

Correspondents

P. C. M., of Ill.—Your remittance of \$4 is at hand. We will return your model and patent as soon as we can spare it.

C. B. Thompson, of St. Catharines, C. W., desires to correspond with some party who manufactures the best boot-crimping machine.

J. R. L., of Fla.—There is nothing new or patentable in the employment of saws for the purpose of trimming the edge of the board in the operation of tonguing and grooving.

L. H. Thomas, of North Adams, Mass., wishes to procure a machine for crimping zinc. Can some of our readers inform him?

B. M. & Co., of London.—Your letter of the 19th came to hand after your advertisement had expired, therefore too late to make the alteration in it which you propose.

D. A. M., of Pa.—You will find an engraving of a grist mill feeder on page 344, Vol. 12, Sci. Am., which we recommend you to employ in preference to the old plan.

M. L. P., of Ill.—You can procure pump augers of the Ames Manufacturing Company, Chicopee, Mass.

G. F. W., of Ohio.—Who are you? If you wish attention repeat your inquiries, and let us know who you are.

C. S. F., of Me.—You can obtain the book from Scribner's, Park row, this city. The price is \$2 50.

C. C., of Me.—You can procure a "Rose engine for ornamental turning" from J. Reece & Son, Haydensville, Mass. We do not keep machinery of this kind for sale.

J. M. B., of Pa.—The difficulty under which you labor at present is that the Commissioner of Patent's report is not yet published, and will not appear in all probability until near the close of this year.

H. J. K., of Mass.—A patent was granted to Thomas J. Spear, of New Orleans, La., July 16, 1841, for the following method of making indelible ink.

H. Z., of N. Y.—You ask, "How many engines can exhaust into the same condenser and keep the vacuum at twenty inches, with one air pump?"

N. S., of Wis.—The cheapest and best floating bridge which you can build for winter over a portion of the Mississippi is by logs with their ends put up and down the stream, well fastened together and planked on the top for the roadway.

J. E. B., of —It is not a new idea to generate steam in a boiler by injecting the feed water into the boiler or generator in fine spray.

C. R. T., of Mich.—Switches have been arranged so that while the cars are passing, they adjust it, to prevent them from running off the track.

M. B., of S. C.—Your ideas are good, but we could not carry them into practice without much trouble.

L. M. M., of N. Y.—A "horse power" means 2,000 pounds, lifted one foot high in one minute.

Z. D., of Ga.—On page 120, Vol. 5, Sci. Am., you will find an article on preparing hides for tanning.

A. T. H., of D. C.—Our former answer regarding the impossibility of obtaining an increase of power by simply increasing the diameter of a water wheel.

J. C., of Ohio.—We have cautioned the public about being too sanguine regarding the sugar crop to be obtained from the Chinese cane.

J. D., Jr., of Va.—You will find a full description of the new alloy resembling gold, on page 303, Vol. 12, Sci. Am.

M. T., of Iowa.—We are not acquainted with a single work which describes the process of making Bourbon whiskey, nor is there a book published on the distillation of American whiskeys.

S. H. B., of Ohio.—We cannot describe the hot air engine, as it now is, without drawings, so as to convey a proper idea of its construction and operation.

S. B. C., of Conn.—Umbre, either burned or raw, mixed with white lead, makes the most beautiful buff color for the outside of houses.

J. S., of Ohio.—The cartridge of the Prussian needle gun is not made of the most sensitive percussion material "within our knowledge."

J. R. B., of N. Y.—Can get the information he wants in regard to old coins by addressing Wm. Traver, of Camden, S. C.

J. S. D., of N. H.—Steel tools are tempered very hard by quenching them in cold salt brine when at a red heat.

Money received at the Scientific American Office on account of Patent Office business, for the week ending Saturday, March 13, 1868:—

D. & M., of Pa., \$30; W. M. B., of Del., \$25; W. Y. G., of Ky., \$25; L. R., of Mass., \$40; D. M. L., of Pa., \$80; W. I., of N. Y., \$25; P. S., of Va., \$25; J. W. C., of N. Y., \$30; J. H. W., of N. Y., \$20; L. W. H., of N. Y., \$35; N. A., of Pa., \$30; H. & B., of N. Y., \$65; A. M., of N. Y., \$25; H. M., of N. Y., \$105; J. H., of Mo., \$55; H. B., of Pa., \$25; S. & A., of Mich., \$30; G. M. L. McM., of Ohio, \$35; W. W., of N. Y., \$20; W. D., of Wis., \$25; W. W. H., of Ohio, \$12; J. B., of Conn., \$30; W. D. J., of N. Y., \$30; T. K. W., of Conn., \$30; T. & McC., of N. Y., \$32; C. & B., of N. Y., \$30; J. McC., of Ohio, \$10; F. & J., of Ohio, \$30; T. F., of N. Y., \$30; A. D. B., of Mass., \$30; E. J., of N. Y., \$30; J. W. G., of Vt., \$25; W. M., of Ill., \$30; D. O. De W., of N. Y., \$25; M. T., of Conn., \$32; S. W., of N. J., \$30; N. P. E., of Vt., \$30; W. & D., of Mass., \$30; T. O., of Miss., \$10; W. O. P., of N. Y., \$20; J. S. D., of N. Y., \$20; H. S. V., of N. Y., \$35.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 13, 1868:—

