

EXTENSION.
6,027.—Hot-air Register.—E. A. Tuttle, William Tuttle and J. S. Bailey, New York City, assignees of C. F. Tuttle, deceased. Patented January 23, 1849. Re-issued Oct. 14, 1862.

We claim the application of the upright or vertical wheel, G, or part or segment of a wheel, to the opening and closing of hot-air registers or ventilators, the edge or periphery of which wheel is so placed as to adapt it to be operated on by the foot if desired, substantially as set forth.

This invention consists in placing at the side of the register-box a wheel, or segment of a wheel, the top of which comes flush, or nearly flush, with the upper surface of the fret-work, and is so connected with the fan that motion imparted to the wheel by the foot will actuate the fan and open or close the register. The advantages claimed for it are, simplicity of construction, ease of operation and prevention of all liability of burning of the fingers, which is the common defect of other styles of registers.

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. They also attend to various other departments of business pertaining to patents, such as Extensions, Appeals before the United States Court, Interferences, Opinions relative to Infringements, &c. The long experience Messrs. MUNN & Co. have had in preparing Specifications and Drawings, has rendered them perfectly conversant with the mode of doing business at the 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.



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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. Address MUNN & CO., No. 37 Park Row, New York.

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. But for a fee of \$5, accompanied with a model or drawing and description, we have a special search made at the United States Patent Office, and a report setting forth the prospects of obtaining a patent, &c., made up and mailed to the inventor, with a pamphlet, giving instructions for further proceedings. These preliminary examinations are made through our Branch Office, corner of F and Seventh streets, Washington, by experienced and competent persons. Many thousands such examinations have been made through this office. Address MUNN & CO., No. 37 Park Row, New York.

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. These should be securely packed, the inventor's name marked on them and sent, with the Government fees, by express. The express charge should be pre-paid. Small models from a distance can often be sent cheaper by mail. The safest way to remit money is by draft on New York, payable to the order of MUNN & CO. Persons who live in remote parts of the country can usually purchase drafts from their merchants on their New York correspondents; but, if not convenient to do so, there is but little risk in sending bank-bills by mail, having the letter registered by the postmaster. Address MUNN & CO., No. 37 Park Row, New York.

The revised Patent Laws, enacted by Congress on the 2d 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. Other changes in the fees are also made as follows:—

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. Foreigners cannot secure their inventions by filing a caveat; to citizens only is this privilege accorded.

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! In fact, the publishers of this paper have become identified with the whole brotherhood of inventors and patentees at home and abroad. Thousands of inventors for whom we have taken out patents have addressed to us most flatter-

ing testimonials for the services we have rendered them, and the wealth which has inured to the inventors whose patents were secured through this office, and afterward illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! We would state that we never had a more efficient corps of Draughtsmen and Specification Writers than are employed at present in our extensive offices, and we are prepared to attend to patent business of all kinds in the quickest time and on the most liberal terms.

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. A pamphlet of advice regarding applications for patents and caveats, printed in English and German, is furnished gratis on application by mail. Address MUNN & CO., No. 37 Park Row, New York.

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. Our success in the prosecution of rejected cases has been very great. The principal portion of our charge is generally left dependent upon the final result.

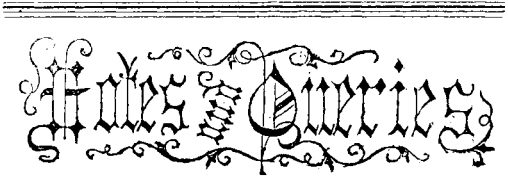
All persons having rejected cases which they desire to have prosecuted are invited to correspond with us on the subject, giving a brief story of the case, inclosing the official letters, &c.

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 No. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris; and 26 Rue des Eperonniers, Brussels. We think we can safely say that THREE-FOURTHS of all the European Patents secured to American citizens are procured through the Scientific American Patent Agency, No. 37 Park Row, New York.

Inventors will do well to bear in mind that the English law does not limit the issue of patents to inventors. Any one can take out a patent there.

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.



W. B. S., of Wis.—Your proposed system of electro-magneto-helices for an Atlantic cable will not operate as you suppose. The great difficulty with marine cables is to obtain sufficient and proper insulation. We advise you to make some experiments on a limited scale and determine the question for your own satisfaction.

W. C. B., of Conn.—Your father's experiments do not possess sufficient novelty to bring them into notice at the present time. We have had our columns full of this kind of matter lately.

D. McJ., of C. W.—It will require about 2,000 cubic feet of gas to raise a man of 180 pounds weight in a balloon. You cannot make a flying machine on the plan you have described or any other that has been brought to our notice. You may blow off steam at any pressure from your boiler. We prefer to lift the safety valve and blow off steam gradually. You cannot pump steam back to the boiler by employing any specific valve whatever in the pump for the purpose of using the exhaust steam over again. It is also evident that it would take just as much power to force back the steam into the boiler as the power you could obtain in working it over again, so there would be no saving whatever in recovering such steam.

