

Correspondents

J. L., of N. Y.—If you imagine that the machine you describe will operate of itself, you would be convinced of your error upon making a trial.

F. D., of N. Y.—The tarnishing of silver goods generally arises from the presence of a small quantity of sulphurous gas in the atmosphere.

D. M. B., of Tenn.—It is decidedly dangerous to use chalybeate water in a boiler. The purer the water is in a boiler, the better.

T. T. E., of Oregon.—You had better purchase Dr. Reidon the "Ventilation of American Dwellings," published by Wiley & Halstead, 351 Broadway, New York.

J. S. H., of Cal.—Carbonic acid has long been known to possess antiseptic properties, but it is not so strong or so convenient of application as pure carbon, or charcoal, which is the best antiseptic known.

J. L. & D. D.—It is not new to form journals hollow, with small openings in the portions of their peripheries which bear on the boxes, for the lubricating oil or water to percolate through.

H. P., of Mo.—Your ideas of the advantages of low roofed rooms are incorrect; a sitting-room cannot be too high.

A. B., of Mo.—The method of making and filling balloons, and a full history of aerial navigation, is given in Wise's "History and Practice of Aeronautics," published by J. A. Speel, Philadelphia, in 1850.

B. S., of Md.—We have received your communication to the Atlantic telegraph cable, and in view of the early arrival of intelligence of the result of the last effort to lay it, we have concluded to postpone the consideration of your views until after that period.

J. H. G., of Ky.—Your arrangement of cog wheels is well known, and is called step gearing. It is in use on some of the ocean steamships for driving screw propellers.

J. B., of Fla.—Mucilaginous substances, like slippery elm or potatoes, have been successfully used for removing scale from steam boilers. The material which we believe is generally considered best for covering steam pipes to prevent condensation, is felt, but either of the materials you propose we should think would serve very well.

L., of Cal.—We are not aware of any new deodorizing agent which has lately achieved great success, and we think that common chloride of lime, or, as it is called, "bleaching powder," is the best.

I. H. C., of Ohio.—We do not discover anything new in your filter. Small filters to be attached to hydrants have been so constructed that in filtering the water passed upward through the diaphragm, and provision was made by a two-way cock, to cause the water to pass upwards to be filtered, or downwards to wash away the dirt.

C. C., of Mich.—You have done wisely by submitting your invention for examination before exposing its peculiarities to the inspection of the curious.

Z. H. & C., of Ohio.—The "curiosities" you send for our examination are simply quartz stones. They are about equal in value to some pearls, which, it is said, were obtained in a small brook in Massachusetts after a week's labors.

G. C., of Mass.—Henry Wadsworth did not obtain a patent in 1856 for an adhesive plaster. It is not the subject of a patent; therefore, you can go on and make a plaster for wounds of isinglass or any other substance.

J. J. H., of Ala., and G. C., of Ga.—Procure one of Wheeler & Wilson's sewing machines. You cannot do better.

A. T. B., of Ohio.—Pitts' patent on separators expired on the 29th of last month. The patentee memorialized Congress for another extension, but the Committee on Patents made an adverse report. The invention is now public property.

Money received at the Scientific American Office on account of Patent Office business, for the week ending Saturday, July 3, 1858:—

- H. C. S., of Ohio, \$30; S. B. R., of —, \$33; M. M., of L. I., \$30; C. L. S., of Ky., \$35; J. J., of N. Y., \$30; E. R., of Wis., \$25; J. D., of Conn., \$30; J. M., of N. Y., \$30; R. P. E., of Pa., \$30; J. R. F., of Ohio, \$30; J. M. E., of N. Y., \$30; C. & S., of L. I., \$30; J. C. C., of N. Y., \$30; M. B. H., of —, \$30; J. M., of Iowa, \$50; J. H., of Ind., \$35; H. C. F., of Pa., \$55; G. H., of Conn., \$25; J. D. S., of Ohio, \$25; S. H., of N. H., \$30; I. P. H., of Ill., \$30; G. W. S., of Conn., \$35; C. P. S., of Cal., \$25; A. E. McC., of Minn., \$20; E. G. G., of N. Y., \$30; L. & G., of Conn., \$25; R. B., of N. Y., \$25; H. & H., of N. Y., \$30; A. W., of N. Y., \$30; S. B. S., of Mo., \$25; E. G. A., of Conn., \$30; F. D. L., of S. C., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 3, 1858:—

- S. N. L., of N. Y.; C. L. S., of Ky.; A. S., of N. Y.; S. B. S., of Mo.; G. H., of Wis.; R. B., of N. Y.; J. M. E., of N. Y.; G. W. S., of Conn.; C. P. S., of Cal.; E. R., of Wis.; J. D. S., of Ohio.

