials. Whenever we obtain complete information about it, you shall have it with great pleasure.

J. M. K., of N. Y.—We have never seen, nor do we know of the fluted concave being combined with the fluted roller; but two fluted rollers have been employed for the same purpose; it would not, perhaps, be prudent to notice it before application was made. W. McG., of N. Y.—Bottlers have been made with a large and a small safety valve. Your plan is good but not patentable.

T. M., of Pa.—We do not discover anything new in the sketch of your alleged improvement in spindles for carriage axles. A model sent to this office in 1849, by an inventor residing in this State, is believed to possess all the novelty embraced in yours.

T. J. B., of Tenn.—Humphrey's Journal is now published at 189 Broadway. We have received several numbers of it.

D. D., of Ill.—You could not patent a car seat upon the plan sketched in your letter of the 4th inst. Exercising chairs have long been in use, embracing the same principle; besides, we have had the same plan frequently offered for our consideration.

W. S. J., of R. I.—The brake appears to be new. Its effectiveness can be ascertained only by experiment. We do not, however, see where you can gain anything.

M. M., of Vt.—Elastic sticking plasters for closing up wounds, have long been known and used. It is not new to make a mill-saw with teeth on both edges. Wm. Kumbel, 33 Ferry-street, this city, is an extensive manufacturer of belting.

I. W. M., of Vt.—It is quite probable that your lath cutting machine is new. We should be furnished with a sketch and description of it, to enable us to form judgment. You can send a model, if you prefer to do so.

J. J., of Ct.—You are aware that ventilating buckets are in common use for breast wheels. Yours is different from the common plan; as the communication in the usual way is between the bottom and top of the bucket and the inside of the lining. You make one bucket communicate with another.

G. B. D., of N. S.—The only way of proving superiority of one kind of steam boiler over another is by experiment; the one that uses least fuel, all other things being equal, is the best. There have been rotating boilers—and one is illustrated in our Fifth Volume: there have been, also, steam boilers kept at a high heat, with small quantities of water injected at once, but all have failed to compete, in the long run, with tubular boilers, which are our favorites.

J. C., of O.—We shall be pleased to hear of your experiments. They will interest some of our readers.

J. H., of ————We do not know the price of such a work as you want. Messrs. Appleton & Co., 200 Broadway, deal in Scientific publications, and might supply you.

W. L., of N. Y.—We remember to have had the same plan for sidings presented before. We have forgotten the inventor's name, a patent, however, has never been granted, neither do we think one can be obtained.

J. B., of N. Y.—Inventions can be patented in this country at any period subsequent to the grant of letters patent in England. The patent, however, must take date from its issue in England. The application must be made in the name of the inventor in all cases.

H. L. F. G., of Mich.—We could publish an engraving in one or two numbers after the receipt of the model.

R. H. F., of Ill.—We do conceive that either of your plans are patentable. Placing balls inside of a drum is an old device to accomplish the object you propose, but for other purposes. We never heard of any patent for it being solicited.

C. G. W., of N. O.—We would like to receive a specimen of Toncalcar Gum. It must be quite hard to answer the purpose.

W. R. H., of N. C.—You will see something for you about hydraulic rams in another page.

J. P. N., of N. Y.—We do not remember to have seen a safety boot constructed like yours.

D. T., of Galt.—Yours of the 14th inst. came safe to hand. We thank you for the fine list of subscribers.

C. C., of N. J.—We can scarcely reconcile our judgment to the belief that your furnace is patentable. We have not seen Dr. Nott's since, but if our memory serves us we think he has substantially anticipated your invention. The specification we read in manuscript some four years since.

S. W., of N. Y.—We have never seen an instrument like yours, nor do we know of the like ever having been used or described anywhere. We presume that it is new and patentable.

J. J. W., of Ill.—There is no work published that can give you the information about dying, warping, and weaving, that you want. We are positive about this.

T. Y., of Iowa.—Your alleged improvement in rotary engines is substantially the same as the one patented by G. M. Alsop, in 1835. Since this date we have seen several modifications of the same principle.

