



W. J. D. of New York.—Soft solder is composed of 66 parts of lead and 34 of tin.

J. K. of N. Y.—The articles on dyeing were published in Vol. 10. There is no cheap plan for dyeing a dark brown on wool that will enable it to stand a strong sour of sulphuric acid.

F. W. C. of Vt.—India rubber has been proposed to line vessels, to prevent leakage in case of collisions at sea.

N. H. of Md.—Those who have made inquiries of us respecting the work called "The Tinman's Guide," wish to purchase it.

Wm. Hogan, of Hogansville, Ga., wishes to purchase the best spoke lathe to be had in the market.

J. P., of Mass.—We do not know of any one engaged in the manufacture of steel wire.

G. M. M., of Tenn.—Patents have been secured for machines designed to reap, thresh, and separate the grain at the same operation.

L. V., of Ill.—When boards are steeped a long period in a solution of the sulphate of copper, to preserve them, the solution should be weaker than when steeped in it only for a short period.

S. T. McD., of N. Y.—Any person stamping or printing the word "patented" on an unpatented article or machine, with the intention to deceive, is liable to a fine of \$100 for each offence.

P. S. A., of Ala.—We cannot conceive how you can obtain a vacuum in your tube by the descent of water, when both ends of it are immersed in water.

John E. Boatman, of Bainbridge, Ohio, wishes a machine for knitting ladies and gentlemen's hosiery.

L. F. H., of Vt.—Sharp's breech-loading rifles are manufactured at Hartford, Conn.

D. E. P., of Pa.—We did not receive your letter in time to do what you requested in regard to the milk preserving.

B. J. V. M., of Pa.—Whirlpools revolve in all directions; they do not whirl contrary to the sun by any known law of nature.

B. W. M., of N. Y.—Good oil paint is the best for exposed brick or wood work.

U. B. V., of Pa.—Your suggestions in regard to the ventilation of ships or sailing vessels by means of suitable machinery operated by clock-work are not new.

A. S., of N. Y.—Attempts have been made to produce such a machine as you describe, but as yet we believe no success has been attained.

I. W., of N. Y.—The gyroscope is an old invention, but was not generally known until it was illustrated in our last volume.

H. M., of Pa.—In architecture there is an arch called the "flat arch," on account of its curve being hidden to the eye, because it embraces such a small part of a circle.

R. G. S., of Md.—Acetate of lead dissolved in water, then added to a solution of the bi-chromate of potash, precipitates the chromate of lead, which is employed as a yellow pigment in painting.

J. M. B., of Ohio.—You will find rules for calculating water power in our last volume, and by applying them to your case you will be able to calculate the power of your fall exactly.

J. McC., of Conn.—You cannot employ a syphon usefully to raise water to drive a water wheel. The reason why a syphon raises water is owing to the unbalanced pressure of the atmosphere.

Money received at the Scientific American Office, on account of Patent Office business for the week ending Saturday, Nov. 29, 1856.—

S. P. S. of N. Y., \$30; P. H. of Ill., \$55; A. & R. of N. Y., \$10; P. E. of Ala., \$15; R. D. of Vt., \$25; H. F. P. of Mich., \$30; R. C. W. of O., \$20; W. B. of Tenn., \$25; K. & W. of Ind., \$25; J. L. of Pa., \$25; G. W. F. of Ind., \$27; C. & W. of Md., \$100; J. S. of Mass., \$5; M. J. M. of Md., \$15; T. G. of R. I., \$25; V. R. D. of Ill., \$30; J. G. E. of Pa., \$30; J. R. of N. Y., \$20; R. G. P. of N. Y., \$30; O. & W. N. of Conn., \$30; W. F. of N. Y., \$20; S. N. S. of N. Y., \$60; H. P. of N. Y., \$15; V. R. of N. Y.

\$20; G. E. H. of N. Y., \$55; J. H. of Wis., \$57; E. G. A. of Mass., \$100; W. S. of L. I., \$25. Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Nov. 29.—

E. G. A. of Mass. (2 cases); R. D. of Vt.; W. B. of Tenn.; K. & W. of Md.; J. S. B. of N. H.; W. S. of L. I.; G. W. F. of Ind.; T. G. of R. I.; J. S. of Mass.; J. B. of Ill.; R. W. S. of Ala.; M. J. M. of Ind.

Important Items.

COMPLETE SETS OF VOLUME XII EXHAUSTED.—We regret that we are no longer able to furnish complete sets of the present volume. All the back numbers except 1, 6, and 9, we can yet furnish, if new subscribers desire to commence back to the beginning of the volume.

Subscribers to the SCIENTIFIC AMERICAN who fail to get their papers regularly will oblige the publishers by stating their complaints in writing.

INVENTORS SENDING MODELS to our address should always enclose the express receipt, showing that the transit expenses have been prepaid.

PATENT LAWS and GUIDE to INVENTORS.—This pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office.

