

TO CORRESPONDENTS.

J. T. of Ky.—Your obliging favor of the 1st came safe, and each subscriber's name we have duly entered. The sewing machine could not be obtained without the payment of the right to use it. We presume the owners would sell you one upon reasonable terms.

H. B. of Wis.—Yours has been received; you are investigating a deep and intricate question; we are much obliged to you for the interest you take in the Sci. Am.

E. P. of ————The idea conveyed in the article on steam, ether, &c., is the same exactly as you express it; we believe it will be so understood, it expresses the "vis viva;" it is the same with a locomotive as a steamboat.

E. F. of N. H.—We do not know anything about the French invention for telegraphing musical sounds. Many strange inventions spring out at the expense of the French nation the snail telegraph for instance.

N. B. L. Ind.—We have never seen a shelling cylinder constructed of sectional plates sustained by spiral springs, and we incline to the opinion that it is new and patentable.

W. M., of Geo.—Almost every milk cart in our city contains such an arrangement for holding up the lines as represented in your sketch. It could not be patented.

J. H., of O.—We have seen rifle barrels with the bore precisely the same as you describe.

A. R., of Mass.—Mr. T.'s invention is very dissimilar to yours, and will not conflict with your application at all.

S. A. L., of N. H.—We cannot answer your questions.

J. F. M., of Phila.—Your interests shall not be neglected.

W. T., of N. Y.—Hon. J. P. Kennedy is the Secretary of the Navy; office Washington, D. C.

S. M., of N. Y.—We transmitted the models of your inventions by the Erie Railroad Express on the 9th inst.

A. C., of Conn.—We have no information about Davidson's scheme not contained in his communication in No. 45. We presume he is not yet ready to publish engravings. \$2 received.

F. M., of N. H.—Perhaps the application of the spring in a nice manner, may contribute to the advantage of the engine. Still the power exerted by it must be small. Practice is of course more to be regarded than mere theory.

G. H. P., of O.—Cast-iron cornices are very much in use in this city, and the mere applying them to a new use would not be patentable.

W. S., of O.—The same difference of opinion exists among painters here in respect to the preparation, as probably it does with you.

E. M., of Mass.—For the box of excellent grapes received from you, accept our hearty thanks. In quality we think they excel the Catawbas, and they approach the imported grape nearer than any domestic grapes we have ever tasted.

A. D. B., of Ga.—We have received your letter covering \$40, and will ship the slide rest in a very few days.

G. W. of N. H.—We understand your invention exactly, and did at the time we replied to you two years ago. Your invention is not the same as that of Mr. B.'s and we question if he gets a patent.

A. M. G., of S. C.—We think we did not misunderstand your plan of car axle. Your suggestions respecting it throw no new light upon the subject.

L. C. B., of Md.—A plan like yours for supplying a current of air to a bedstead, is in use in this city; we would notice it but for its antiquity.

H. C., of Ct.—We do not perceive anything new in your cut-off; in the Practical Mechanic's Journal, Glasgow, Vol. 2 or 3, you will find a cut-off substantially the same as yours.

T. R. K., of Ga.—For your list of subscribers accept our thanks. We do not know anything about the company you refer to, but should think they might have a good invention; we have never seen their apparatus.

Times, N. Y.—The printing telegraph is House's invention, and their principal office is at 21 Wall st., this city.

R. B., of N. Y.—We cannot see any principle in your pistol on which a claim could be secured.

T. W., of Ky.—Your description is not very clear, we simply understand it to be a combination of air with water forced by a steam engine. We cannot see any advantage to be gained, but a loss, or do you mean to have a water engine constructed like the low pressure steam engine? such engines are not uncommon.

W. B., of N. Y.—In volume 5, Sci. Am., we published a history of propellers, in which is an endless chain of propellers like yours; examine it and judge for yourself.

J. B., of N. H.—A good and simple preventive for incrustations in boilers would be valuable in this country. Your father, however, must try his composition with more than one kind of water, for it is not the filthiest water which forms the worst incrustations. The worst water is clear and sparkling.

C. H. A., of N. Y.—Air is 816 times lighter than water, therefore its buoyant force is equal to that, deducting the weight of the vessel in which it is contained. Air expands from three-eighths of its bulk, from 32 deg. to 212 deg., therefore the elastic force of the air heated would increase as 3-8ths of its bulk, but you could not form a vacuum by any amount of cold.