G. W., of Pa.—We thank you for the highly expressed compliments to the Sci. Am., contained in yours of the 11th inst. We are greatly indebted to many of our subscribers for similar marks of approbation.

J. C. S., of Pa.—We have no doubt of your securing a patent for the useful application of the curve, but you must set it out perfectly clear in your specification. You certainly have a right to it.

C. W. W., of O.—Yours has just been received, and will appear next week.

Money received on account of Patent Office business for the week ending Saturday, Sept. 18:—

S. & R., of N. Y., \$30; S. & S., of N. Y., \$25; T. B. S., of N. J., \$10; C. N. T., of Mass., \$35; J. W. M., of N. H., \$8; R. K., of N. Y., \$50; H. W., of Vt., \$30; E. S. & Co., of Conn., \$350; S. T., of Mass., \$27; M. C., of Ga., \$25; J. B., of Ill., \$55; T. H. D., of N. H., \$10; P. P. R. H., of N. Y., \$50; E. O., of N. Y., \$25; S. R. & H., of N. Y., \$44.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 18:—

W. R., of N. Y.; J. W. M., of N. H.; S. & S., of N. Y.; H. W., of Vt.; T. B. S., of N. J.; D. & C. W. G., of N. Y.; E. O., of N. Y.; P. P. R. H., of N. Y.; M. C., of Ga.

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 12-2 cts. per copy.

ADVERTISEMENTS.

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A GREAT BARGAIN.—The celebrated outlines of American Engineering, bound, complete, \$10, containing 17 finely executed Plates, of the best specimens of American Machinery. The Plates measure 24x30, with 18 folio pages of descriptive text, and reliable calculations; being well worth \$100. The subscribers are desirous of placing this eminent national work in the hands of every mechanic—which is the reason of the above extremely low price. Immediate orders respectfully solicited. H. S. SAMUELS 8 Park-place, Publisher. 1*

EZRA BIRCHARD, of Yorkville, Wisconsin, has been appointed by Wm. McCord, and his assigns, Agent for the sale of McCORD'S Patent Kain Soap, in and for the States of Illinois, Michigan and Wisconsin. Particular information can be had on application to WM. McCORD, 141 Sullivan street, New York. 2*

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.

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. PURINGTON, Somerset, Mass. All orders promptly fulfilled. 210*

ENGINE AND BOILER for sale, seven-horse power; the Engine is new, the Boiler has been used about one year—both are in excellent condition. We will put it on ship board for \$500. Address MUNN & CO.

FALES & GRAY (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. 41tf

A. B. ELY, Counsellor at Law, 48 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13tf

ARTESIAN WELLS—Thomson's patented improvement on the Chinese system of boring Artesian Wells, in search of water or minerals, having been practically tested, capitalists, land proprietors, miners, and others, are informed that rights are for sale for any part of the United States. The machines can be had of the patentee, and are warranted; they come cheaper than the usual boring apparatus, are more manageable, bore more rapidly, with but little increase of labor, however deep, and will go to depths much greater than the present system admits of. The cleaning is done in a fraction of the usual time. Communications will be answered cheerfully and working models sent on receipt of \$5. JOHN THOMPSON, 504* 75 Otter st., Kensington, Philadelphia.

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, venders, 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.—Assignee'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 PARSLEY, New Haven, Ct. 49tf

LATHES FOR BROOM HANDLES, Etc.—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.

REVOLUTIONARY PENSIONS AND BOUNTY LAND CLAIMS prosecuted by F. E. HASSLER, Washington, D. C. Refers to Hon. W. R. King, U. S. Senate; Hon. A. P. Butler, U. S. Senate; Prof. A. P. Bache, U. S. Coast Survey; Hon. Lynn Boyd, Hon. J. D. Doty, Hon. T. Jenkins—House of Representatives. Land Warrants for sale, and Patents for land in the State of Illinois and the Western country generally, bought and sold. 12*

