

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.

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 procedure 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.

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 charges 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 Eperonniers, Brussels. They think 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.

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.

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.

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.

INVARIABLE RULE.—It is an established rule of this office to stop sending the paper when the time for which it was pre-paid has expired.

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* acknowledgment of our reception of their funds.

Binding the "Scientific American."

It is important that all works of reference should be well bound. THE SCIENTIFIC AMERICAN being the only publication in the country which records the doings of the United States Patent Office, it is preserved by a large class of its patrons, lawyers and others, for reference. Some complaints have been made that our past mode of binding in cloth is not serviceable, and a wish has been expressed that we would adopt the style of binding used on the old series, *i. e.*, heavy board sides covered with marble paper, and morocco backs and corners.

Believing that the latter style of binding will better please a large portion of our readers, we commenced on the expiration of Volume VII., to bind the sheets sent to us for the purpose in heavy board sides, covered with marble paper and leather backs and corners.

The price of binding in the above style is 75 cents. We shall be unable hereafter to furnish covers to the trade, but will be happy to receive orders for binding at the publication office, No. 37 Park Row, New York.

Back Numbers and Volumes of the "Scientific American."

VOLUMES I., III., IV., V., VII. VIII. AND IX., (NEW SERIES) complete (bound) may be had at this office and from periodical dealers. Price, bound, \$2 25 per volume, by mail, \$3—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. II. and VI. are out of print and cannot be supplied. We are unable to supply any of the first six numbers of the current volume. Therefore all new subscriptions will begin hereafter with the time the money is received.



C. A. S., of Maine.—The term "mesne-assignment," which sometimes appears in connection with the issue of Patents, signifies only that the present holder of the thing in question—for instance the person to whom a patent is granted—has become such holder not by an assignment direct from the first owner of all, as for example, the inventor, but by a transfer from some person who received it from some other individual, who received it from the original owner. There may be any number of these intermediate holders and still the term "mesne" would be employed. To illustrate:—If A assigns to B, then B, is not a holder by "mesne-assignment," but a holder by direct assignment. But if A assign to B, and B to C, then C is a holder by "mesne-assignment." Hence "mesne" is substantially defined by the word "intermediate." The former word is a mere technical term of the law.

D. B., of Conn.—If you have allowed any one to make more noise in the world or secure more fame for the suggestion of the plans you speak of, it must be your own fault. You should blow your trumpet louder. If it is only six years since you proposed the use of compressed air for driving machinery, then you are far from being the first to propound that scheme. The idea is probably half a century old. As for the use of water-power for light mechanical purposes, in cities, it must be ten years or so, since we witnessed the driving of the printing press of the *Traveller* newspaper, in Boston, by water drawn from the street pipes. The idea of using the water-power of the falls of Niagara is also very old. We fear that you have not been a constant reader of the SCIENTIFIC AMERICAN for the past fifteen years, else you would hardly give yourself the credit of being the first originator of the ancient projects which you enumerate.

S. R. K., of Mich.—If you hold the patent on a dredge for a certain county, no person has a right to use, or sell, or manufacture the machine, within your territory, without your consent.

J. F., of N. Y.—Address H. C. Baird, 406 Walnut street, Philadelphia, for a work on the subject mentioned.

E. F., of Wis.—There is much difference of opinion as to the durability of diamonds for dressing mill-stones; some stating that they are quite durable; others that they are quite useless. We are unable to inform you more positively.

O. B. F., of Ill.—By the empirical rule in use, your engine of 11-inch cylinder, and 4-foot stroke, running at the rate of 400 feet per minute, piston speed, with a pressure of 50 pounds to the square inch would give 50-horse power. A boiler for an engine of this size would require 750 square feet of heating surface, which you may dispose in the most ingenious way you can to obtain the full benefit of the fuel. Use gage-cocks and a glass water tube indicator on your boiler.

