

The 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 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 (except in cases of designs) on the above terms. Foreigners cannot secure their inventions by filing a caveat; to citizens only is this privilege accorded.

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 is \$10. A pamphlet of advice regarding applications for patents and caveats is furnished gratis, on application by mail. Address MUNN & CO., No. 37 Park Row, New York.

REJECTED APPLICATIONS.

Messrs. MUNN & CO. are prepared to undertake the investigation and prosecution of rejected cases, on reasonable terms. The close proximity of their Washington Agency to the Patent Office affords them rare opportunities for the examination and comparison of references, models, drawings, documents, &c. Their success in the prosecution of rejected cases has been very great. The principal portion of their 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 MUNN & CO., on the subject, giving a brief history of the case, inclosing the official letters, &c.

FOREIGN PATENTS.

Messrs. MUNN & CO., are very extensively engaged in the preparation and securing of patents in the various European countries. For the transaction of this business they have offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris; and 26 Rue des Epeenniers, Brussels. They thing they can safely say that THREE-FOURTHS of all the European Patents secured to American citizens are procured through their agency.

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 MUNN & CO.'s Agency, the requirements of different Government Patent Offices, &c. may be had, gratis, upon application at the principal office, No. 37 Park Row, New York, or any of the branch offices.

SEARCHES OF THE RECORDS.

Having access to all the official records at Washington, pertaining to the sale and transfer of patents, MESSRS. MUNN & CO., are at all times ready to make examinations as to titles, ownership, or assignments of patents. Fees moderate.

INVITATION TO INVENTORS.

Inventors who come to New York should not fail to pay a visit to the extensive offices of MUNN & CO. They will find a large collection of models (several hundred) of various inventions, which will afford them much interest. The whole establishment is one of great interest to inventors, and is undoubtedly the most spacious and best arranged in the world.

MUNN & CO. wish it to be distinctly understood that they do not speculate or traffic in patents, under any circumstances; but that they devote their whole time and energies to the interests of their clients.

COPIES OF PATENT CLAIMS.

MESSRS. MUNN & CO., having access to all the patents granted since the rebuilding of the Patent Office, after the fire of 1836, can furnish the claims of any patent granted since that date, for \$1.

THE VALIDITY OF PATENTS.

Persons who are about purchasing patent property, or patentees who are about erecting extensive works for manufacturing under their patents, should have their claims examined carefully by competent attorneys, to see if they are not likely to infringe some existing patent, before making large investments. Written opinions on the validity of patents, after careful examination into the facts, can be had for a reasonable remuneration. The price for such services is always settled upon in advance, after knowing the nature of the invention and being informed of the points on which an opinion is solicited. For further particulars address MUNN & CO., No. 37 Park Row, New York.

EXTENSION OF PATENTS.

Many valuable patents are annually expiring which might readily be extended, and if extended, might prove the source of wealth to their fortunate possessors. Messrs. MUNN & CO. are persuaded that very many patents are suffered to expire without any effort at extension, owing to want of proper information on the part of the patentees, their relatives or assigns, as to the law and the mode of proceeding in order to obtain a renewed grant. Some of the most valuable grants now existing are *extended patents*. Patentees, or, if deceased, their heirs, may apply for the extension of patents, but should give ninety days' notice of their intention.

Patents may be extended and preliminary advice obtained, by consulting, or writing to, MUNN & CO., No. 37 Park Row, New York.

ASSIGNMENTS OF PATENTS.

The assignment of patents, and agreements between patentees and manufacturers, 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.

UNCLAIMED MODELS.

Parties sending models to this office on which they decide not to apply for Letters Patent and which they wish preserved, will please to order them returned as early as possible. We cannot engage to retain models more than one year after their receipt, owing to their vast accumulation, and our lack of storage room. Parties, therefore, who wish to preserve their models should order them returned within one year after sending them to us, to insure their obtaining them. In case an application has been made for a patent the model is in deposit at the Patent office, and cannot be withdrawn.

It would require many columns to detail all the ways in which the Inventor or Patentee 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.



