

TO CORRESPONDENTS.

C. F., of Iowa—Instead of charging you a dollar for the information you solicit, we have credited you for 6 months subscription, and sent a back number of the paper containing just the information you solicit: hope every one of the 26 copies you will receive may be worth a dollar to you.

W. E. L., of Ohio—We duly received and filed your letter respecting the "syphon;" our opinion has not been changed. We have no knowledge of the publication to which you refer. You should submit your inquiry to some lawyer in your place; it does not come within our province.

C. L., Jr., of Ct.—It would depend entirely on your management of the affair after it was patented; many fortunes have been made on worthless patents, while meritorious inventions have lain dormant for want of energy and capital to introduce them to the public. The pecuniary worth of most patents lies in the ability of the managers of them.

M. O. R., of St. Louis—A set of volume 6 was sent to you, addressed to the care of Mr. Byrne, on the 7th ult.

S. C. M., of Ind.—We sent your Letters Patent and wood engravings to you by Express on the 29th ult. \$12 received.

P. P. of N. H., and F. L. A., of Ct.—Your letters were both received by one mail, each asking the same question; in reply to them we would state that the plan of arranging brakes to act upon the upper periphery of the wheel, using the weight of the car as part of the applied power, has been very often suggested to us.

L. & L., of N. Y.—We must have the first use of the cuts or we cannot publish them at all. As soon as you send us a better drawing and a more full description, accompanied with \$12, we shall prepare the engravings, and will insert them soon.

S. T. T., of N. Y.—Your plan for dressing mill stones has been tried but found not to be practicable.

A. C. R., of Ohio—We do not remember what your communication was, but presume, if you sent one here and it was not inserted, it was thought not of sufficient interest to pay for the room it would occupy.

E. F., of N. J.—Your chemical balance appears to be new, useful and patentable.

S. B., of Ind.—You spoke too late, your specification and drawings have been filed in the office several weeks. We have nothing to get up an engraving from at present.

H. G. H., of N. Y.—Messrs. Birbeck, in this city, make good boilers, as do Messrs. Pease & Murphy; in fact they are built in all our large engineering establishments. Initial horse-power is a very indefinite term. Your engine of 8 inch bore and 2 feet stroke will be about 5 1-5 horse-power, that is, at 21 lbs. pressure.

D. S., Jr., of N. H.—The machine you describe would probably infringe upon the Blanchard Lathe.

W. B., of Pa.—The best flue for wet tan bark is a round one, but the form of flue will not remove the evil of the vapor.

A. B., of Pa.—Your plan for a grain separator, we think, is new and patentable, but the butter preserver, we think, lacks sufficient novelty. The pump matter we will take into consideration.

C. W. B., of Ohio.—The diagram you sent of the harvesting machine, we believe illustrates a new invention, but we have our doubts of its being as good as many others. Your plan for taking and registering votes was illustrated in Vol. 2, Sci. Am.

C. E. W., of S. C.—We have a new edition of the Patent Laws in press, which will be out and ready for mailing in a few days. The coating of lightning conductors with block tin would be no more patentable than covering a sheet iron dish with the same material, and thus rendering it a "tin pan."

J. A. H., of Pa., and J. M. J., of Ky.—We have none of the back numbers previous to January, with which we can furnish you.

Owing to the illness of one of our number, who usually attends to corresponding with inventors, we are necessarily obliged to let several letters remain over unanswered until next week.

Money received on account of Patent Office business for the week ending Saturday, Jan. 29:

J. T., of Ill., \$55; V. P. & B. K., of N. Y., \$10; F. H., of Pa., \$55; E. St. J., of N. Y., \$55; M. B. D., of Pa., \$39; H. G. R., of Tenn., \$50; L. D., of N. Y., \$30; J. M. H., of N. Y., \$30; W. T. B. M., of N. Y., \$100; W. T. of N. Y., \$20; J. C. S., of Pa., \$30; E. G. H., of N. Y., \$30; J. S., of Ky., \$10; E. C. B., of N. Y., \$25; J. B. D., of N. Y., \$30; W. C., of Mass., \$30; H. W. W., of N. Y., \$20; E. B. W., of N. H., \$30; B. B., of N. Y., \$25; S. & L., of Mass., \$30; J. McM., of Ky., \$20; G. S., of N. Y., \$45.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Jan. 29:

S. & L., of Mass; F. F., of Mo.; J. C. S., of Pa.; W. T., of N. Y.; W. McB., of Ohio; B. B., of N. Y.; J. McM., of Ky.; G. R., of N. Y.; J. K., of N. J.; E. B. W., of N. H.; G. S., of N. Y.