W. V. Jr., of N. Y.; H. B., of Pa.; W. M. B., of Del.; P. S., of Va.; J. B., of N. Y.; R. B., of N. Y.; E. K., of Pa.; W. Y. G., of Ky.; H. M., of N. Y., (3 cases); J. H., of Mo.; D. O. De W., of N. Y.; O. P. S., of Me.; W. W. H., of Ohio; J. V. A., of N. Y.; W. D., of Wis.; A. M., of N. Y.; M. T., of Conn.; T. & McC., of N. Y.; L. W. H., of N. Y.; J. S. D., of N. Y.; H. S. V., of N. Y.; O. S., of N. Y.

Literary Notices.

BLACKWOOD'S EDINBURGH MAGAZINE.—This able periodical for the present month (as republished) contains the "Journal of Capt. Burton," author of the "Pilgrimage to Mecca," and sent from Zanzibar, in East Africa, where he is now travelling.

THE ATLANTIC MONTHLY, for March, published by Phillips, Sampson & Co., of Boston, is sustaining its already high character for literary merit.

THE YOUNG MEN'S MAGAZINE for March is full of the most interesting and edifying matter. Its well-wishers are doing their utmost to extend its sphere of usefulness.

TO OUR SUBSCRIBERS.

BACK NUMBERS.—Complete sets of the present volume of the SCIENTIFIC AMERICAN can yet be furnished at the subscription price.

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, stating the name of the patentee, and date of patent when known, and enclosing \$1 as fee for copying.

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

TERMS OF ADVERTISING.

Twenty-five cents per line each insertion. We respectfully request that our patrons will make their advertisements as short as possible. Engravings cannot be admitted into the advertising columns.

SAMUEL McELROY, CIVIL ENGINEER.—Late U. S. Naval and Civil Engineer. Special attention paid to water-works with pumping power.

TO CONSUMERS OF ALUM.—POCHIN'S Patent Aluminous Cake, as a substitute for alum, is rapidly taking the place of alum, both in England and this country.

THE WORKS OF THE AUBIN GAS CO.—(General Office, No. 44 State st., Albany, N. Y.) as now perfected, are adapted to all materials and localities, and are in successful operation in villages, factories, and private dwellings.

ELECTRICAL APPARATUS.—ON RECEIPT of 25 cents, I will send full directions for making a cheap and simple apparatus, capable of giving strong shocks. Materials can be found anywhere, and can be made by anybody.

IMPORTANT TO INVENTORS.

AMERICAN AND FOREIGN PATENT SOLICITORS.—Messrs. MUNN & CO., Proprietors of the SCIENTIFIC AMERICAN, continue to procure patents for inventors in the United States and all foreign countries on the most liberal terms.

We are very extensively engaged in the preparation and securing of patents in the various European countries. For the transaction of this business we have offices at Nos. 55 Chancery Lane, London; 29 Boulevard St. Martin, Paris; and 36 Rue des Foyers, Brussels.

The annexed letter from the late Commissioner of Patents we commend to the perusal of all persons interested in obtaining patents.

MESSRS. MUNN & CO.—I take pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THIS OFFICE came through my hands.

MAGIC LANTERNS.—FOR ACADEMIES, Sunday Schools, and public exhibitions, with a large assortment of Scriptural, Astronomical and Temperance slides.

MACHINISTS' TOOLS.—A FULL SUPPLY OF every variety, and superior quality, now on hand, and made to order at short notice.

PICKPOCKETS DEFEATED.—YOUR WALLET secured to your pocket by convenient Patent Locks, which are outlasting everything before offered the public.

SPECIAL NOTICE.—FOREIGN DISSOLUTION of partnership heretofore existing between B. MOORE and W. S. CLARK, Negotiators of Patents and the sale of Patent Property.

FOR SALE.—I WILL SELL FOR \$5,000 A PATENT right that is worth \$50,000. For information address FRANCIS D. HAYWARD, Malden, Mass.

METALLIC LETTERS AND FIGURES.—To put on patterns. Price, 3 cts. 3 cts. 4 cts. 4 cts. 5 cts. Size, 5-16 3-8 1-2 5-8 3-4

FOR SALE.—I WILL SELL FOR \$5,000 A PATENT right that is worth \$50,000. For information address FRANCIS D. HAYWARD, Malden, Mass.

MODELS MADE AT JOHN STOKELLS' Clock Factory, 35 Platt street, New York City, on reasonable terms.