J. N. Z., of Kansas.—If you burn the ends of your fence posts so as to char their surface or coat them with coal tar to the depth they are to be covered in; the ground, they will last twice as long as posts put in without any preparation in the common manner.

G. W., of Ky.—The temperature of steam is not, as a rule, the same at all pressures; steam can be superheated so as to become almost inflammable or "red-hot" as it is called by engineers.

F. G. W., of Mass.—For ordinary purposes the upright flue boiler is about as good as any you can get; they are in very extensive use; all steam fire-engines have them. The plan of boiler you have sent us is very old; the water space is rather narrow, but this makes no difference provided the feed-water circulates properly. Put all the flues or tubes that you can into your boiler without weakening it. Every tube you put in saves money hereafter, but you must be careful and see that the feed-water has free access to all parts of the heating surfaces, as boilers constructed with large amounts of the same are liable to "foam."

E. M., of N. Y.—One kilogramme is equal to 2,205 pounds, 15,000 kilogrammes are equal to 33,075 pounds; 25,000 kilogrammes are equal to 55,125 pounds. One meter is equal to 3281 feet, and a millimeter is the 1-1000th part of a meter. From these data you will be able to compare the strength of the different kinds of iron you refer to, in the article which you submit to us.

C. C., of D. C.—We have given you all the information we possess respecting the treatment of artificial stones with the chloride of calcium. Make some of the calcium fresh and try it yourself. It is manufactured by dissolving marble dust in muriatic acid.

R. D. D., of Iowa.—From the section diagram which you have forwarded of your type machine we cannot perceive any features of a new and important character. There are several type-setting and distributing machines in operation in this city, all of which are operated by keys like those of the House telegraph.

W. G., of Conn.—The best air pump, for your purpose, that you can make, is one of the cylindrical kind, with a small brass cylinder and piston like a water pump. You will find it difficult to operate in forcing the air against a pressure of 100 pounds on the inch.

A. J., of N. Y.—Pure india-rubber may be dissolved in turpentine or naphtha, but it is difficult to use as a cement for repairing vulcanized boots and shoes. In the manufacture of india-rubber articles the india-rubber is rendered soft by heat and pressure—not dissolved in a solvent.

H. W. B., of N. Y.—A submarine propeller is illustrated and described on page 81, Vol. VII (old series) of the SCIENTIFIC AMERICAN. We think you will consider it superior to the one which you propose for making submarine explorations, and for attacking the war ships of an enemy by placing torpedoes under them.

A. S., of Ohio.—On page 53, current volume of the SCIENTIFIC AMERICAN, in the column of "Valuable Receipts," you will notice that we have described the muriate of zinc as one of the fluxes used in soldering.

H. and R., of C. W.—Cast iron articles are malleable-ized and thus rendered soft and tough, by placing them in a properly-constructed furnace, covering them with an oxide of iron, such as some iron ore, and submitting them to a red heat, which is continued for several days, after which they are gradually cooled. "Cold short" cast iron articles are unfit for being malleable-ized. You must use a good quality of pig iron for all your castings.

F. J. C., of Philadelphia.—You propose, as a superior boiler for generating steam, one constructed on the principle of the centrifugal drying machine, into which a small quantity of water shall be conveyed and sprinkled over an extensive heating surface. Your proposition has been suggested on several occasions. You will find a rotary boiler illustrated and described on page 217, Vol. II (old series) of the SCIENTIFIC AMERICAN; also an illustrated history of steam boilers in Vol. VII (old series) of the SCIENTIFIC AMERICAN, in which you will obtain much valuable information on the subject of steam boilers.

A. P. J., of Ill.—Some years ago we examined a very good quality of paper that was made from cotton wood. We have no doubt but good paper may be made at a moderate cost from such wood, as it is very fibrous and contains but little silicious matter.

J. B. C., of Ill.—An intense black India ink for writing on vellum is made with a very strong solution of good Indian ink. You have probably used a weak solution which affords a foxy black ink.