J. D. of Conn.—We have had similar complaints about syphons and air collecting in them, from others. The solution mentioned by you, in your letter, is correct, but we cannot tell you how to remedy the evil so as to prevent its recurrence.

J. A. Mc N., of Mich.—We cannot direct you to a manufacturer of small castings of iron tinned or galvanized with zinc. Such castings can, no doubt, be obtained, but we know not where.

J. C. J., of Mass.—We do not know what you mean by "self boiler-feeders;" if you mean a self-acting arrangement for feeding boilers, we answer that we do not know of any operated by the expansion and contraction of brass pipes. Self-acting or automatic boiler-feeders are not much used, as the circumstances under which water should be supplied vary so much that discretion must be used, and this no machine possesses. We cannot comply with your modest request to write you concerning all the latest improvements in apparatus of this kind.

Money Received.

At the Scientific American Office, on account of Patent Office business, from Wednesday, Feb. 10, 1864, to Wednesday, Feb. 17, 1864:—

L. H., of N. Y., \$25; A. G., of N. Y., \$25; W. D., of N. Y., \$30; W. S., of N. Y., \$16; W. F. R., of N. Y., \$20; J. S. L., of N. Y., \$44; J. A. E., of N. J., \$45; H. & McN., of N. Y., \$20; E. D. W., of N. Y., \$15; D. M., of N. Y., \$16; T. A. McC., of N. Y., \$20; J. Van D., of Mich., \$30; H. W. McK., of N. Y., \$16; F. W. D., of N. Y., \$41; C. T. B., of N. Y., \$16; W. H. B., of Ill., \$50; W. & A., of N. Y., \$159; F. R., of Conn., \$32; W. F., of Mass., \$55; A. P., of Pa., \$16; T. B., of Mass., \$16; D. G., of Wis., \$15; T. H. S., of U. S. A., \$20; J. W. H., of N. Y., \$15; J. W., of Mass., \$30; E. D. E., of Ind., \$159; W. P., of Iowa, \$15; A. S., of Iowa, \$16; A. H. W., of Mich., \$16; S. F. W., of Iowa, \$16; F. B., of Ill., \$26; K. P. K., of Vt., \$25; W. C. B., of Cal., \$20; G. B. B., of Ind., \$25; M. & B., of N. Y., \$25; A. B., of N. J., \$30; W. N., of N. Y., \$25; G. T. T., of N. J., \$16; R. R. C., of N. Y., \$41; T. U., of N. Y., \$10; W. H., of Wis., \$20; W. B. & St. J., of N. Y., \$46; W. D., of N. Y., \$16; L. W., of Conn., \$22; C. H. H., of N. Y., \$45; S. & S., of N. Y., \$20; F. N., of N. Y., \$16; W. C. S., of N. Y., \$16; J. & D., of N. Y., \$20; O. W., of N. Y., \$16; J. A. H., of Vt., \$16; O. R. B., of N. Y., \$159; G. S., of Pa., \$25; W. W., of N. Y., \$16; J. H., of Pa., \$15; A. J. M., of N. Y., \$10; G. E. H., of Maine, \$16; W. B., of Mass., \$16; H. & R., of Pa., \$12; W. A. B., of Vt., \$16; R. W. A., of Mich., \$15; F. R. W., of Ill., \$15; J. G., of Minn., \$12; S. T. W., of N. J., \$16; T. D. R., of N. Y., \$25; B. L., of Mich., \$16; F. S., of Pa., \$16; G. R. H. of Mo., \$25; E. C. H., of N. H., \$48; H. G. E., of N. Y., \$16; D. S. S., of Ind., \$20; S. W. P., of Mass., \$20; S. & C., of N. Y., \$16; T. J. T., of Md., \$20; J. H. K., of N. Y., \$16; F. H. B., of N. Y., \$56; W. B., of N. Y., \$16; J. H., of Ill., \$20; B. G. M., of N. Y., \$44; D. A. G., of N. Y., \$22; M. V. C., of Mass., \$25; T. F. B., of N. Y., \$16; W. & J., of N. H., \$25; N. L., of N. J., \$22; S. & B., of Ill., \$395; W. C. H., of Ohio, \$25; J. T. R., of N. J., \$16; T. L. W., of Wis., \$16; E. E., of Ill., \$16; B. & H., of N. J., \$25; S. W., of N. J., \$41; D. P., of R. L., \$15; W. & T., of Conn., \$25; F. G., of Mich., \$25; J. W. O., of Ill., \$15; A. W. G., of Mass., \$25; S. J. M., of N. Y., \$560; F. J. T., of Conn., \$16.