A Chapter of Suggestions, &c.

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 four numbers, price in sheets, \$1. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7, all; price in sheets, \$2; bound, \$2.75. Of Vol. 8, all the back numbers to January 1st (No. 16), but none previous.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, and Price. 4 lines for each insertion, 50 cts. 8 " " " " \$1.00. 12 " " " " \$1.50. 16 " " " " \$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.

MORTISING MACHINE—Dear Sirs, I received the Portable Mortising Machine about three weeks ago; I have used it, and am very well pleased with it; it is the best plan of a machine of the kind I have ever seen. W. R. McFARLAND, Nashville, Tenn., 1851.

Since I have been a subscriber to your paper I have purchased one of your Mortising Machines, for which I would not take double its price and do without it. WM. M. FLEMING, Elizabethtown, Tenn., Jan. 8 1853.

This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20 MUNN & CO.

OLIVER'S WIRE WORKS—No. 25 Fulton st., corner of Water. Locomotive Spark Wire, Patent Self Setting Revolving Rat Traps; a new invented enclosed Coal and Ash Separator, and Wove Wire of every description. 21 3*

INFORMATION WANTED—Was the Aneroid Barometer in use in the United States prior to August 20, 1846? Address "H. E.," box 773, Post Office, New York. 1*

THE STOWELL EVERGREEN SWEET CORN A few bushels of this new and valuable variety; from seed raised by Professor J. J. Mapes, L. L. D., for sale. Per bushel, \$16; peck, \$5; half peck, \$3; quart, \$1; sent by express to any part of the country, on receipt of the money by mail. This is beyond all doubt the best and most prolific kind of Sweet Corn ever grown. No farmer should be without it. One of the advantages claimed for this corn by Professor Mapes, is that it may be kept green and fresh all the year round. The subscriber's limited experience, however, does not enable him to endorse this. Address, post paid, ALFRED E. BEACH, White Plains, Westchester Co., N. Y.

Prof. Mapes, in the "Working Farmer," December, 1851, gives the following directions for preserving the Stowell Evergreen Sweet Corn:—

The ears should be gathered when fully ripe, and the husk should be tied at the nose (silk end), to prevent drying, when the corn will keep soft, white and plump for more than a year, if in a dry and cool place. At the dinner of the Managers of the fair of the American Institute, last year, we presented them with this corn of two successive years' growth, boiled, and there was no perceptible difference between the two. This year we sent to the fair a stalk containing eight full and fair ears, and we could have sent many hundred stalks of six ears each. 20*

STEAM ENGINES FOR SALE—We offer for sale two Engines and Boilers, as follows: one 8 horse, horizontal, cylinder 7 inches bore, 16 inch stroke, on a cast-iron bed, fly wheel, driving pulley, governor, pump, pipes, etc.; has never been used. The Boiler has been used by the maker about one year. It is cylinder, horizontal, 16 feet long, 30 inch diameter, has a steam chamber, try-cocks, check and safety valves; price, \$600.

One 7 horse Horizontal Engine, 6 inch bore, 16 inch stroke, cast iron bed-plate, driving pulley, etc. Boiler horizontal, tubular, and has everything complete for putting it in operation. The engine is new, the boiler has been used, but is in good order. Price \$500. They are rare bargains, and will give satisfaction to the purchaser, being much less than new ones can be obtained. Address MUNN & CO.