Horse-power.—It is a fixed rule of this, and all other well-regulated newspaper establishments, to disregard all anonymous letters.

J. W., of Conn.—You can sell an article before applying for Letters Patent without afterward invalidating your claim, but we do not think it a safe practice to adopt.

G. W. G., of Me.—On page 287 of our last volume you will find a description of an ice-making machine in practical use in England. The cooling is effected by the expansion of air previously compressed by a steam engine. It was considered a triumphant success to make one ton of ice by the expenditure of one ton of coal. The first stroke of an air pump, in exhausting a receiver, covers the interior surface of the receiver with a film of moisture. We do not find the data for filling your table.

R. H., of N. Y.—Baryto-celestine, a mineral which contains 35 per cent of sulphate of baryta, is found on Drummond Island, Lake Erie, and at Kingston, U. C. We are not aware that it is worked in this country. At Pittsburgh, Pa., large quantities of caustic soda are prepared, and sold under the name of concentrated lye.

D. T., of Mass.—You can not drill holes in glass with a common drill. They are usually made by a steel tool, like a punch in form, or flat on the end. The cutting is done by fine sand or emery. Wheeler & Wilson drill the glass in their cloth-pressers, with a tool like the one mentioned above, in connection with diamond dust. If you have many holes to drill it would pay to buy some diamond dust. Large holes in glass can be made by a copper tube and fine sand or ground glass. The ground glass can be procured at druggists.

T. G. R., of N. Y.—The best book for your purpose is the "Practical Draughtsman." Address H. C. Baird, No. 406 Walnut street, Philadelphia, and he will send it by return mail.

D. C. D., of U. S. N.—Stubbs's tools can be procured of any first-class hardware store in this city. We are not engaged in the commission business. You had better write to some friend in this city to procure what you desire. Subscriptions received.

A. W. S., of Mass.—The harmlessness of pure nitrous oxide has been pretty fully discussed in our columns.

E. L., of N. J.—Plaster casts are taken from the faces of living persons in the manner you suppose. Tubes to breathe through are inserted into the nostrils, and the moistened plaster is then spread over the face and head. The velvet on wall paper and toys is prepared by cutting waste velvet into dust; it is velvet shoddy.

A. S. R., of N. H.—The best way to stop the leak in your boiler is to put a plate over the crack. All other expedients are shiftless and only temporary.

J. R. M., of Tenn.—There is no work on the locomotive link or link motion. Discussions of it can be found in Bourne's Catechism and Camdin's Practical Engineering, Main and Brown's Marine Engine, etc. The link used on Rogers's patent is, we believe, one patented by Uhry and Lutgens, and if the radius is struck from three different points, as you say, it is for some reason best known to the patentees. We see no object in it.

Gas Blow-pipe, Buffalo, N. Y.—Your letter contained no signature, and we cannot, therefore, reply to your inquiry by mail. The invention seems to embrace novelty, and we think a patent can be secured for it.

D. H. S., of N. Y.—If you are distilling pine wood to obtain turpentine the acid which troubles you is doubtless acetic acid. Your proper remedy is to make your retort or still of cast-iron instead of wrought-iron.

M. V. B. P., of Canada East.—You can procure plumbago suitable for electroplating of Smith & Butler, No. 448 Broome street, New York. A good work on electro-metallurgy is *Smees's*, published by John Wiley, No. 535 Broadway, New York. The pressure of water at a great depth may force a cork into a bottle, and yet the water may not be sensibly compressed by the pressure.

T. E. F., of N. H.—The pressure at the bottom of a boiler is the same as at the top.

A Constant Reader, of N. Y.—It is a common practice with good cooks to bake the undercrust of mince, as well as of other pies, before the pie is filled.

J. A., of N. J.—The ports for your 6-inch cylinders should be four inches long by one-half inch wide.

C. E., of Pa.—When a horse is employed in moving a machine in a circular path the diameter of this path should not be less than thirty feet, but forty feet would be better.