STEAM WHISTLES.—IMPROVED PATENT steam whistles manufactured by HAYDEN, SANDERS & CO., 306 Pearl street, New York.

FOR SALE.—FOUR VOLUMES OF THE SCIENTIFIC AMERICAN. Vol. 9, imperfect, Vols. 10 and 11 (perfect) bound, and Vol. 12 complete, in sheets.

THE SUBSCRIBERS ARE PREPARED TO furnish Plans, Specifications and Estimates for Water-works, or to contract for the installation of water into cities or towns.

ANOTHER WONDER.—BALDWIN'S Turbine Water Wheel (represented in No. 51, Volume XII, Sci. Am.), gives from 75 to 97 per cent of power, according to the size of wheel and head employed.

5000 AGENTS WANTED.—TO SELL FOUR new inventions. Agents have made \$25,000 on one—better than all other similar agencies together.

FOR SALE.—THE PATENT RIGHT OF LAMSON'S Combined Tool, an engraving of which appeared in No. 26, Vol. XIII, of the SCIENTIFIC AMERICAN.

A NEW BOOK.—THE SALE AND MANAGEMENT OF PATENTS.—Second edition now ready. Mailed on receipt of \$1.

HARRISON'S GRIST MILLS.—20, 30, 36 AND 48 inches diameter, at \$100, \$200, \$300 and \$400, with all the modern improvements.

E. FORBES, ARTIST, 89 NASSAU STREET, New York, Mechanical and General Draughtsman on Wood, Stone, &c.

STEAM ENGINES, STEAM BOILERS, Steam Pumps, Saw and Grist Mills, Marble Mills, Rice Mills, Quartz Mills for gold quartz, Sugar Mills, Water Wheels, Shafting and Pulleys.

HARRISON'S 30 INCH GRAIN MILLS.—Latest Patent.—A supply constantly on hand. Price \$300. Address New Haven Manufacturing Co., New Haven, Conn.

WOODWORTH PLANERS.—IRON FRAMES, to plane 18 to 24 inches wide.—at \$90 to \$110. For sale by S. C. HILLS, 12 Platt street, New York.

ALCOTT'S CONCENTRIC LATHE.—THIS Lathe is capable of turning under 2 inches in diameter with only the trouble of changing the dies and patterns to the size wanted.

SECOND-HAND MACHINISTS' TOOLS.—Consisting of 30 Engine Lathes, 9 Iron Planers, 4 Upright Drills, Hand Lathes, Chuck Lathe, Gear Cutters and Vices, all in good order, and for sale low for cash.

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.

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

ENGRAVING ON WOOD AND MECHANICAL DRAWING, by RICHARD TEN EyCK, Jr., 128 Fulton street, New York, Engraver to the Scientific American.

WOODWORTH PLANING MACHINES.—Having over \$40,000 worth now completed, I will sell, from this time henceforth, at a very reduced price, and am ready to construct any sized stock on hand at short notice.

LAP-WELDED IRON BOILER TUBES.—"Prosser's Patent."—Every tube is made ready to drill the plate-ends and set the tubes in the best manner.

SAWS.—HOE & CO.'S PATENT GROUND SAWS.—Planing, Trowel, &c., can be had, wholesale and retail, at the principal hardware stores, at the sales rooms of the manufacturers, 29 and 31 Gold Street, New York.

WELCH & GRIFFITHS.—ESTABLISHED 1831.—Manufacturers of Improved Patent Ground and Warranted Extra Fine Cast Steel Saws of the various kinds now in use in the different sections of the United States and the Canada, and consisting of the celebrated Circular Saw, Graduated Cross Cut and Tenon, Gang, Mill, Pit, Segment, Billet and Felloe Saws, &c., &c.

OIL! OIL! OIL!—FOR RAILROADS, STEAM ENGINES, and for machinery and burning. Pease's Improved Machinery and Burning Oil will save fifty per cent, and will not gum.

VAIL'S SPEEDWELL IRON WORKS, Morristown, N. J., manufacture Craig's Patent Double-acting Balance Valve Oscillating Steam Engines both stationary and portable.

SWISS DRAWING INSTRUMENTS.—A full stock of these celebrated instruments always on hand. Catalogue, 4th edition, with 250 illustrations of Mathematical, Optical and Philosophical Instruments, and attachment of illustrated sheet representing the Swiss instruments in the actual size and shape.

WOODWORTH IMPROVED.—TWO GOLD Medals have been awarded to me for my patent improvements upon the celebrated Woodworth Planing Machine.

HEICH'S CELEBRATED EGG BEATER, just patented, mixes Eggs, Cream, &c., with easiness, speed, &c., in a beautiful manner in ten to fifteen seconds.

RIGHTS FOR SALE OF A PATENT LIME-KILN which will burn less wood or coal, and more lime, than any other in use.