MANUFACTURERS OR OTHERS, who have in Wool, Cotton, or their fabrics, to dry by artificial heat, will find it greatly to their interest to use Chaffee's Patent Drying Machine, or Hydro Extractor. Having purchased of Mr. Chaffee the right to manufacture, sell, or use the above-named machine in any and all parts of the United States, and having been manufacturing said machines for more than three years, and having introduced the main improvement by which the machine differs from the original, as seen in Vol. 4, No. 10, compared with Vol. 8, No. 19, Sci. Am. I am prepared to furnish, on short notice, as good a machine, and as cheap, as can be had from any source. Price, according to size, from \$100 to \$300. CHAS. BURNHAM, Springfield, Mass. 212*

SHINGLE MACHINE—WOOD'S PATENT—JAS S D JOHNSON, of Bridgeport, Conn., proprietor of this justly celebrated machine, is now on a tour through the South western States, and will exhibit the machine in operation in the principal towns and cities. Notice will be given in the local papers where and when it may be seen; he will dispose of machines and rights upon reasonable terms 9tf

APPLICATION will be made to the Commission-er of Pensions for a duplicate of Land Warrant Certificate No. 63,062, issued by the Department in 1849, to Roxana, widow of Silas Salisbury, late of 2nd U. S. Infantry; said warrant was assigned by her to E. C. Church, and by him to me Oct. 1st, 1849, and was stolen from me the 16th January, 1852, at the Hudson R.R. Depot, New York City. CHARLES D. NIMS, 21 6*

MACHINERY, TOOLS, &c.—The subscriber is prepared to manufacture all kinds of light machinery, also Lathes, Slide-rests, and Engineers' Tools, &c., at short notice and on moderate terms. Engineers and inventors giving him a call will have their work got up with accuracy and despatch. 21 4* S. BENTON, 136 Crosby st., N. Y.

CLOCKS FOR CHURCHES, COURT HOUSES AND OTHER PUBLIC BUILDINGS, Time-Pieces for Session and Vestry Rooms, Hotels, Railroads, etc.; Regulators for astronomical purposes, jewellers, and others, when the most perfect time is desired. The improvements introduced by the subscribers, enable them to warrant an accuracy of time-keeping, unequalled (so far as they can learn) in Europe or America. Glass dials, for illuminating and other kinds, furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island. "At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world." [Scientific American. 19 13eov

THE UNDERSIGNED manufacture Patent Cast-Iron Screw Pipes, of 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/2, and 3 inches in diameter—now in extensive use for gas, steam, and water, being cheaper and more durable than copper, lead, or wrought-iron pipes, and available for the same purposes. This pipe has been largely used in conducting water to railroad stations, also in tanneries, distilleries, pork and sugar houses, in conducting water or steam, and as suction pipe for pumps, for which, where long lines are required, it is peculiarly fitted, from its durability, cheapness, and the excellence of the screw-joints. We also make Solid Hub Railroad Car Wheels, by Murphy's process, using the utmost care in selecting metal for the purpose, with reference to strength and chilling properties. Also small steam engines, mill machinery, cotton presses, tobacco screws and presses, lard, timber, and mill screws; force and lift pumps of various sizes and kinds, for hand use or power. Cast-iron railing Roys & French's Patent Hub Mortising Machine, which will lay off, bore, and mortise a hub of ordinary size in 15 minutes, turning it out completely finished, the mortises having any required size. TEVIS & BARBAROUX, corner of Washington and Floyd streets, Louisville, Ky. 20 4*

BRIDGEWATER PAINT MANUFACTURING COMPANY DEPOT, 125 Pearl and 78 Beaver streets, New York, have on hand a large supply of this paint, and are prepared to receive orders for dry packages of 200 lbs. and upwards, and in oil of assorted colors in kegs of 25, 50, and 100 lbs. For wood, iron, stone, and brick work, it has no equal. Painters are using it with great success on brick buildings (the natural color resembling brown stone), on tin, canvas, or shingle roofs, villas, barns, fences, depot buildings, railroad cars, bridges, &c.; also for decks and bottoms of vessels. The black has been found superior to any other, for hulls of vessels, being more durable, possessing a greater body and sheen. From its spark and cinder-proof qualities, it is well adapted to all kinds of wood work, where there is danger from fire. Testimonials of its virtues, and specimens on wood, tin, canvas, &c., may be seen at the depot. Letters must be addressed to 20 4* R. BOGERT, General Agent.

