

TO CORRESPONDENTS.

H. D., of Wis.—There is no work on millwrighting published of the character you mention; one is much wanted.

F. S., of Miss.—You are right respecting the value of water power. What other would you have than a second for measuring velocity.

H. H., of Me.—A cannon having a spindle running longitudinally through its bore, and the ball made with a hole to fit the spindle, are not new devices.

G. L., of N. Y.—The foreign books you mention we have not; we do not bring to mind any patent with which yours would interfere.

A. J. B., of Mich.—Address Webber & Hartshorn, of Gardner, Me., for lathes for spokes, &c.

A. W. A., of Mich.—Double axles, and other plans for allowing car wheels to turn independently when passing curves, have long been known.

T. McD., of Ct.—Your improvement in locomotives appears to be novel. If experiment had settled the fact that it would accomplish all that you suppose, perhaps we should comply with your request to make engravings at our own cost.

H. W. W., of Mass.—We think your invention possesses one patentable feature, viz., the method of regulating the pressure of the spring.

J. W. P., of Mich.—Yours is a very old device for feeding boilers. A Mr. Sergeant, of Cincinnati, has a patent for a very simple apparatus on this principle, which is entirely self-acting, and regulates the level.

J. M. N., of Vt.—Your plan of using borax in welding is very useful; it is, however, well known and extensively practiced.

J. C. S., of Ohio—It is true all the great capes on our globe run out to the south, but this is easily explained by looking on a globe: all the land on our planet, excepting Australia, hugs the north and the water the south, therefore the points of the land must run out to the south into the water.

J. M. W., of Pa.—We have read your article on a universal system of weights and measures, and think highly of it, but it would not look well to use turned types for the new figures.

R. M. C., of Texas—Mr. S.'s method of solving the question, is the best way to settle it. We await such a conclusion.

J. M., of Phila.—Yours will appear next week.

J. C., of Tenn.—We have your article on the flight of birds, and may find room for its publication in a few weeks.

W. C. J., of N. C.—We do not know where you can find a spark arrester for the purpose stated by you.

F. M. H., of Ill.—In the year 1684, Nathan Heckford took a patent in England for making sails to go the horizontal way for wind mills, and for operating pumps for draining purposes.

J. L. D., of N. Y.—Yours next week.

J. H. B., of Mass.—Get Bourne's catechism on the steam engine, and Hodge on the steam engine.

M. D. L., of N. Y.—If your house is to be of brick, you must get registers set in the walls; if of wood, you must make the windows ventilators.

J. S., of Ky.—In requesting the publication of your long communication you ask too much.

R. T., of New York.—The centrifugal force theory of obtaining power from nothing never was advocated by the inventor of the pump.

B. J. B., of L. I.—We have been told there is plenty of fresh water on Long Island to supply two cities twice as large as Brooklyn.

D. D., of N. Y.—The plane of a wheel is understood to mean the plane of revolution, and to extend ad infinitum.

W. T., of N. Y.—We are not acquainted with any work describing the process of making malleable iron castings.

J. S., of C. W.—We have never heard of a plan like yours for laying telegraph wires, but if anything were to go wrong with a wire, the rail would have to be lifted.

N. C., of Ohio—We have not received the printed description of the engine referred to.

G. R. D., of Ky.—The receipt for the whitewash is to slack your lime in hot water and add two pounds of the sulphate of zinc and salt to the bushel of lime.

T. M. P., of Md.—The French Academy of Sciences still offers the reward. You can send your medicine by express to Paris.

H. M. P., of Mass.—Yours will receive attention.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, June 30:—

J. H., Jr., of Wis., \$55; J. B., of Ill., \$35; F. A., of Ct., \$25; W. G. H., of Pa., \$25; J. L. L., of Ala., \$25; R. H.,

