



CORRESPONDENTS

P. S. A., of Ala.—You are right except with regard to the height to which you can raise the water by that means.

F. R. W., of Md.—Various machines for tempering clay and molding brick have been illustrated in our columns.

D. C. T., of Conn.—Your idea of suspending an ocean telegraph from diving bells moored a few fathoms beneath the water, to avoid the waves at the surface.

C. F. M., of Pa.—Books to aid in constructing steam engines and mill work are very numerous.

J. B., of R. I.—The best work on electricity, and also the best Chemical Dictionary, happen to be one and the same volume.

J. C., of Mo.—Three ounces of quicklime, nearly slacked, and half an ounce of orpiment powder, mixed well together with water.

R. W., of Conn.—The recipes which you have sent are similar to those in Ure's Dictionary.

T. M., of Ct.—The colors on cotton cloth and yarn can be discharged by the common process of bleaching with chlorine and sulphuric acid.

W. C. G., of Tenn.—We cannot give you the information desired respecting Tyler's and Heller's water wheels—their relative powers, in comparison with an over-shot wheel, under a 25 foot head.

C. D. G., of Tenn.—Build your steam boiler in with thick brick flues, and erect a high chimney, say 100 feet, and you have less danger of igniting the cotton in your gin house.

H. C. G., of Phila.—An 18-horsepower engine will drive two run of 4 feetstones, but 21 horse-power engines should be selected, as this is the calculated power which we think is best.

J. M. W., of N. Y.—In making hydrogen gas from water, by passing the latter through a red hot retort containing iron scraps, you must not permit any air to enter with the water.

T. M., of Cal.—We know of no book treating on black-smithing or forging in any form.

J. M. C., of C. W.—Among so many good force pumps we cannot point out any particular one as the best.

M. M., of N. C.—Reaping machines are too numerous and good to select from without very particular instructions.

J. H. W., of Va.—Mrs. Somerville's Physical Geography is the best that we know of. It was published in London some years ago—has never been republished in this country.

D. B., of Texas.—Sheet zinc is not so good for roofing as tin. It soon wears out by the action of the weather.

J. H. W., of C. W.—We cannot determine the length of pipe employed, how much cold water a coil of a certain number of feet will heat by steam, and in what time.

C. Y. H., of Ohio.—We do not believe that eggs can be preserved in common air-tight cans by simply exhausting the air from them.

N. & R., of Ind.—We are of opinion that the rag vats and heaters of your paper mill may be heated with the exhaust steam of your high pressure engine.

T. E., of Ga.—R. E. Schroeder, Rochester, N. Y. makes good carpet fasteners.

A. F. T., of Ky.—Your views, and those of Brewster on seeing correct images, although they are inverted on the retina, do not differ.

J. H. F., of N. Y.—There is nothing new in the arrangement of the engine cylinders as you propose; a double engine has had two cylinders arranged inclined towards each other at an angle of 45 deg. to the horizon.

R. N., of Vt.—Copal varnish is the best for making labels adhere to tin boxes. Perhaps butter can be separated from milk by some chemical process, but not cheaper than by the simple act of churning.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, March 7, 1857.—

M. J., of Pa., \$35; E. E., of N. Y., \$29; S. T. S., of Mass., \$25; J. T. H., of Pa., \$30; M. T. J., of Ohio, \$30; W. W. D., of Cal., \$100; T. V., of Cal., \$25; B. A. H., of N. Y., \$25; T. & B., of Mass., \$30; W. W., of Wis., \$30; W. W. M., of Ill., \$30; D. R., of O., \$25; D. B., of Iowa, \$25; E. L. E., of R. I., \$12; E. L. & Co., of S. C., \$92; A. R., of Texas, \$55; J. C., of —, \$50; D. W. & H. A. L., of N. J., \$25; E. P., Jr., of Ct., \$25; T. E., of Pa., \$55; H. N. DeG., of V. B., of Mo., \$35; E. M., of N. Y., \$30; A. N., of Pa., \$27; J. G. A., of N. Y., \$30; L. W., of N. Y., \$30; C. W., of N. J., \$30; W. L. B., of Vt., \$30; D. R. A., of Ohio, \$25; E. C., of O., \$35; S. B., of Mo., \$90; S. Y. L., of L. I., \$30; J. B. W., of N. Y., \$250; W. A. F., of Ct., \$60; G. V. B., of Mo., \$35; N. E. H., of N. Y., \$30; C. S. M., of N. Y., \$30; J. H., Jr., & Co., of N. Y., \$100; J. B., of N. Y., \$55; S. H., of Pa., \$65; S. S. C., of N. H., \$25; T. B. DeF., of Ct., \$50.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 7, 1857: S. S. C., of N. H.; J. C. O., of N. J.; E. E., of N. Y.; S. T. S., of Mass.; J. W. K., of B. A. H., of N. Y.; L. H. A., of Ala.; M. C. R., of O.; S. T. H., of Ill.; J. S., of L. I.; L. W. & H. A. L., of N. J.; J. D., of N. J.; D. B., of Iowa; E. L. E., of R. I.; E. P., Jr., of Conn.; D. R., of Ohio; A. N., of Pa.; C. O. L., of Vt.