A MACHINE SHOP FOR SALE.—Complete, containing three lathes, three vises and benches and one forge; with the above are all necessary small tools of every kind for doing a light machine business, together with shafting, belting, and pulleys. All new, running by steam power, and in good order; they will be sold together and at a fair price. Also twenty of the Lowe regulating valves, with the patterns for casting the same. For particulars apply to C. H. ANDRUS, 47 Dey st., rear. 12*

CENTRAL NEW YORK RIFLE CLUB.—The Members of this Club will meet according to rule, at Albany, on Monday the 4th day of October, 1852, for the purpose of shooting their Annual Match. The lovers of the Rifle and field shooting, are respectfully requested to attend. Information of the rendezvous and shooting ground can be obtained by applying to S. Van Valtenburgh, Beaver st., Albany. JOHN R. CHAPMAN, Prest. Oneida Lake, Madison Co., N. Y. N. B.—Marksmen are reminded that a Rule was adopted at the last Club Shoot, "That all the strings should be made at targets, made of stiff pasteboard, for the purpose of lessening the liability to accident. 12*

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 mill is also, for sale at the corner of Court and Union streets, New Haven, Ct., by 13* EDWARD HARRISON.

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, Kases, 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

MECHANICS' INSTITUTE CLASSES.—Classes in Architecture, Mechanical, Ornamental, and Perspective Drawing; also in Ornamental and Figure Modelling, Geometry, and Algebra, will be commenced at the Rooms of the Institute, corner of Bowery and Division st., on Monday evening, Oct 4th, 1852. The course will consist of 20 lessons. Terms, \$4; to Members of the Institute \$1 per term less. Further information may be obtained from the Secretary, at the Rooms from 10 A. M. to 10 P. M. JOHN T. FISHER, PETER GRANT, JOHN LONDON—Committee. 515*

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 1500 lbs., price \$225. The above lathe warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 39 26*

TO INVENTORS.—The subscribers will enter into arrangements, on the most reasonable terms, for furnishing Drawings, Patterns, and Models, believing that they have one of the most thorough and scientific men, in that line of business, to be found in New York. Their object is merely to fill up time, they not having sufficient work of their own to keep him in steady employment, and do not like to have him leave for fear they could not obtain his services when required. Apply at Dunlop's Manufacturing Emporium, No. 36 Gold street. 41 13* FRASER & EVERITT.

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

JOHN W. GRIFFITHS—Ship Builder and Marine Architect, 658 Fourth st., N. Y., furnishes models and draughts of all description of vessels, with the computation of stability, capacity, displacement, and necessary amount of impulsion. Propelling power located and proportionally adapted to the form of the vessel, whether sailing or steaming. Mr. G. also superintends the construction of vessels, and may be consulted upon all subjects pertaining to the various departments of the science or practice of ship building. Draughts forwarded by letter to all parts of the world, and to any desired scale; all letters must be post-paid. 51 3*

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

CAUTION—Whereas, certain persons are manufacturing and selling Fan Blast Separators, or Winnowing Machines, which infringe upon my patent, which was issued on the 8th day of April, 1851. This, therefore, is to caution all persons against purchasing any right or privileges of any person whose machine conflicts with mine, as set forth in my Letters Patent, whether their machines have been patented subsequent to mine, or not covered by Letters Patent, as I shall hold every trespasser of my rights to strict account. Any person holding powers of attorney from me, which have not been legally recorded, are cautioned against disposing of territorial rights, or manufacturing and selling machines, and the public are likewise cautioned against purchasing rights of such persons. J. L. BOOTH, Patentee, Cayuga Falls, Ohio. 50 5

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, Bogardus' 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 of wrought iron. 11 1y

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 6 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. Manf'g Co. 45tf

TO STEAM ENGINE BUILDERS, OWNERS, and Engineers.—The subscriber having taken the agency of Aschroft's Pressure Gauges, would recommend their adoption to those interested. They have but lately been introduced into this country, but have been applied to many of our first-class river and ocean steamers, and on many railroads, on all of which from their simplicity, accuracy, and non-liability to derangement, they have given the utmost satisfaction. CHAS. W. COPPELAND, Consulting Engineer, 64 Broadway, N. Y. 50 5*