

IMPORTANT TO INVENTORS.

PATENTS FOR SEVENTEEN YEARS.

MESSRS. MUNN & CO., PROPRIETORS OF THE SCIENTIFIC AMERICAN, continue to solicit patents in the United States and all foreign countries, on the most reasonable terms.



United States Patent Office, and with the greater part of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawing and description to this office.

THE EXAMINATION OF INVENTIONS.

Persons having conceived an idea which they think may be patentable, are advised to make a sketch or model of their invention, and submit it to us, with a full description, for advice. The points of novelty are carefully examined, and a written reply, corresponding with the facts, is promptly sent free of charge.

PRELIMINARY EXAMINATIONS AT THE PATENT OFFICE.

The service we render gratuitously upon examining an invention does not extend to a search at the Patent Office, to see if a like invention has been presented there, but is an opinion based upon what knowledge we may acquire of a similar invention from the records in our Home Office.

HOW TO MAKE AN APPLICATION FOR A PATENT.

Every applicant for a patent must furnish a model of his invention if susceptible of one; or, if the invention is a chemical production, he must furnish samples of the ingredients of which his composition consists, for the Patent Office.

The revised Patent Laws, enacted by Congress on the 21 of March, 1861, are now in full force, and prove to be of great benefit to all parties who are concerned in new inventions.

The duration of patents granted under the new act is prolonged to SEVENTEEN years, and the Government fee required on filing an application for a patent is reduced from \$30 down to \$15.

Table listing fees for patent applications: On filing each caveat, \$10; On filing each application for a Patent, except for a design, \$15; On issuing each original Patent, \$20; On appeal to Commissioner of Patents, \$20; On application for Re-issue, \$30; On application for Extension of Patent, \$50; On granting the Extension, \$50; On filing a Disclaimer, \$10; On filing application for Design, three and a half years, \$10; On filing application for Design, seven years, \$15; On filing application for design, fourteen years, \$30.

The law abolishes discrimination in fees required of foreigners, excepting natives of such countries as discriminate against citizens of the United States—thus allowing Austrian, French, Belgian, English, Russian, Spanish and all other foreigners except the Canadians, to enjoy all the privileges of our patent system (but in cases of designs) on the above terms.

During the last seventeen years, the business of procuring Patents for new inventions in the United States and all foreign countries has been conducted by Messrs. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN; and as an evidence of the confidence reposed in our Agency by the inventors throughout the country, we would state that we have acted as agents for at least TWENTY THOUSAND inventors!

CAVEATS.

Persons desiring to file a caveat can have the papers prepared in the shortest time by sending a sketch and description of the invention. The Government fee for a caveat, under the new law, is \$10.

ASSIGNMENTS OF PATENTS.

Assignments of patents, and agreements between patentees and manufacturers are carefully prepared and placed upon the records at the Patent Office. Address MUNN & CO., at the Scientific American Patent Agency, No. 37 Park Row New York.

It would require many columns to detail all the ways in which inventors or patentees may be served at our offices. We cordially invite all who have anything to do with Patent property or inventions to call at our extensive offices, No. 37 Park Row, New York, where any questions regarding the rights of patentees will be cheerfully answered.

Communications and remittances by mail, and models by express (prepaid), should be addressed to MUNN & CO., No. 37 Park Row, New York.

REJECTED APPLICATIONS.

We are prepared to undertake the investigation and prosecution of rejected cases on reasonable terms. The close proximity of our Washington Agency to the Patent Office affords us rare opportunities for the examination and comparison of references, models, drawings, documents, &c.

All persons having rejected cases which they desire to have prosecuted are invited to correspond with us on the subject, giving a brief story of the case, inclosing the official letters, &c.

FOREIGN PATENTS.

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 26 Rue des Eperonniers, Brussels.

Circulars of information concerning the proper course to be pursued in obtaining patents in foreign countries through our Agency, the requirements of different Government Patent Offices, &c., may be had gratis upon application at our principal office, No. 37 Park Row, New York, or any of our branch offices.



J. K., of N. B.—At the time when postage-stamps were used as a currency many soiled ones were improperly used to pay postage on letters. The gathering-up of stamps that had been used became quite a business, and the Post-office Department was defrauded to a large extent.

E. C. P., of N. Y.—The sample of fiber which you have forwarded to us is beautiful and silky, but not sufficiently strong to work into durable goods. You should make experiments to determine whether it can be spun into yarn and made into suitable fabrics.

G. C. H., of Pa.—A good index-plate is a very difficult thing to obtain. All shops profess to have the best. We have been told that the Novelty Iron Works, in this city, have the most correct ones in the country.