Literary Notices.

HOMOEOPATHY: ITS NATURE AND PRINCIPLES.—By George Glewitz, M. D., Stratford, Conn.—Few there are who understand the principles on which the medical science denominated "Homoeopathy" is based.

THE KNICKERBOCKER.—This genuine monthly for March is illustrated with a fine steel plate likeness of Fitz Green Halleck.

THE EDINBURGH REVIEW.—The number for this quarter of the above-named review maintains its old high character for the foremost and able criticism.

THE WESTMINSTER REVIEW.—The number for this quarter of this radical reforming review contains eight able original essays, besides remarks on cotemporary literature.

Terms of Advertising.

Twenty-five cents a line each insertion. We respectfully request that our patrons will make their advertisements as short as possible.

All advertisements must be paid for before inserting.

SAWS.—HOE & CO.'S Patent Ground Saws, Planing Tables, &c., can be had wholesale and retail, at the principal hardware stores.

MATHEMATICAL, OPTICAL, AND PHILOSOPHICAL INSTRUMENTS.—We shall issue, 1st of March, the fourth edition of our Priced Catalogue.

TO MACHINISTS.—A Chance for Business.—A party owning one-third interest in a steam saw and flour mill, situated in the best part of Iowa for timber, wheat, and health; not residing there, and having no knowledge of the business, would sell out on favorable terms to a practical machinist, who, with two other owners, now on the ground, would devote himself to superintending the machinery.

IF YOU WISH to procure a threshing and cleaning machine, the most substantial, simple, durable, with light draft, have your grain saved, and put in marketable order, address the manufacturer, WM. McCURE, Ripley, Ohio, and get a descriptive circular.

TRUSTEE'S SALE OF MACHINERY.—Now is the time to buy machinery of all kinds cheap for cash. We have a few more Planers, Lathes, Gear Cutters, Drills, Chucks, Horizontal Drilling Machines, Bolt Cutters, Belling Patterns for making Machinery of all descriptions, &c., together with a large quantity of small tools, all of which will be sold in lots to suit the purchasers.

HOW TO WRITE.—A new pocket manual of composition and letter-writing. A popular hand-book, embracing hints on penmanship, choice of writing materials, practical rules for literary composition in general, and epistolary and newspaper writing, punctuation and proof-correcting in particular.

SAW GUMMERS.—G. A. PRESCOTT, of Sandy Hill, N. Y., continues to manufacture Saw Gummers, Saw Tools, &c., calculated for Gang, Muley, and large Circular Saws.

TENON MACHINE.—The Patent of an invaluable machine for cutting tenons on the ends of spokes, for sale at a reasonable price.

PRACTICAL INSTRUCTIONS in plating on flowers, &c., with gold, silver or copper, will be forwarded on \$1 being enclosed in a letter addressed to F. RICHARDSON, Practical Chemist, Box 891, P. O., Hartford, Conn.

1000 YOUNG MEN of small means can make over 100 per cent at home or abroad. Profits certain; no chance. Business new, easy, useful, honorable. Send stamp to M. J. COOK, Detroit, Mich.

EXCELSIOR STEAM PUMPS, Direct and Double Acting, manufactured and sold at 55 and 57 First street, Williamsburgh, N. Y., and 301 Pearl street, New York.

A VALUABLE WATER POWER FOR SALE. For particulars, address, DAVID S. McNAMARA, North Hoosick, N. Y.

G. B. HARTSON, late proprietor of the Globe Iron Works, having retired from that establishment, will now give his personal attention to executing orders on commission for all kinds of machinery, Steam Engines, boilers, &c.

WILLMER & ROGERS, 42 Nassau street, New York, are the agents in the United States for the following London journals:—London Evening Post, weekly, \$10 per year.

COMMERCIAL AGENTS, able and honest Men from N. England or N. York. A. W. Harrison, Phila. 15 13\*

THE ENGINEER is a weekly illustrated London Newspaper devoted to matters interesting to machinists, engineers, to patent inventions, &c.

LEONARD TILTON.—Improved Patent Wood-planing, Tongueing, and Grooving Machines, manufactured at 155 west 33d st., between 7th and 8th avenues, New York.

