

TO CORRESPONDENTS.

J. W., of Canada West—Your stream of water measures fifty-two cubic inches, and your fall is fifteen feet. Are you not mistaken about the quantity of water, for, if this is all that falls every second, it is not equal to half a horse power.

E. G. B., of Ohio—An apparatus such as you describe for opening and closing window blinds by means of a rack and segmental pinion has long been known.

A. S. S., of N. Y.—You can procure a microscope such as you want of Benj. Pike, Jr., No 294 Broadway.

F. R. B., of Ill.—You can purchase a good fire engine of James Smith, 39 Worth street, or Alfred Carson, 155 Mott street, New York.

W. R. D., of Ohio—We do not know the price of Mr. Francis' work. We replied to your inquiry about a work on valves. We are acquainted with no special work on the subject.

T. & B., of C. W.—As stated, your machine for sawing from the log is very simple, but you have not clearly described how you shift the log for each cut.

J. W. H., of N. Y.—Regnault's Chemistry can be obtained of Appleton & Co., this city. It is the one we would recommend to you.

S. W., of Ohio—We do not understand your question. Do you mean "does it make any difference in the rapid generation of steam in a boiler, whether it is perfectly full of water, or has a space for steam?"

A. J. H., of N. Y.—There is no single book that will answer your purpose.

A. K., of Michigan—Your boiler, we conceive, is smaller than we would try to use for a cylinder of nine inch bore and twenty inch stroke.

W. B. D., of S. C.—The specimen of mineral which you have sent us has no appearance of containing silver.

A. R., of Del.—Your plan of paying out the submarine telegraph cable appears to be good.

F. C., of New York—We are not acquainted with a case of fire caused by felling surrounding steam pipes, but it is perfectly possible that such cases have occurred by steam of high pressure in the pipes, and by oil or grease in the felling.

A. S., of Montreal—You must agitate for a reformation in gas making in your city. We are not acquainted with a small apparatus suitable to your case, and that of other private consumers.

N. R. M., of N. Y.—You are right respecting the pressure of water on the dam, for the pressure is according to the height or depth of water; it cannot be otherwise.

P. S., of Va.—Your plan of trimming saws is new to us so far as it relates to trimming out the root of each tooth, and this may be patentable, but the form of the top of the tooth is not new nor patentable.

D. C. W., of Mich.—Your rat trap is a novelty, and we are of the opinion that a patent can be obtained for it. It is very complicated, and on that account objectionable.

A. B., of Ohio—You had better defer other notices of your invention until illustrations are published. You may deem it for your interest to have it published at some future time.

J. E. L., of N. Y.—We do not know any other address for Mr. M. than Springfield, Mass. He was there the last address we have from him.

E. J., of Ct.—The sketch and description of your builder's telescopic level have been examined; it seems to be an ingenious apparatus, and we think a patent can be obtained for it.

S. W. H., of Vt.—The Woodstock man, to whom you refer, we do not know, and therefore cannot answer your inquiry. By reference to the lists of patents for the past three weeks, as they were published in the columns of this paper, you will find all the cases that have been issued.

W. H. C., of Mich.—Constructing a churn so as to admit of air being forced through the cream by means of a bellows, is no new thing. It has been done previous to your invention. Churn improvements are very numerous, and novelties are hard to reach in this class of subjects.

O. L., of Ill.—We are not acquainted with any machine for making baggets. Such an invention is much needed, and would undoubtedly prove of great value.

F. G. L., of Pa.—The coloring matter of the blood is called *hematin*—a Greek word. It may be obtained in the shape of a powder by evaporating blood in open air.

M. B., of Vt.—We hope to see several amendments to the Patent Laws passed through Congress this winter.

N. N., of Mass.—Your submarine armor strikes us as good. Think it could be patented. Presume the Allies would pay a handsome reward just now for such an invention, if through its use the great war vessels, now sunk in the harbor of Sevastopol, could be raised.

C. D., of S. C.—We saw several specimens of Algiers cotton on exhibition in Paris. They were excellent, and compared favorably with specimens exhibited from Georgia and South Carolina.

IRON FOUNDERS MATERIALS—Viz., Pulverized Sea-coal, Anthracite, and Charcoal Soapstone and Black Lead Packings, also Flour for Cores, Fire Bricks, Fire Clay, Fire and Molding Sand for sale by G. O. ROBERTSON.

L. B. D., of Ohio—Samuel Curtis' patent was granted December, 1837, therefore it expired in 1851.

Money received at the SCIENTIFIC AMERICAN Office on account of Patent Office business for the week ending Saturday, Sep. 29, 1855.

A. H., of Ky., \$255; J. H., of N. Y., \$25; E. G., of Vt., \$25; J. S. T., of N. Y., \$25; J. H., of O., \$5; J. W. R., of O., \$50; B. B. R., of R. I., \$30; J. M., of R. I., \$30; H. W. H., of N. Y., \$30; L. J. A., of Ct., \$32; M. P., of Vt., \$30; J. P., of Ga., \$23; J. A., of N. Y., \$35; J. W. H., of N. Y., \$25; N. H. F., of N. Y., \$30; T. D., of N. Y., \$30; St. J., & B., of N. Y., \$60; G. E., of Wis., \$30; T. & H., of O., \$30; J. C., of Mo., \$30; B. & B., of Ct., \$25; N. C., of N. J., \$30; F. & B., of Pa., \$10; B. & C., of Mich., \$30; C. M. S., of Mass., \$30; E. L. H., of N. Y., \$25; H. R. B., of N. Y., \$34; D. H. D., of Me., \$25; T. M. B., of O., \$30; G. A. C., of Pa., \$62; C. T. C., of N. Y., \$25; W. A. McD., of N. Y., \$25; J. A. B., of — \$55.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 29:—

Z. J. G. B., of Ill.; D. H. D., of Me.; R. G. R., of Ct.; J. W. R., (2 cases), of Ohio; E. G., of Vt.; J. H., of N. Y.; J. S. T., of N. Y.; A. K. C., of Ct.; L. J. A., of Ct.; T. H. C., of N. Y.; W. A. McD., of N. Y.; J. H., of Ohio; J. W. H., of N. Y.; C. T. C., of N. Y.; B. & B., of Ct.; A. L. B., of N. J.; J. N., of N. Y.; E. L. H., of N. Y.; B. & C., of Mich.; A. C., of N. J.

Important Items.

BACK NUMBERS AND VOLUMES—The following numbers and volumes of the SCIENTIFIC AMERICAN, are for sale at this office, at the annexed prices—Volume VI., Vol. VII., Vol. IX., and Vol. X., complete. Price, bound, per Volume, \$2.75. Numbers in sheets, complete, \$2. Of Volumes IX. and X., we have also about 40 numbers each, not consecutive, which will be sent by mail on receipt of \$1.

RECEIPTS—When moneys 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.

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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 one-third of all the Patents issued each week, are on cases which are prepared at our Agency. An able corps of Engineers, Draftsmen, 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, we are able to give the most correct counsels 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 or 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 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.

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GREENACK MACHINERY DEPOT—No. 153 Greenack street, New York, keep always on hand, Lathes, Planers, Drills, Steam Engines, Woodworth's Patent Planing Machine, Helting, &c., in great variety. Tools furnished of any size, to order, and of the best quality.

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