Money received on account of Patent Office business for the two weeks ending Saturday, Sept. 11:—

T. & M., of N. H., \$50; M. & B., of N. Y., \$30; A. H., of Ky., \$750; E. F., of Ct., \$20; M. C., of Ga., \$30; J. D. C., of N. Y., \$30; J. S., of Ohio, \$30; J. G., of N. Y., \$30; T. C. T., of N. J., \$20; J. E., of R. I., \$25; W. J. B., of S. C., \$55; W. H., of Mass., \$55; J. J., of N. J., \$30; R. C. B., of N. Y., \$30; E. Van C., of Pa., \$25; J. W. M., of N. Y., \$12; O. D. D., of N. Y., \$350; E. O., of N. Y., \$25; P. W. LaR., of N. Y., \$30; A. F. P., of Mass., \$55; H. G., Jr., of N. Y., \$30; J. W., of N. Y., \$30; H. W. W., of N. Y., \$30; C. W. G., of N. Y., \$10; W. W. & Co., of Ct., \$275; F. I. P., of N. Y., \$30; H. & B., of Ohio, \$30; W. M., of Ga., \$14; J. F. J., of N. C., \$55; N. B., of R. I., \$350; S. I., of N. Y., \$30; J. S., of Mass., \$30; E. W. N., of Mass., \$20; S. M. P., of N. Y., \$55; J. D. W., of Pa., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the two weeks ending Saturday, Sept. 11:

J. G., of O.; W. H., of Mass.; E. F. of Conn.; J. & W. W., of N. Y.; J. F. M., of Phila.; J. W. M., of N. Y.; W. M., of Ga.; G. W., of R. I.; W. M., of N. Y.; E. W. N., of Mass.; J. D. W., of Pa.

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.

ADVERTISEMENTS.

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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.

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. W. ANDREWS, 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 EDWARD HARRISON. 13*

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. 47*

WARRANTED CAST STEEL.—About 30 tons assorted sizes, warranted quality cast-steel, to close the sale of a special lot; it is particularly adapted to machinists use, and will be sold in lots of 500 lbs. and upwards, at 33 1-3 per cent. less than cost or price of the best imported. Amongst the sizes are square, 1-2, 5 8, 7-8, 1 1-8, 1 1-2, and c. flat. 1 by 3 8, 1 3 8 by 1-2, 1 1-2 by 1-2, 1 1-2 by 3-4, 1 1-4 by 5 8. Also small and large sizes: also rolled 1 1-8 by No 4, 1 1-4 by No 4 wire gauge. Round 5-16, 7-16, 9-16, 5-8; it is well worth the attention of consumers. JOHN W. QUINCY, 81 John st. 49 4*

A RARE CHANCE—TO MACHINISTS.—A signee'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. 49*

IRON FOUNDERS MATERIALS.—viz.: good American Pig Iron—grey, mottled and white; No. 1 Scotch Pig Iron, of favorite brands. Pulverized Sea Coal, Anthracite Charcoal, Soapstone, and Black Lead Facings. English and Scotch patent Fire Bricks—plain, arch, and circular, for cupolas. Fire Sand and Fire Clay. Iron and brass moulding sand; Core sand and flour; always on hand and for sale by G. O. ROBERTSON, 135 Water street (corner of Pine), N. Y. 47 6*

PATENT ALARM WHISTLE.—Indicators for speaking pipes, for the use of hotels, steamships, factories, store-houses, private dwellings, etc. etc. This instrument is intended to supersede the use of the bell, being more simple in its arrangement, more effective in its operation, and much less liable to get out of order, being directly connected with the speaking pipe, it requires no lengthy wires in its use, which are continually getting out of order or breaking. There have been several hundreds of them fitted up in this city and vicinity with the greatest success. They can be attached to pipes, which are already fitted up without damage to buildings, and for much less than the cost of a bell, and warranted to operate. The public are invited to call and examine them at the factory of the patentees. WOOLCOCK & OSTRANDER, 57 Ann street, New York. 40 13

State and County Rights for sale. 40 13

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. 50*

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

SHERRY & BYRAM'S AMERICAN CLOCKS, SHERBY CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c. REGULATORS FOR JEWELLERS, and other styles, designed for Banks, Offices, etc., also Astronomical Clocks. The undersigned have introduced such improvements in the construction of their clocks, as to be enabled to warrant them the most durable and accurate (highest grade) to vary less than two minutes in twelve months, of any others now in use. Glass dials for illumination furnished at short notice. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island, N. Y. "At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world."—[Scientific American. "Mr. Byram is a rare mechanical genius." [Jour. of Commerce. 41 Teow*

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. 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 eowf.

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 abovesaid 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

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 Actuary, at the Rooms, from 10 A. M. to 10 P. M. JOHN T. FISHER, PETER GRANT, JOHN LOUDON—Committee. 51 5*

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*

1852 TO 1856.—WOODWORTH'S PATENT Planing, Tonguing, 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

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

TRACY & FALES, RAILROAD CAR MANUFACTORY—Grove Works, Hartford, Conn. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 26tf

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 & 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 8 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. Mfg 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. COPELAND, Consulting Engineer, 64 Broadway, N. Y. 50 6*