RECIPE FOR MAKING HONEY as good as that made by bees, and which does not cost over six cents per pound, sent for one dollar. N. H. GARDNER, Peace Dale, R. I. 12 6\*

INVENTIONS, DISCOVERIES AND INFORMATION which, in the opinion of the London Society of Arts, are now required by the public.

MACHINERY.—S. C. HILLS, No. 12 Platt street, N. Y., dealer in Steam Engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps, Mortising, Tonnaging, and Sash Machines, Woodworth's and Daniel's Planers; Dick's Pumps, Presses, and Shears; Cob and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belling, Oil, &c. 27 63w

ENGINEERING.—The undersigned is prepared to detail specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description.

CLAIR CAR MANUFACTORY.—St. Clair, Schuylkill Co., Penn. Coal and freight car of every description. Workmanship and material guaranteed equal to any manufactured in the United States.

NEW HAVEN MFG. CO.—Machinists' Tools, Ironers, Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks &c., on hand and finishing.

HARRISON'S 30 INCH GRAIN MILLS.—Latest Patent.—A supply constantly on hand. Price \$200. Address New Haven Manufacturing Co., New Haven, Conn. 27 1f

SECOND-HAND MACHINERY FOR SALE.—One Planer, will plane 10 ft. long, 3 ft. wide, high, cost \$650; price \$550, cash. One Planer, will plane 5 ft. long, 20 inches wide, 16 inches high, cost \$350; price \$275, cash. One Engine Lathe, will turn 13 inch long, swing 20 inches, weight rest, and ch. in feed, cost \$350; price \$225, cash. One Engine Lathe, will turn 8 feet long, swing 20 inches, weight rest, and chain feed, cost \$200; price \$130, cash.

NEW MACHINERY FOR SALE.—On hand, No. 0 Lathes, 8 ft. bed, swing 16 inches, weight rest, price \$250; No. 1, 10 ft. bed, swing 20 inches, giv'd rest, price \$315; No. 2, 14 ft. bed, swing 30 inches, giv'd rest, price \$525.

ENGRAVING ON WOOD AND MECHANICAL DRAWING, by RICHARD TEN Eyck, Jr., 123 Fulton street, N. Y., Engraver to the Scientific American. 161f

J. R. STAFFORD'S FAMILY RECEIPT BOOK, contains 150 Family Receipts, many of which are new, and all of which are practical, besides much valuable information for mechanics and others.

MACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufactured of vulcanized rubber is established. Every belt will be warranted superior to leather, at one-third less price.

AMERICAN MILLER AND MILLWRIGHTS' ASSISTANT.—By William Hughes. A new edition revised, with additional matter. Illustrated by numerous engravings of machinery, &c.

PAGE'S PATENT PERPETUAL LIME KILN, will burn 100 barrels of lime with three cords of wood every 24 hours; likewise my coal kiln will burn 150 bushel with 1 1/2 tons bitum coal in the same time.

WOODWORTH'S PATENT PLANING MACHINES of every kind and all prices. A large assortment on hand, and I am prepared to construct any machine to order from ten days to two weeks, and guarantee each machine to be perfect in its construction.

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STOVE POLISH.—The best article of the kind yet invented for family use. Sold wholesale and retail at 114 John st., New York, by QUARTERMAN & SON. 27 1f

30 HORSE STEAM ENGINE.—At the Crystal Palace, called the "Endeavor," the best engine ever exhibited by the American Institute; will be sold low if applied for immediately.

WOODWORTH'S PATENT PLANING MACHINES.—Patent expires Dec. 27th, 1856. Machine constantly on hand, together with steam engines and boilers of all sizes.

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LAP-WELDED IRON BOILER TUBES.—Prosper's Patent.—Every article necessary to drill the tube, plates, and set the tubes in the best manner.

50 STEAM ENGINES.—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash.

GOLD QUARTZ MILLS of the most improved construction; will crush more quartz and do it finer than any machine now in use, and costs much less.

OIL! OIL! OIL!—For railroads, steamers, and for machinery and burning.—Pease's Improved Machinery and Burning Oil will save fifty per cent, and will not gum.

NORCROSS ROTARY PLANING MACHINE.—The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb. 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks is not an infringement of the Woodworth Patent.

NEW HAVEN MFG. CO.—Machinists' Tools, Ironers, Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks &c., on hand and finishing.

BOILER INCrustATIONS PREVENTED.—A simple and cheap condenser manufactured by Wm. Burdon, 102 Front st., Brooklyn, will take every particle of lime or salt out of the water, rendering it as pure as Croton, before entering the boiler.