J. W., of Mo.—So far as we know, there is no special work published on the hatching of eggs and the raising of chickens.

J. B., of N. H.—Smoke-consuming furnaces are not required where anthracite fuel is used for boilers, but west of the Alleghenies, where bituminous coal is the common fuel, a good smoke-consuming arrangement is much wanted.

J. D. W., of D. C.—Write to Captain Ericsson, of this city, if you desire to buy his engines. We are not agents for the sale of any machinery.

J. A. W., of Maine.—We stated that while no springs were found on the very highest point of a mountain many were found at lower elevations. Your statement that springs are found fifty feet below the summit of Mount Washington confirms our views as to the sources of rivers.

D. A. C., of Minn.—The specimen of ore which you have sent us contain but a small amount of copper; much richer ores however, may be found in the vicinity where they were obtained.

J. W. D., of Mass.—Gelatin is pure glue. Perhaps the Italian image-makers employ it for molds in casting plaster figures as described on page 386, Vol. I of "Ure's Dictionary of Arts and Manufactures."

B. H. McN., of Ohio.—You will find the article describing how a dead black is produced on brass, on page 182, Vol. VII (new series) of the SCIENTIFIC AMERICAN.

E. J. S., of Mass.—There is no provision in our patent laws which requires a patentee to put his invention into use within a certain time, except in the case of a foreigner.

C. C., of Ind.—Messrs. Todd & Rafferty, of Paterson, N. J., manufacture all kinds of machinery. They have enough orders now on hand to keep them busy for six months.

H. C. B., of Pa.—The copper deposited in a galvanic battery from a copper solution is the kind referred to as used for bronzing the cast-iron facade in Paris. All that is known of the process is given on page 171, current volume of the SCIENTIFIC AMERICAN.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, March 18 to Wednesday, March 25, 1863:—

- W. C. H., of Ohio, \$25; C. E. H., of Mass., \$250; I. P. T., of N. Y., \$360; L. D. C., of Mich., \$41; J. B., Jr., of Mass., \$25; G. E. S., of Iowa, \$15; L. W. P., of Mass., \$29; W. H. B., of N. Y., \$25; D. H. P., of Conn., \$16; G. J., of N. Y., \$25; R. P. M., of Mich., \$30; C. D. R., of Ill., \$10; J. A. McC., of Ky., \$20; W. M. D., of N. Y., \$16; H. N., of N. Y., \$16; W. F. G., of Ohio, \$36; K. & M., of N. Y., \$15; S. H., of N. Y., \$20; S. E. T., of N. J., \$41; L. R., of N. Y., \$20; W. & P., of N. Y., \$25; T. J. D., of N. Y., \$41; F. A. De M., of N. Y., \$26; W. J. G., of Ohio, \$25; W. B., of Pa., \$41; W. & P., of Mass., \$15; N. S., of Ind., \$15; G. M., of Vt., \$16; J. S., of Mich., \$16; E. H., of Mass., \$41; H. B. & G. A. M., of Mich., \$26; L. D., of N. Y., \$16; R. C., of N., \$29; G. B. I., of Vt., \$16; S. C. P., of Mass., \$10; W. W., of Conn., \$20; C. H. M., of N. Y., \$45; J. F. B., of Wis., \$20; N. A. B., of N. Y., \$41; G. E., of N. Y., \$16; Q. & L., of Del., \$20; D. H., of N. Y., \$16; W. T. E., of N. J., \$20; H. C. D., of C. W., \$25; M. V. B. W., of Ill., \$16; S. L. F., of Mass., \$15; C. E. S., of Conn., \$15; J. A. C., of N. Y., \$296; G. C., of N. Y., \$15; H. P. A., of Mass., \$30; T. W., of Ill., \$16; E. P. M., of Mass., \$25; G. D., of Pa., \$16; M. C. E., of N. Y., \$16; T. N. D., of Ind., \$21; C. & T., of Conn., \$16; A. B., of Mo., \$20; E. L., of N. Y., \$20; S. J. S., of N. Y., \$20; R. J. M., of N. Y., \$46; T. S. D., of N. J., \$22; M. & B., of Ill., \$20; G. F. I. C., of N. J., \$16; H. D., of N. Y., \$20; W. B., of Pa., \$26.

Persons having remitted money to this office will please to examine the above list to see that their initials appear in it, and if they have not received an acknowledgment by mail, and their initials are not to be found in this list, they will please notify us immediately, and inform us the amount, and how it was sent, whether by mail or express.