Literary Notices.

LOAD MONTAGU'S PAER. By G. P. R. James. Childs & Peterson, Philadelphia.—This is a new historical romance from the pen of this most prolific of modern authors, and will no doubt be hailed with pleasure by thousands of readers who devour each new work as it comes from Mr. James' pen.

BLACKWOOD'S MAGAZINE.—The above magazine for this month is a most entertaining number. Messrs. Scott & Co., No. 54 Gold street, this city, are the publishers of the four British Quarterlies, namely: the Edinburgh, Westminster, London and North British Reviews, as well as the above magazine, and to their credit it should be related, they voluntarily pay over \$3,000 per annum to the foreign publishers.

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.

*. All advertisements must be paid for before inserting.

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. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris; and 36 Rue des Eperonniers, Brussels.

Circulars of information concerning the proper course to be pursued in obtaining patents through our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the principal office or either of the branches.

Communications and remittances should be addressed to MUNN & COMPANY, No. 128 Fulton street, New York.

I 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 hundred of the business of the office came through your hands.

SELF-ACTING WOOD-TURNING LATHES.—A. Warril's patent having been three years in practical operation, and greatly improved, is now the most perfect, simple, practical lathe in use, giving general satisfaction.

MICROSCOPES! MICROSCOPES! MICROSCOPES.—No. 101 Microscope, brass body six inches high, 1 lens, power 35 diameter—\$2.

THE NEW YORK ENGINEER, MACHINISTS' AND IRON FOUNDERS' JOURNAL, is published by JOHN HILLYER, 9 Spruce street, New York. ONE DOLLAR per annum.

DISTILLERS' AND HOG FEEDERS' ATTENTION.—Robinson's Calimilarity. The subscriber will furnish a receipt to distillers and hog feeders that will keep hogs healthy, and prevent them from eating the pens, and will change the character of their excrement in two days after they are put into the pens.

ANDREWS' CENTRIFUGAL FORCE AND Suction Pumps.—Illustrated in Sci. Am., October 24 1857. Sizes, from 60 to 4,000 gallons per minute.

NEW ORLEANS.—VOSE & WEST, Commission Merchants for the sale of Machinery, Agricultural Implements, &c., New Orleans. Refer to W. P. Converse & Co., 42 Pine street, New York.

WATER WHEELS.—VANDEWATER'S Improved Jonval Turbine Water Wheel is now manufactured in the best manner by MASON & BLAKENEY, Springfield, Ohio. Also Ostot's Saw Gunner. Address as above.

E. A. COEN—ENGINEER AND CONTRACTOR for the erection of Coal Gas Works. Plans and specifications furnished, and works erected for cities, villages, factories, &c. Gas works altered and repaired.

\$5,000 WILL BUY THE PATENT right of an improved machine for Cutting Glazier's Points, Shoe Nails, &c.; warranted to cut 6,000 points per minute. Address J. G. BAKER, New Brunswick, N. J.

ECCENTRIC SCREW AND GRIPPING WRENCH—Hyde's patent—for sale by all hardware stores. Proprietors, GRAY BROTHERS, New York City.

EVERY MILLWRIGHT, ALL MILL-OWNERS, and those interested in hydrodynamics, should become acquainted with the merits and principles of the improved Fournoyon Turbine Water Wheel, or the "Universal Turbine," a wheel the most economical in the use of water, and giving the highest percentage, with a partially raised gate, of any yet discovered.

N. E.—For low falls of one, two, or three feet, also for any fall, it will surpass all others.

BALLOONS FOR THE FOURTH OF JULY.—Illuminated and tri-colored—a great amusement. Size from 6 to 20 feet circumference. Price from 50 cents to \$3 each.

SPECIAL EXTRAORDINARY OFFER.—The great fifty cent Pictorial Monthly. The United States Journal commences its tenth volume with the July number; and determined, regardless of any outlay, to give it an immediate introduction into every neighborhood, we make the following special offer:—

WOODWORTH PLANING MACHINES.—Mortising, Tenoning, and Sash Machines, and a full assortment of wood-working machinery, at greatly reduced prices. Address CHARLES H. SMITH, 135 North Third st., Philadelphia, Pa.

SECOND-HAND MACHINERY AT VERY low prices for cash.—Steam Engines, Slide Lathes, Planing Machines, Drills, Slotting Machines, &c.; also a variety of Mortising, Tenoning, and Sash Machines, &c., all warranted in good running order.

SLIDE LATHES, IRON PLANERS, Upright Drills, Slotting and Boring Machines, Universal Chucks, and a large assortment of machinists' tools, at greatly reduced prices.

