

TO CORRESPONDENTS.

"Western New Yorkers"—There can be no doubt of a general disappointment in respect to the conduct of the American Institute regarding the Ray Premiums.

F. V. of Mich.—We think it not best to mention your improvements in our columns.

F. R. B. of Ill.—The "Gilder's and Painter's Companion" is a small book; cost \$1, postage about 25 cents, it is a very good work.

A. C. B. of Albany—There is not the slightest hope of our being able to furnish you with those back volumes.

J. F. S. of Ohio—We would supply your subscribers with the back numbers with pleasure if we had them, but they are all gone.

J. R. K. of Ga.—Your caveat will take effect from the day it was filed, which was on the 11th inst.

H. M. D. of Mass.—There is no reliable map of all the railroads built and in contemplation.

B. H. W. of Mo.—There is nothing new in your suggestions about locomotives; essentially the same plan is now in use.

W. J. T. of Pa.—There is nothing new in your method of gearing locomotive wheels for ascending incline planes; the same thing is in use and is generally well known.

S. S. of R. I.—We do not know of any patent improvement in the drill which will prevent you from obtaining a patent.

C. W. E. of Ohio—We have carefully examined the sketches of the four devices you have submitted to us for our opinion, and do not discover sufficient novelty or utility in either of them to warrant application for letters patent.

J. W. B. of Tenn.—We have examined the sketch of your so-called perpetual motion. We have no faith in it whatever, and advise you not to waste away your time on a subject so wild and chimerical.

T. J. H. of Conn.—There is nothing patentable in your alleged improvement in firemen's ladders.

J. M. of N. Y.—We sent you the premium money (3 twenty dollar gold pieces) by the American Express Co., last Saturday.

L. A. M. of Vt.—We shipped the Encyclopedias to you by Express, last Friday week.

J. S. of Md.—A stereotypic of the Crystal Palace was sent to you last Monday.

A. R. of Pa.—Yours will receive attention.

A. L. S. of N. Y.—The privilege which A granted to B and C is covered by the written agreement, nothing more and nothing less, except what may have been given before witnesses verbally.

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

S. B. of Ind.; G. B. D. of Mass.; L. B. F. of N. Y.; S. E. S. of Vt.; R. O. B. of Ill. (2 cases); E. L. N. of Mass.; F. H. of N. J.

A Chapter of Suggestions, &c.

ALL GONE, ALL GONE.—At the commencement of the present volume, we printed 5,000 extra copies, which we concluded would be sufficient for the subsequent demand.

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.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines of advertisement, Price per line. 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.

BEARDSLEE'S PATENT PLANING Tonguing and Grooving Machines.—These celebrated machines have now been generally introduced in various portions of the United States.

RARE OPPORTUNITY FOR MECHANICS

The advertiser is anxious to secure a good Partner in the person of a skillful mechanic, who has a cash capital of from \$3000 to \$5000, to assist in carrying on an extensive establishment in one of the most flourishing cities of the South.

J. D. WHITE'S PATENT CARAXLE LATHES

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.

WANTED—A good DYER and FINISHER

of woollen goods. We are most particular about the former qualification. For further particulars address us by mail or otherwise.

WATER WHEELS.—The subscribers offer for sale Jagger's Improved French Turbine Water Wheel, which they believe to be unrivalled.

J. J. GER, TREADWELL & PERRY, 110 Beaver st., Albany, N. Y.

A PORTER WANTED.—An experienced PORTER (one accustomed to both turning and burning) can obtain constant employment at liberal wages by applying to A. MILLER, Chatham, Canada West.

WEIK & WIECK, Publishers, 195 Chestnut st., Philadelphia, have issued F. Ahn's new, practical, and easy Method of Learning the German Language, with a pronunciation arranged according to J. C. Oehlschlager's recently published Pronouncing German Dictionary.

CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, &c. Time-Pieces for Vestry and Session Rooms, Railroad Stations, Banks, Offices, etc., of various styles and prices; Regulators for Jewellers, with different-sized movements, plain and jewelled (in plain cases or others of an entirely new pattern and unequalled elegance).

At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world. Mr. Byram is a rare mechanical genius.

WILL BE SOLD.—On Thursday, Dec. 29, 1852, at Public Auction, if not previously disposed of at private sale, the SALUDA COTTON FACTORY, situated on Saluda River, three miles from Columbia, where the Greenville and Charlotte Railroads connect with the South Carolina Railroad.