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office from Wednesday, March 18 to Wednesday, March 25, 1863:—

- N. A. B., of N. Y.; R. J. M., of N. Y.; T. S. D., of N. J.; H. L., of N. Y.; T. J. D., of N. Y.; F. A. De M., of N. Y.; A. M., of Pa.; D. P. M., of Mass.; J. A. McC., of Ky.; G. J., of N. Y.; T. H. A., of Ill.; L. W. P., of Mass.; C. C., of N. Y.; W. H. B., of N. Y.; T. J. McG., of Ohio; H. B. and G. A. M., of Mich.; J. McL., of Ohio; C. O. F., of Maine; F. and K., of Cal. (2 cases); J. W., of Ill. (2 cases); W. J. S., of Ohio; J. B. Jr., of Mass.; W. B., of Pa.; W. C. H. of Ohio.

RATES OF ADVERTISING.

Twenty-five cents per line for each and every insertion, payable in advance. To enable all to understand how to compute the amount they must send in when they wish advertisements inserted, we will explain that ten words average one line. Engravings will not be admitted into our advertising columns; and, as heretofore, the publishers reserve to themselves the right to reject any advertisement they may deem objectionable.

PAYE'S PATENT FORGE HAMMER.—THIS HAMMER is adapted to both heavy and light forgings; the force of the blow being entirely at the will of the operator, and for all forgings under six inches, both round or square, is the best hammer now in use, and requires but one-half the power used by every other hammer to do the same work. For an engraving and description of this hammer see page 1, Vol. V. (new series) of the SCIENTIFIC AMERICAN; some valuable improvements have, however, been since made. All communications should be addressed to H. M. AMES, Box 422 New York, or Ames Iron Works, Oswego, N. Y. These hammers may be seen in operation at the Allaire, Neptune, Secor, Delama, Fletcher & Harrison, Duncan & Crampton, Anderson & McLaren, Buhurst & Emerson, Charles T. Porter, Hudson River Railroad Car Shop, all in New York city; Joseph Colwell, Jersey City; Wm. White, Newark, N. J.; Providence (R. I.) Tool Co.; Whiting & Wilcox, Kaighn's Point, Phila.; Mallory & Cottrell, Mystic, Conn.; J. Dillon, Rondout; James Horner & Co., Sing Sing; Henry Esler & Co., Brooklyn; James B. Eads, St. Louis, Mo.; Franklin Iron Works, Central Railroad Shop, Albany; Burlington, Quincy & Chicago Railroad Shop, Ames Iron Works, Oswego; C. P. & A. Railroad Shop, Cleveland, Ohio.

TRIP HAMMERS.—WE ARE MANUFACTURING Howells Patent Trip Hammers (illustrated in No. 2 Vol. III, new series, SCIENTIFIC AMERICAN) to which the attention of those interested is invited. Descriptive circular and references to those who have them in use mailed to all applicants. JAMES L. HAVEN & CO., Nos. 173, 175 and 177 West Second street, Cincinnati, Ohio.

INDICATORS FOR ASCERTAINING THE WORKING horse-power of steam engines for sale; also steam and water gages, glass tubes, patent gage cocks, whistles, engine-counters, heat gages and signal gongs for steamboats. E. BROWN, 311 Walnut street, Philadelphia, Pa.

CLOUGH & BURRELL'S PATENT FIRE-CRACKER Torpedo and Parlor Gun.—This device is intended as a toy gun, and an instrument of practice in acquiring the art of shooting. The best and most saleable article for boys and girls' enjoyment of anything ever offered the trade. Price \$15 per gross; singly striped \$18. All orders must be addressed to S. R. BURRELL, 71 Broadway street, or to I. S. CLOUGH, 290 Pearl street, New York.

ELECTRO-MAGNETIC WATCH-CLOCK COMPANY.—Hamblet's Patent—at 47 Hanover street, Boston, Mass. Orders and correspondence responded to by EDMANDS & HAMBLET.

PORTABLE STEAM ENGINES.—COMBINING THE maximum of efficiency, durability and economy with the minimum of weight and price. They are widely and favorably known, more than 200 being in use. All warranted satisfactory or no sale. A large stock on hand ready for immediate application. Descriptive circulars sent on application. Address J. C. HOADLEY, Lawrence, Mass.

LABORATORY OF INDUSTRIAL CHEMISTRY.—ADvice and consultations on chemistry applied to arts, manufactures, agriculture, &c. Processes of chemical fabrications, plans and drawings of factories and apparatus. Analysis and commercial essays in general. Address Prof. H. DUSSAUCE, Chemist, New Lebanon, N. Y.

J. E. STEVENSON, THE NOVELTY IRON WORKS, New York, agent for the purchase of Mill and Factory Machinery, Steam Engines, Tools, &c. All orders entrusted to his care will be promptly attended to.

AMERICAN SHARP-SHOOTER.—MY FIRST EDITION being about exhausted, I am now prepared to furnish copies at only twenty-five cents each, by mail, free of postage. I do this that the importance of the work may be realized by every person, whether a sportsman or soldier, and that each may have a copy. Address DANIEL WOOD, Publisher, Rochester, N. Y.