FOR SALE AT A BARGAIN.—ONE NEW 13 ft. Iron Planer, weight 10,000 lbs. One new 15 ft. Engine Lathe, swing 30 inches. One second-hand Engine Lathe, swing 21 inches.

S. D. BARNETT, MALEABLE AND GREY Iron Foundry, Hamilton, corner of McWhorter st., Newark, N. J. Orders promptly attended to.

REED'S PATENT PORTABLE AND STATIONARY STEAM ENGINES, unequalled for simplicity, durability, and economy.

BELTING AND PACKING.—Niagara Falls Paper Manufacturing Co., Niagara Falls, April 20, 1858. United States Gutta Percha Co.: We duly received the Gutta Percha Belting ordered from you, and after giving it a thorough test the past winter, on our heaviest engines, constantly exposed to water, ice and oil, and making 140 to 160 revolutions per minute; and again on two of our largest "Gwynne Pumps," making from 600 to 700 revolutions per minute, they have given us entire satisfaction, and we think it decidedly the best belting we ever used, and you may look for our future orders as required.

ROBINSON'S CORN PLANTER.—Patented May 18th—plants in hills, and in straight parallel rows, two or three rows at a time. Rights for sale by DURGIN & CO., over Gerrish Market, Boston, Mass.

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

FIFTH EDITION.—CATALOGUE CONTAINING 250 illustrations of Mathematical, Optical and Philosophical Instruments, with attachment of a large sheet representing the Swiss Instruments in their actual size and shape, will be delivered, on application, to all parts of the United States, by sending 12 cents in postage stamps.

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.

HARRISON'S GRIST MILLS.—20, 30, 35 and 48 inches diameter, at \$100, \$200, \$300 and \$400, with all the modern improvements. Also, Portable and Stationary Steam Engines of all sizes, suitable for said Mills. Also, Bolters, Elevators, Belting, &c., &c. Apply to S. C. HILLS, 12 Platt st., New York.

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. The largest assortment of the above in the country, kept constantly on hand by WM. BURDON, 102 Front street, Brooklyn, N. Y.

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

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.

SECOND-HAND MACHINISTS' TOOLS.—Consisting of 20 Engine Lathes, 9 Iron Planers, 4 Upright Drills, Hand Lathes, Chuck Lathes, 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.

PECK'S PATENT DROP PRESS.—FOR Jewelers, tin and copper workers, gun and other forgings, &c., manufactured by the patentee, MILO PECK & CO., New Haven, Conn.

WHEELER & WILSON'S SEWING MACHINES, 343 Broadway, New York, received the highest premiums awarded in 1857 by the American Institute, New York; Maryland Institute, Baltimore; and at the Maine, Connecticut, Illinois, and Michigan State Fairs.

NEW HAVEN MANUFACTURING CO.—Machinists' Tools, Iron Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks, &c., on hand and finishing. These tools are of superior quality, and are for sale low for cash or approved paper.

PHILADELPHIA RIVET WORKS.—Manufacturers of the celebrated F brand Boiler, tank, and gasometer rivets, of every diameter, length, and head.

CLARK'S REGULATOR.—FROM TEN TO twenty-five per cent saving in fuel is guaranteed in the use of Clark's Patent Steam and Fire Regulators; besides giving the most perfect regularity of power at any desired pressure, and no fear of explosions.

CIRCULARS WITH CUTS, ILLUSTRATING steam engines and machinery for making lumber, shingles, staves, heading chairs, bedsteads, and wheat-cleaning machinery, bran disters, &c., sent for a postage stamp, by applying to L. A. SPALDING, Lockport, N. Y.

ENGRAVING ON WOOD AND MECHANICAL DRAWING, by RICHARD TEN BYCKE, Jr., 124 Fulton street, New York, Engraver to the Scientific American.

PAGE'S PATENT PORTABLE CIRCULAR SAW MILL, and Portable Steam Engines and Boilers mounted on substantial wheels, ready to saw lumber, thrash wheat or gin cotton.

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 sizes not on hand at short notice.

INDUSTRIAL MUSEUM.—CONTRIBUTIONS of new and valuable machines, merchandise, and specimens of fine art are most respectfully solicited at No. 5 Washington street, Boston, Mass.

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. This oil possesses qualities vitally essential for lubricating and burning, and found in no other oil.

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

CORLISS' PATENT STEAM ENGINES.—About 250, most of them from 40 to 400 horse power, are now in operation. On application, pamphlets will be sent (by mail), containing statements of responsible manufacturing companies where these engines have been furnished, for the saving of fuel, in periods varying from 2 1/2 to 5 years.

PATENT OFFICE MODELS CAREFULLY made on scientific principles, at low prices, by H. SHLARBUM & CO., 509 Broadway, New York. References at the office of this paper.