O. B. M., of Mass.—The comparative economy of turbines and breast-wheels has been already fully discussed in our columns, but we should still welcome any new facts or ideas bearing upon the subject. There are some of the turbines you speak of at Woonsocket directly under Mr. Harris's eye, and he has doubtless considered their advantages. We would be pleased to illustrate Mr. Boyden's wheel.

Y. N., of N. Y.—The effects of adding large amounts to our specie circulation has been plainly shown since the discovery of the California mines. All except our share of the increased currency of the world goes abroad and is distributed among all nations. Our paper circulation does not go abroad, because foreigners will not take it. Some values adjust themselves more slowly to inflations of currency than others; among the slowest are wages, farms and Government bonds. It is the opinion of this writer that Government could have obtained the means to carry on the war with far greater ease if specie payments had been maintained.

J. H. M., of N. Y.—The preparation of India-rubber for vulcanizing is a complicated process of cutting, washing, grinding and kneading. It was fully described and illustrated in the first volume (New Series) of the SCIENTIFIC AMERICAN, pages 169 to 176.

H. S., of S. C.—You had better advertise your invention for removing scale from boiler tubes through our columns. We do not undertake to negotiate the sale of inventions.

S. L. B., of Geo.—You can obtain drawing instruments at Messrs. B. Pike & Sons', No. 518 Broadway, New York.

R. E., of —.—India-rubber can be dissolved in spirits of turpentine or naphtha, and it can be hardened to various degrees by sulphur and heat, with the addition of lime and other substances.

L. M. M., of Mass.—The action of drying substances on paint is mysterious. We cannot tell you how to prepare oil with black oxide of manganese in such way as not to have it become thick.

H. B., of Wis.—We do not think the artificial ears to which you refer amount to much.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, January 4 to Wednesday, January 11, 1865:—

A. M. W., of N. Y., \$12; J. W. P., of Mo., \$30; W. H., of Del., \$50; H. A. R., of N. Y., \$25; S. & S. of Ohio, \$20; G. S., of N. Y., \$20; W. L., of N. Y., \$45; J. H. P., of N. Y., \$22; R. A., of Ohio, \$40; R. S. L., of Ill., \$20; S. Van S., of N. J., \$15; L. C. F., of Ill., \$51; J. T. of N. Y., \$45; P. C. P., of Ill., \$70; W. A. H., of Ind., \$45; H. W., of Wis., \$20; J. H. D., of N. J., \$15; B. McG., of N. Y., \$20; F. & B., of N. Y., \$15; G. F. J. C., of N. J., \$30; H. H., of N. Y., \$15; J. H., of N. Y., \$30; J. A. L., of N. Y., \$30; C. M. J., of N. Y., \$34; J. E. S., of N. Y., \$30; H. K. J., of Conn., \$45; J. P. G., of N. Y., \$40; P. & B., of Pa., \$45; K. & L., of Mass., \$20; J. S. L., of N. Y., \$15; M. B. D., of N. Y., \$40; A. R. J., of N. Y., \$15; P. C., of Ill., \$20; E. S., of N. Y., \$20; F. J. E., of Ill., \$20; H. B., of Iowa, \$15; B. K., of Penn., \$45; J. L. H., of Conn., \$15; T. R., of N. Y., \$41; P. W., of N. Y., \$15; W. W. S., of U. S. N., \$22; T. S. & W., of N. Y., \$37; J. H. H., of N. J., \$25; J. A. A., of N. Y., \$30; L. B. H., of Mass., \$48; W. G. A. B., of Del., \$40; H. E. G., of N. Y., \$20; J. T., of N. Y., \$41; F. W. C., of N. Y., \$15; W. T., of Ill., \$20; C. D., of N. Y., \$20; E. F., of N. Y., \$15; T. D. E., of N. J., \$20; R. K., of Ill., \$20; N. De LaP., of Ohio, \$16; J. W., of N. Y., \$45; H. B., of N. J., \$15; I. M. M., of Conn., \$45; I. W. B., of N. Y., \$20; J. F. R., of Pa., \$20; C. E. B., of Mass., \$16; J. W. F., of Cal., \$20; O. W. K., of Wis., \$25; J. M. R. of N. J., \$15; H. L. B., of Pa., \$15; M. B. W., of Ky., \$16; C. S. S., of N. J., \$15; P. G., of Pa., \$25; A. J., of Pa., \$16; A. L. B., of Minn., \$25; L. R., of Ill., \$16; P. J. C., of Conn., \$50; G. L. M., of N. J., \$25; B. & H. of Mass., \$22; S. B. H., of Pa., \$10. P. & K. F. of Pa., \$275; J. H. O. N., of Pa., \$25; E. E. S., of U. S. N., \$20; C. F. C. of Conn., \$15; E. B. T., of Mass., \$20; R. H. & J., of Conn., \$10; J. H., of Pa., \$16; C. J. F., of Iowa, \$15; H. R., of Ill., \$15; D. T., of Ohio, \$10; H. H., of Iowa, \$16; D. G. F., of Wis., \$25; J. H. C., of Mass., \$25; J. H. G., of Ohio, \$16; M. H., of Mich., \$25; J. C. of R. I., \$20; L. H. L., of N. Y., \$16 F & L., of Me., \$25; W. W. T., of N. Y., \$16; G. L. D., of N. Y., \$15; J. F. W., of N. H., \$25; T. J. L., of R. I., \$140; W. & H., of Ill., \$16; G. W. B., of Conn., \$15; J. A. C., of Pa., \$25; G. W. S., of Pa., \$20; H. K., of Iowa, \$10; W. L. C., of Wis., \$25; J. S., of N. Y., \$25; F. B., of Iowa, \$20; J. B., of Ill., \$15; G. W. J., of Mass., \$30; H. R. A., of Ill., \$20.