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, Feb. 10, 1864, to Wednesday Feb. 17, 1864:—L. H. of N. Y.; M. & B. of N. Y.; A. G. of N. Y.; E. D. W. of N. Y. (2 cases); W. B. & St. John, of N. Y.; F. W. D. of N. Y.; H. W. of N. Y.; W. N. of N. Y.; W. D. of N. Y.; G. S. L. of N. Y.; W. B. & St. J. of N. Y.; E. D. W. of N. Y. (2 cases); L. W. of N. Y.; F. H. B. of N. Y.; F. W. D. of N. Y.; B. G. M. of N. Y.; A. W. G. of Mass.; K. P. K. of Vt.; W. C. H. of O.; H. & R. of Pa.; J. G. of Minn.; F. G. of Mich.; B. H. of N. J.; J. W. of Mass.; J. P. of N. Y.; G. S. of Pa.; W. & J. of N. H.; W. L. of Md. (2 cases); S. A. T. of O.; W. & T. of Conn.; F. B. of Ill.; W. N. B. of Iowa; N. L. of N. J.; T. D. R. of N. Y.; G. B. B. of Ind.; G. R. H. of Mo.

RATES OF ADVERTISING.

TWENTY-FIVE CENTS per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, 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.

MATCH-STICKER.—THE UNDERSIGNED WISH TO purchase a new or second-hand machine for making match sticks and setting them into frames ready for dipping. Address W. T. BROWN & CO., Portland, Me. 9 2*

NEW YORK STATE BUSINESS DIRECTORY, 1864. CONTAINING THE NAMES, BUSINESSES AND ADDRESSES of all Merchants, Manufacturers and Professional Men throughout the State. Also lists of Insurance, Railroad and Manufacturing Companies, Banks, Post Offices, Newspapers, Academies, &c., &c.

By ADAMS, SAMPSON & CO., Directory Publishers, No. 91 Washington street, Boston, Mass., and 78 State street, Albany, N. Y.

CAUTION.—The Public are hereby cautioned against paying MONEY IN ADVANCE, for advertisements, to any person representing himself to be our agent, as such persons are in no way connected with us, and should be treated as impostors. Our agents never ask for money in advance of publication. 9 5*

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BAIRD'S PATENT

INCORUSTATION PREVENTER, AND REMOYER, FOR STEAM BOILERS in either Salt or Fresh Water.—No invention connected with Steam Power combines so many advantages as this. THE ECONOMY IN FUEL ALONE, from its use, repays the cost of the preventive. Certificates from Engineers and owners of Steam Boilers, at sea and on shore, can be seen at the office of JAS. F. LEVIN, 23 Central Wharf, Boston, Mass. 9 10*

FIFTY PORTABLE ENGINES WANTED, OF VARIOUS SIZES.—Enclose catalogue or price list with discount to the trade. Address J. C. RICHARDS, Manufacturer of Richards' Improved Power Corn Shellcr, 89 Washington street, Chicago, Ills. P. O. Box 1445. 9 1*

AGENCY FOR THE INTRODUCTION AND SALE OF PATENT INVENTIONS.—Inventors and manufacturers desirous of having their inventions introduced into this country and abroad, will find it to their interest to send descriptive, illustrated pamphlets or circulars to A. SCHELLER, 370 Bowery, New York. 8 3*