NEW BRICK MACHINE—For a full description see Sci. Am., No. 49, and engraving No. 52, last Vol. A six-mould machine, driven by steam, makes 15,000 a day; cost, \$500 without engine. A 5-mould by two horses attached to a sweep, worked by two men and five boys, makes 10,000 a day; cost, \$300. A 4-mould, by one horse, one man and five boys, makes 8000 a day; cost, \$250; may be mounted on wheels and moved about. Persons remote may be supplied with model, drawings, and set of patterns or castings. Maryland Institute, Nov. 24. To the Committee on Awards—By your request we have made a re-examination of the Brick Machine of Mr. F. H. Smith. The work is now done in the most efficient manner and by the slightest improvement imaginable. A further improvement is in the method of delivering the bricks from the moulds, which goes far to facilitate the entire operation. We are of opinion that the machine will prove a great acquisition to those engaged in the business, especially in country places where they have not the benefit of experienced hands, as the whole is performed by ordinary labor. The bricks made by it are well formed, substantial, and all that can be desired. —Wm. Silver, L. P. Clark, John C. Ely, Thos. Williams, C. Reader. December 17th—By unanimous vote Gold Medal awarded. FRANCIS H. SMITH, Address, 17 3eov* Baltimore.

HARRISON'S UNEQUALLED FLOUR AND GRAIN MILLS—Their frames and hopper are cast iron, and the stones French Burr, 30 inches in diameter; grinds wheat and corn 20 bushels an hour, weighs 1400 lbs.; cash price \$200. These mills, constructed upon a new principle, have become widely known, and are producing a revolution in milling. Cash orders promptly supplied, and the mills warranted to work in the best manner. The patentee offers \$500 reward for any mill which will do an equal amount of work with the same power and dressing. Made and for sale at the corner of Court and Union streets, New Haven, Conn. by EDWARD HARRISON. 20 12*

BACK VOLUMES OF THE SCIENTIFIC AMERICAN for sale—Vols. 2, 5, 6, and 7, complete, price \$2.50 per volume; Vol. 3, less 10 or 12 numbers, and Vol. 4, less 4 or 5 numbers; price \$1.50 each; all bound and in good order. Address, post-paid, F. S. BURRELL, Albany, N. Y. 19 4*

SURFACE CONDENSERS—Having built and used at our machine shop and foundry one of J. M. Miller's Surface Condensers for the last 14 months, we are now prepared to receive orders for building and putting up said condensers on either high or low pressure engines now in use, and warrant the same against expansion and contraction of the metals, also the injurious effects of oil in the tubes, which alone has caused the failure of condensers heretofore used. We have also found, in the use of our Condenser a nett saving of 30 per cent of fuel, the water being kept pure and regular in the boiler by the condensation of the steam. In our judgment this Condenser is the perfecting of the Steam Engine. COBB, MASON & MILL, North Point Foundry and Machine Works, Jersey City, N. J. 18 4

P. N. FITZGERALD, Counsellor at Law has recently resigned the office of principal Examiner of Patents, which he has held for many years, and is ready to assist, professionally, in the preparation and trial of patent causes before the U. S. Courts in any of the States, and before the Supreme Court of the United States. He also acts as Counsel in cases before the Patent Office, and on appeals therefrom, but does not prepare applications for Patents. Office corner of E and 8th sts., Washington, D. C. 18 7f

PATENT DRAFT BOARDS—With extension scales, sheet fasteners, and T rule. See Reports of Worcester Fair, Maryland State Fair, &c. &c. with their awards. \$10 complete. Sent by express. Address, post-paid, CHAMBERLIN & CO., Pittsfield, Mass. 16 1f

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines, the best in use, and applicable alike to thick or thin staves; also his Head Cutting and Turning, and Stave Jointing Machines. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 9tf

IRON FOUNDERS MATERIALS—viz.: Scotch and American Pig Iron, of favorite brands; Scotch patent Fire Bricks—square, arch, and circular. Fire Clay and Fire Sand; Moulding Sand for Iron and Brass Foundries; Core Sand and Flour. Pulverized Black Lead, Soapstone, Sea Coal, Anthracite, and Charcoal Baked Facings of approved quality, for sale by G. O. ROBERTSON & CO., office 135 Water street, (corner of Pine), N. Y. 19 6eov*