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, stating 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, Jan. 4, to Wednesday, Jan. 11, 1865:—

T. S. & W., of N. Y.; (3 cases) J. H., of N. Y.; J. H. H., of N. J.; H. A. R., of N. Y.; W. H., of Del.; R. A., of Ill.; J. J. Jr., of Ms.; (4 cases); J. M. C., of Mass.; J. I., of N. Y.; P. G., of Pa.; E. B. T. of Mass.; E. E. S., of U. S. N.; O. A., of Cal.; G. W. J., of Ms.; P. E. P., of France; W. H. H. of Ohio; J. W., of Wis.; J. W. P., of Mo.; C. D., of Canada; J. J. A., of N. Y.; J. T., of N. Y.; J. T., of N. J.; D. G. F., of Wis.; J. L. of Conn.; J. A. R., of Pa.; D. T., of Ohio; O. W. K., of Wis.; A. L. B., of Minn.; J. B., of Ill.; D. A. B. S., of France; F. L., of Me.; R. & H. V. F., of Ind.; A. M. W., of N. Y.; J. A. L., of N. Y.; J. E. S., of N. Y.; C. M. J., of N. Y.; J. H. P., of N. Y.; T. R., of N. Y.; M. & H., of N. J.; L. R., of Ill.; G. W. S., of Pa.; H. R., of Ill.; J. F. W., of N. H.; J. H. O'N., of Pa.; W. L. C., of Wis.; M. H., of Mich.; F. M. L. D., of France; J. K., of Wis.; T. J. L., of R. I. (2 cases).

TO OUR READERS.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the patentee and date of patent, when known, and enclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

MODELS are required to accompany applications for Patents under the new law, the same as formerly, except on design patents, when two good drawings are all that are required to accompany the petition, specification and oath, except the Government fee.

RECEIPTS.—When money is paid at the office for subscriptions, 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* acknowledgement of our reception of their funds.

Back Numbers and Volumes of the "Scientific American."

VOLUMES III., IV., VII., X., AND XI., (NEW SERIES) complete (bound) may be had at this office and from periodical dealers. Price, bound, \$3 00 per volume, by mail, \$3 75 which includes postage. Every mechanic, inventor or artisan in the United States should have a complete set of this publication for reference. Subscribers should not fail to preserve their numbers for binding. VOLS. I., II., V., VI., VIII. and IX., are out of print and cannot be supplied.