of Ill., \$25; J. B. D., of O., \$30; J. H. G., of Ky., \$20; D. N., of Mass., \$30; W. S., of N. Y., \$30; T. V., of Cal., \$10; W. & C., of Ct., \$30; M. & S., of N. C., \$30; E. P. T., of Wis., \$55; H. E., of N. Y., \$30; S. & N., of L. I., \$30; C. W. B., of Ct., \$55; W. B., of O., \$5; S. B., of O., \$25; H. S., of O., \$5; G. & F., of La., \$25; S. M., of Pa., \$15; G. B. C., of N. J., \$30; K. & H., of Ill., \$25; O. B., of N. Y., \$55; E. W. G., of Mass., \$50; S. L., of L. I., \$30; M. R., of Pa., \$30; E. H., of Ct., \$25; R. K., of Mass., \$57; A. M. F., of N. Y., \$30; D. W., of Pa., \$25; B. F. & Sons, of N. C., \$25; J. G., of Mass., \$30; L. C., of N. Y., \$10; P. H. W., of N. Y., \$30; E. G., of Mass., \$30; J. W. K., of N. H., \$35; J. B., of Ala., \$30; S. H. G., of O., \$30; J. F. H., of Pa., \$25; J. & E. A., of N. J., \$25; D. W., of N. Y., \$25; A. H., of N. Y., \$40

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 30:—

J. B., of Ky.; W. W. H. M., of N. Y.; D. N., of Mass.; W. G. H., of Pa.; J. L. I., of Ala.; J. H., Jr., of Ill. (2 cases); R. H., of Ill.; D. W., of N. Y.; S. M., of Pa.; G. & F., of La.; H. S., of O.; W. A. S., of Mass.; J. F. H., of Pa.; E. H., of Ct.; J. & E. A., of N. J.; B. F. & Sons, of N. C.; D. W., of Pa.

Important Items.

BACK NUMBERS AND VOLUMES.—We have the following numbers and volumes of the Scientific American, which we can supply at the annexed prices:—Of Volume 5, forty numbers, bound, \$1.75. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Volume 7, all; price in sheets, \$2; bound, \$2.75. Of Volume 8, none complete, but about 30 numbers in sheets, which will be sold at 50 cents per set. Of Volume 9, bound, \$2.75. Of Vol. 10, all except Nos. 17, 25, 26, 27, and 28, 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 enclosing \$1 for fees for copying.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 4 lines, \$1.00; 8 lines, \$2.00; 12 lines, \$3.00; 16 lines, \$4.00.

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.

IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had ten years' practical experience in soliciting PATENTS in this and foreign countries, beg to give 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 twenty of all the Patents issued each week are on cases which are prepared at our Agency.

Able corps of Engineers, Examiners, Draftsmen and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others possess, enable us to give the most correct counsel to inventors in regard to the patentability of inventions placed before us for examination.

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. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. 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. Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application.

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. This paper is read by not less than 100,000 persons every week, and enjoys a very wide spread and substantial influence.

Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S., go through our agency.

American and Foreign Patent Attorneys, 125 Fulton Street, New York; 32 Essex Street, London; 29 Boulevard St. Martin, Paris; 6 Rue D'Or, Brussels.

LATHES FOR BROOM HANDLES, &c.—We continue to sell Alcot'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.

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"We know of no American Periodical which presents a greater abundance of valuable information on all subjects relating to human progress and welfare."—N. Y. Tribune.

FOR THREE DOLLARS in advance, a copy of each of these three Journals will be sent one year. Address prepaid, MUNN & CO., No. 37 Broadway, N. Y.

SOUTHERN STATESMAN.—The above is the title of a first class newspaper published at Prattville, Ala., the largest manufacturing village in the State. It has a large and increasing circulation in several very wealthy counties lying on the Alabama River, and is therefore a valuable medium for Southern manufacturers and merchants who desire to extend their trade at the South. \$2 a year. Advertising—10 lines \$1; 3 lines, \$2.

LUCKETT & ORMSBY, Editors and Proprietors.