BEARDSLEE'S PATENT PLANING Tongue-and Grooving Machines—These celebrated machines have now been generally introduced in various portions of the United States. More than thirty are now in successful practical operation in the State of New York alone. As an illustration of the extent of work which they are capable of performing, with unrivalled perfection, it is sufficient to state that, within the last six months and a half, over five millions of feet of spruce flooring have been planed, tongued and grooved by one of these machines at Plattsburgh, N. Y. never running to exceed ten hours a day. The claim that the Beardslee machine was an infringement upon the Woodworth patent, has been finally abandoned; and after the proofs had been taken, the suit instituted by the owners of that patent was discontinued, and the whole controversy terminated on the first of November last. Applications for machines or rights may be made to the subscriber, GEO. W. BEARDSLEE, 57 State street, or No. 764 Broadway, Albany. 15 1f

EXHIBITION OF WORKS OF AMERICAN Industry at Washington City.—The first exhibition of the Metropolitan Mechanics' Institute will be opened on Thursday, the 24th of February, 1853, in the new and splendid hall of the east wing of the Patent Office, one of the largest and most magnificent rooms in the United States, being 275 feet long by 70 feet wide. To this exhibition the manufacturers, mechanics, artists, and inventors, from all portions of the Union, are cordially invited to contribute. The hall will be opened for the reception of goods on Monday, the 14th of February, and the exhibition will positively close on or before Thursday night, March 17. Circulars, containing detailed instructions, will be forwarded and any further information given, on application (post-paid) to the Corresponding Secretary, Charles F. Stansbury, to whom all communications on the business of the Institute should be addressed 8tf

WOODBURY'S PATENT PLANING Machines—I have recently improved the manufacture of my Patent Planing Machines, making them strong and easy to operate, and am now ready to sell my 24 inch Surfacing Machines for \$700, and 14 inch Surfacing Machines for \$650 each. I will warrant, by a special contract, that one of my aforesaid machines will plane as many boards or plank as two of the Woodworth machines in the same time, and do it better and with less power. I also manufacture a superior Tonguing and Grooving Machine for \$350, which can be either attached to the Planing Machine, or worked separately. JOSEPH P. WOODBURY, Patentee, Border st., East Boston, Mass. 13 1f

MACHINERY.—S. C. HILLS, No. 12 Platt-st. N. Y. dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills; Kasse'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. 13 1f

A. B. ELY, Counsellor at Law, 52 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 16 1f

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. 7 1f

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. 1 1f

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.

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. 1 1f

THE TROY IRON BRIDGE CO. are prepared to erect Iron Bridges or Roofs, or any kind of bearing trusses, girders, or beams, to span one thousand feet or under, of any required strength, in any part of the country. Their bridges will be subjected to severe tests, and can be built for about the price of good wooden ones. Address BLANCHARD & FELLOWS, Troy, N. Y. 7 20*

J. D. WHITE'S PATENT CARAXLE LATHES J.—also Patent Engine Screw Lathes, for boring and turning tapers, cutting screws, &c. We manufacture and keep constantly on hand the above lathes; also double slide Chuck and common Hand Lathes, Iron Planers, 8 Ingersoll's Patent Universal Ratchet Drill, &c. Weight of Axle Lathe, 5,500 lbs; price \$600; Engine Screw Lathe, 1400 to 7,000 lbs; price \$225 to \$675. BROWN & WHITE, Windsor Locks, Conn. 15 1f

NEW HAVEN MANUFACTURING COMPANY, Tool Builders, New Haven, Conn., (successors to Scranton & Parshey) have now on hand \$25,000 worth of Machinists' Tools, consisting of power planers, to plane from 5 to 12 feet; slide lathes from 6 to 18 feet long; 3 size hand lathes, with or without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; drill presses, index plates, bolt cutters, and 3 size slide rests. The Co. are also manufacturing steam engines: All of the above tools are of the best quality, and 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, B. C. HILLS, Agent N. H. Man'g Co. 19 1f