J. H. G., of N. Y.—Your particular machine for performing music with a galvanic battery may be patentable, but the principle of executing music with an electrical apparatus is not patentable, as this was done years ago and a patent taken out for the invention by Alexander Bain. Fine iron wire is not equal to copper in making an electro-magnet of intensity or one for a mageto-electric machine.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, January 23, to Wednesday February 4, 1863:—

- G. T. L., of Pa., \$22; P. J. C., of Conn., \$20; H. B., Jr., of N. Y., \$40; S. T. S., of Mass., \$20; J. H. A., of N. Y., \$16; T. S., of Conn., \$56; R. H. J., of Ill., \$20; S. M. D., of Mass., \$20; J. C. H., of Conn., \$20; J. T. M., of N. Y., \$20; H. E. P., of Mass., \$20; C. P., of Md., \$16; F. R. T., of Me., \$25; H. R., of Mass., \$10; M. H., of N. Y., \$15; J. K., of Conn., \$32; J. B. W., of N. J., \$15; S. B. E., of Conn., \$25; G. B., of England, \$45; J. R. H., of N. Y., \$40; F. C. K., of N. Y., \$20; S. R., of N. Y., \$16; J. H. S., of N. Y., \$15; G. E., of Ohio, \$45; E. F., of N. Y., \$40; G. W. N., of Mass., \$20; G. B. O., of N. Y., \$31; S. C. H., of Mass., \$20; G. S., of N. Y., \$26; R. R. F., of Ill., \$26; S. B., Jr., of N. Y., \$26; J. B. T., of Pa., \$20; R. C. R., of N. Y., \$356; A. T. W., of Ind., \$15; L. R., of N. Y., \$15; J. H. S., of Ill., \$15; W. P., of Ohio, \$20; D. Van H., of Ind., \$20; C. G., of Mass., \$20; J. A., of N. Y., \$20; T. B. V., of N. Y., \$15; L. D. C., of Mich., \$20; R. S., of N. Y., \$16; T. V. B., of N. J., \$20; L. O. C., of Pa., \$20; C. E. P., of Mass., \$45; W. D. S., of N. Y., \$16; E. E., of Cal., \$10; J. F. B., of Wis., \$25; E. P., of Ill., \$25; E. H. C., of Mich., \$25; F. P. F., of N. J., \$16; J. B., of Ind., \$15; J. A., of Ky., \$10; G. D., of Mass., \$15; C. A. & Co., of Ct., \$392; E. C., of O., \$25; L. & W., of N. Y., \$150; P. M., of France, \$34; A. S., of Conn., \$16; T. W., of Ill., \$12; G. R., of Ky., \$16; T. H. B., of N. Y., \$25; D. & S., of N. Y., \$250; E. H., of Cal., \$100; J. C. H., of Mass., \$16; J. W. B., of Ill., \$25; T. D. R., of N. Y., \$30; B. C., of Maine, \$32; E. B., of N. Y., \$26; R. T. A., of Conn., \$25; A. H., of Iowa, \$30.

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, January 23, to Wednesday, February 4, 1863:—

- T. S., of Conn.; C. W. G., of N. J.; G. B. O., of N. Y.; E. F., of N. Y.; J. R. H., of N. Y.; A. B., of N. J.; L. & B., of N. J.; G. T. L., of Pa.; S. J. S., of N. Y.; J. H. A., of N. Y.; J. W. S., of N. Y.; G. S., of N. Y.; S. B. Jr., of N. Y.; J. V. B., of Ill.; R. F. A., of Conn.; B. C. C., of Maine (2 cases); P. M., of France; M. & B., of Ill.; T. H. B., of N. Y.; E. C., of Ohio; E. B., of N. Y.; S. B. E., of Conn.; T. W., of Ill.; F. D., of Conn.; W. S. P., of Mich.; L. R., of N. Y.; S. S. W., of Pa.; E. H. C., of Mich.; F. B. T., of Wis.; R. R. F., of Ill.; E. E., of Cal.; J. F. B., of Wis.; W. D. Jr., of Pa.; E. P., of Ill.; A. H., of Iowa; R. H., of Vt.

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INVENTORS AND CONSTRUCTORS OF NEW AND USEFUL CONTRIVANCES OR MACHINES, of whatever kind, can have their inventions illustrated and described in the columns of the SCIENTIFIC AMERICAN on payment of a reasonable charge for the engraving.

No charge is made for the publication, and the cuts are furnished to the party for whom they are executed as soon as they have been used. We wish it understood, however, that no secondhand or poor engravings, such as patentees often get executed by inexperienced artists for printing circulars and handbills, can be admitted into these pages. We also reserve the right to accept or reject such subjects as are presented for publication. And it is not our desire to receive orders for engraving and publishing any but good inventions or machines, and such as do not meet our approbation in this respect, we shall decline publishing.

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Its Western Corresponding Editor, Chas. D. Bragdon, Esq., whose "Western Editorial Notes," have attracted much attention and been widely copied during the past year, will hereafter devote still more time and thought for the benefit of the Rural New Yorker and its readers.

Style, Form, Terms, &c.—Volume XIV, for 1863, will maintain the enviable reputation the Rural New Yorker has acquired for both Contents and Appearance. It will be published in Superior Style—with New Type, good white Paper, and many fine Illustrations. Its Form will continue the same as now—Double Quarto—with an Index, Title-page, &c., at close of year, complete for binding.

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