NEWELL'S PATENT SAFETY LAMP AND LAMP FEEDER.—Warranted to prevent all accidents from the use of Burning Fluid, Camphene, and other explosive compounds used for the production of light.

CERTIFICATE.—College of Physicians and Surgeons, New York, Oct. 17, 1852. We have examined the Patent Safety Lamp and Lamp Feeder, of Mr. John Newell, of Boston, and are fully convinced, from the experiments we have made with them, that he has obtained the great desideratum of preventing the risk of explosive action in the use of burning fluids in Lamps and Feeders.

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.

UNITED STATES STANDARD RULES.—Manufactured by JOS. R. BROWN, Providence, R. I. Agents: A. J. Wilkinson, No. 2 Washington st., Boston; J. N. D. Wyckhoff, 152 Broadway, and Sibenmann & Quartier, 15 John st., N. Y.; Homer Foot & Co., Springfield, Mass.; John S. Gray, Hartford, and J. G. & F. H. Brown, New Haven, Conn.; W. F. Dominick & Co., Chicago.

CHURCH CLOCKS.—On a new and improved principle, warranted perfect time-keepers, and easily kept in repair. Prices from one to three hundred dollars. Old stocks regulated on a new principle, and warranted to keep perfect time. Address: CHAS. IREED, JOHNSON, Owego, Tioga Co., N. Y.

BLISS' IMPROVED MORTISING MACHINE.—Illustrated on page 220, Vol. 3, Sci. Am. These machines are made by J. W. BLISS, Hartford, Ct., and on the receipt of \$25 will be boxed in good order and sent by Express to any part of the country.

COTTON MACHINERY FOR SALE.—Four Filling Frames, of 144 spindles each, made in the best manner and nearly new; price \$1 per spindle; other machinery for sale equally low. Apply to E. WHITNEY, New Haven, Conn.

MACHINISTS' & MANUFACTURERS' TOOLS.—O. SNOW & CO., Union Works, Meriden, Ct. Having increased their facilities for manufacturing Lathes, Planers, &c., have now on hand, finished and finishing off, Slide Lathes, a variety of sizes and lengths, at prices varying from \$125 to \$800, according to size and finish; also Hand and Power Planers for iron, 2, 3 1/2, 6, and 10 foot beds; also Milling Machines, Hand Lathes with or without iron beds, comprising six different sizes, all of the most approved construction and warranted of the best quality of work.

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 Pearl street, Brooklyn, L. I.

E. HARRISON'S UNEQUALLED FLOUR AND GRAIN MILLS.—Their frames and hopper are cast-iron, and the stones French Burr, 30 inches to four feet diameter. Thirty inch mill grinds 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.

FOUNDRY FOR SALE.—The Columbus Foundry, in Columbus, Miss., is offered for sale on the most liberal terms. The Foundry has a 16 horse-power engine and boiler; also a good grist mill, and attached to it the moulding room, 45 by 50 feet; all the tools and patterns will be sold with it. A good stand to do a good business; no foundry near. For further particulars and terms, &c., address A. R. WOLFFINGTON, Columbus, Miss.

R. W. PARKER'S PORTABLE SAWING Machines, driven by his patent method of banding pulleys, as manufactured by C. W. & R. Bemis, of Waltham, Mass. For sale all complete, or with the ironwork separately, by HORACE F. FARINGTON, Nos. 46 and 48 Wooster st., N. Y.

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.

BAILEY'S SELF-CENTERING LATHE.—The best in America for Chair Stuff, Wagon Trails, 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.

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.

IRON FOUNDERS MATERIALS.—viz.: American bard 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 circulars 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. ROBERTSON, office 135 Water street, (corner of Pine), N. Y.

WOODWORTH'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 Machine for \$700, and 14 inch Surfacing Machines for \$550 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. 1852

MACHINERY.—S. C. HILLS, No. 12 Platt st. N. Y. dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Rascals, 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.

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. and 60 Beaver, N. Y.—Leather Banding Machinery, 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.

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.

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.

SHINGLES, SHINGLES, SHINGLES.—WOOD'S latest improvement in Shingle Machines is becoming more generally used than any other ever invented, and is unquestionably the best machine now in use; it produces shingles from all kinds of timber in a very perfect and rapid manner. Machines and rights for sale. Apply to JAMES D. JOHNSON, Bridgeport, Ct.

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.

POSTAGE STAMPS.—Post Office Stamps, of the denomination of 1, 3, or 12 cents, may be had at par by addressing MUNN & CO., Scientific American Office.

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 13 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.