RECEIPTS.—When money is paid at the office for subscription, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgment of the receipt of their funds.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within fourteen years can obtain a copy by addressing a letter to this office.

FIVE INTELLIGIBLE DIRECTIONS.—We often receive letters with money enclosed, requesting the paper sent for the amount of the enclosure but no name of State given.

TO THE PRESS.—Any newspaper or publication which is entitled to the SCIENTIFIC AMERICAN on the terms prescribed in the Circular which was sent from this office a few weeks ago, and does not receive it regular, is requested to make complaint to this office.

FOREIGN SUBSCRIBERS.—Our Canada and Nova Scotia patrons are solicited to compete with our citizens for the valuable prizes offered on the next volume.

Terms of Advertising.

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IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had TEN years' practical experience in soliciting PATENTS in this and foreign countries, he gives notice that they continue to offer their services to all who may desire to secure Patents at home or abroad.

Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average fifteen, or one-third of all the Patents issued each week, are on cases which are prepared at our Agency.

Private consultations respecting the patentability of inventions are held free of charge, with inventors, at our office, from 9 A. M. until 4 P. M.

Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country.

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In addition to the advantages which the long experience and great success of our firm in obtaining patents present to inventors, they are informed that all inventions patented through our establishment, are noticed, at the proper time, in the SCIENTIFIC AMERICAN.

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

FORBES & BOND, Artists, 89 Nassau st., N. Y., Mechanical and general Draughtsmen on wood, stone, &c.

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NOTE.—"The Insurance Monitor" is published by T. Jones, Jr., No. 6 Wall st., and gives every information on insurance, standing of Companies, &c.

TIMBER OWNERS, Speculators, and men of Enterprise.—The new invention of A. Kendall for riving and shaving shingles is in market for a large portion of the United States.

CAPITALISTS.—A gentleman thoroughly acquainted with the business, having a large western acquaintance, and who can command one of the best assortments of patterns in the country, wishes to form a connection with some foundry building, or already established in some western city.

A PAPER FOR THE MILLION.—SCOVILLE'S FAMILY GAZETTE, an independent weekly journal published in New York, is the cheapest and best news and literary family periodical in the world.

RUNYAN & HOSTER, of Seneca Falls, Seneca County, N. Y., are now prepared to fill orders for any or all sizes of Lewis' Improved Direct Double-Acting Steam Pump, the best pump in use.

A. & J. T. SPEERS' Central Depot for the sale of patent rights, patented articles, &c.

FOR SALE.—A second-hand 5-horse power engine and 15-horse boiler, price \$250.

J. R. STAFFORD'S FAMILY RECEIPT BOOK, contains 150 new and practical Household Receipts. An account of the most prominent diseases—what produces what will cure, and why.

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30 HORSE STEAM ENGINE.—At the Crystal Palace, called the "Endeavor," the best engine ever exhibited by the American Institute.

MATTEAWAN MACHINERY DEPOT.—No. 62 Cortlandt street, New York.—Woodworth's Planing Machine Patent expires Dec. 27, 1856.

WRIGHT'S PATENT SECTIONAL SPRING BED BOTTOM.—The cheapest and most perfect article in use.

MACHINISTS' TRY SQUARES.—An entirely new and unequalled article; cast-steel Rules, straight-edges, cast-steel beveled straight-edges for machinists; cast-steel yard sticks for carriage trimmers; combined Gauge and Callipers, and a superior drafting scale for Architects and Engineers.

FANNING MILL MAKERS.—Lewis & King, Seneca Falls, N. Y., manufacturers of a superior article of Fanning Mill Irons, are now prepared to make arrangements for supplying castings on the most reasonable terms for the year 1857.

SHOE TOOLS.—Best of all kinds at the lowest prices manufactured by GEO. WILLIS, Worcester, Mass.

PORTABLE STEAM ENGINES.—S. C. HILLS, No. 12 Platt st., N. Y., offers for sale these Engines, with Boilers, Pumps, Heaters, &c., all complete, and very compact.

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

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

CHARLES W. COPELAND, Consulting Engineer, 64 Broadway.

CRIDGE & WADSWORTH'S IMPROVED Oscillating Steam Engine. Patented December 12th, 1854. After a thorough practical test for about two years of the above improvement, our success warrants us in inviting the closest examination into its reputation in our own locality, and the great popularity of our engines in the midst of the most active and intelligent competition.

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POPE MAKERS should get particular information about a very valuable invention. The Empire Rope Machine, patented July last by F. G. Boone, occupies not 20 inches square, makes rope of any size, with not half the power required for other machines.

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PATENT ORNAMENTAL LATHE for bedstead Taps and drill turning, with great perfection, without a pattern. Rights and lathes for sale by P. C. Cambridge, patentee, North Endfield, N. H. LEONARD & WILSON, 60 Beaver st., N. Y., Agents.

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

D. BARNETT, Malleable and Gray Iron Works, Hamilton cor. of McWhorter st., Newark, N. J. Orders promptly attended to.

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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.

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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.

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