A NOVELTY—AMES' PATENT POLYGRAPH.—A writing machine, advertised and illustrated in this Journal on the 14th of April last, by D. Shepley, Esq., has had several improvements in the finish of the machine, and now an ornamental cast iron frame, plate glass writing surface, and best gold pens, and will write two copies simultaneously, and fac-similes. A labor saving machine for the merchant, superseding the copy press, being perfect pen-written copies, one in bookish device. For professional men and copyists a very great desideratum. Will be sent to order (enclosing \$15.) by express or otherwise, to any section of the country as directed. And with such orders propositions will be entertained to canvass territory for the sale of machines, in whom canvassers very favorable terms will be given. H. BROWN, Sole Agent and Manufacturer, No. 9 Canal st., New York. 433\*

INVENTORS' BUSINESS AGENCY.—Devoted exclusively to Sales, Colman & Williamson, No. 6 Wall street, New York. The undersigned having peculiar and extensive facilities, and well acquainted with the business in all its details, have opened an office for the negotiation and sale of Patent Rights and New Discoveries for the United States and Europe, on the most favorable terms, and under the general title of the Inventor's Business Agency. Inventors, capitalists, and energetic business men, are respectfully invited to call at our office or to correspond with us confidentially. References—J. J. Greenough, Solicitor of Patents; James Bogart, Esq.; Winslow, Lanier & Co. Bankers; Harper & Brothers, New York City; Hon. J. C. Otis (Carpenter) and J. C. Crossman, Esq. Boston; Hon. D. S. Gregory, Jersey City; Robert Farman, Esq. Washington, D. C. SAMUEL COLMAN, M. J. WILLIAMSON.

SOUTHERN AND SOUTH WESTERN PATENT AGENCY for purchase and sale of Patent Rights, and sale of Patent Rights, under direction, patronage, and control of the Southern and South-Western Mining and Manufacturing Companies. Offices, East Bay and Commercial Wharf, Charleston, South Carolina, and No. 1, Broadway, New York. Sample specimens, specifications, and circulars wanted. Address, LANGLEY & CO., Commission Brokers and Factors, as above.

KLINGE'S RIGHT AND LEFT HAND DOOR Lock and Latch Lock.—These Locks are so simple in construction that they can be manufactured cheaper than any other kind of right and left hand locks. They are safe and durable, and will not fail to give satisfaction. The undersigned will sell both patent rights for door lock and latch lock on reasonable terms. Apply to JOHN C. KLINGE, Pittsburgh, Pa.

1855—WOODWORTH'S PATENT Planing, Tonguing, and Grooving Machines.—The subscriber is constantly manufacturing, and has now for sale the largest and best assortment of these unrivalled machines to be found in the United States. Prices from \$85 to \$1450. Rights for sale in all the unoccupied towns in New York and Northern Pennsylvania, JOHN GIBSON, Planing Mills, Albany, N. Y. 4310\*

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WANTED.—A partner in agriculture manufacturing business. Address MECHANIC, with real name, Philadelphia, P. O. 432\*

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PAPER MILL FILTERS.—Wanted, a Filter or Filters on a plan by which, without too much expense, muddy water (red clay deposit) can be filtered for use of four engines running on newspaper. A reward of One Hundred Dollars will be paid to the person suggesting the plan, which may be adopted successfully. Address PAPER MILL, Columbus, Geo. 426\*

THE AMERICAN ROCK DRILLING CO. invite attention to their superior machine (patented) which, after thorough trial is believed to be the simplest and most efficient in use for artesian wells, heavy excavations, quarries, mines and for face dressing. The Company are prepared to dispose of rights throughout the United States, to furnish machines, horse powers and steam engines with fixtures, complete, adapted for any and all kinds of rock work, or to contract for excavations, etc., on public or private works in any part of the Union. Models may be examined at the Office of the Co., or machines may be seen in operation and further information obtained on application to T. H. LEAVITT, Agent and Treasurer, No. 40 State St., Boston 416\*

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FOR SALE.—Two patents (of late date) for improved Safety Locks; both locks are unpickable and powder-proof; suitable to manufacture, and meet with a good sale. Address LINUS YALE, Newport Herkimer Co., N. Y. 393\*

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A. B. ELY Counselor at Law, 52 Washington st., Boston, will give particular attention to Patent Cases. Refers to Messrs. Munn & Co., Scientific American. 161y\*

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