

[OFFICIAL.]
Index of Inventions
FOR WHICH
Letters Patent of the United States
WERE GRANTED FOR THE WEEK ENDING
June 10, 1873,
AND EACH BEARING THAT DATE.
[Those marked (r) are reissued patents.]

Table listing various inventions such as Alarm, letter box, A. Taylor; Annunciator, electric, G. W. Shawk; Annunciator, speaking tube, D. Rousseau; Bale tie, E. P. Jones; Bale tie, cotton, A. S. Armstrong; etc.

Table listing various inventions such as Printing and dyeing fabrics, T. Crossley; Pulley, friction attachment, etc., H. Cox; Pump, reducing wood fiber to, T. B. Armitage; etc.

APPLICATIONS FOR EXTENSIONS.
Applications have been duly filed, and are now pending for the extension of the following Letters Patent. Hearings upon the respective applications are appointed for the days hereinafter mentioned:

- 25,395.—BOOT HEEL.—S. Dodge, Jr., B. Potter, Jr. Aug. 27.
25,442.—BOILER AND STEAMER.—D. R. Prindle. Aug. 27.
25,443.—SEEDING MACHINE.—S. G. Randall. Aug. 27.
25,747.—EMERY AND CAOUTCHOUC.—T. J. Mayall. Sept. 24.
25,484.—GRAIN SEPARATOR.—J. L. Booth. September 3.
25,499.—RAILROAD CAR SEAT.—E. Wheeler. September 3.

EXTENSIONS GRANTED.
24,267.—ORE SEPARATOR.—W. O. Bourne.
24,402.—STEAM PRESSURE REGULATOR.—A. P. Pitkin.
24,428.—TRIP HAMMER.—B. Hotchkiss.
24,432.—ROLLING METAL FOR JEWELRY.—J. S. Palmer.
24,436.—RAILROAD BAR.—H. Webb.

DISCLAIMER.
24,307.—ORE SEPARATOR.—W. O. Bourne.

DESIGNS PATENTED.
6,699 & 6,700.—ALE PUMPS.—S. Lane, Jr., Englewood, N. J.
6,701.—COOKING STOVE.—G. Smith & H. Brown, Phila., Pa.
6,702.—CAPE.—M. Landenberger, Philadelphia, Pa.

TRADE MARKS REGISTERED.
1,299.—DRUGGISTS' GOODS.—Arnold & McNary, N. Y. city.
1,300.—WHISKY.—J. Bungeardner & Sons, Staunton, Va.
1,301.—HOG PRODUCTS.—G. Cassard & Son, Baltimore, Md.
1,302.—MEDICINES.—S. De Grath, Jersey City, N. J.
1,303.—STOVES, ETC.—Hicks & Wolfe, Troy, N. Y.
1,304.—SILICIAS, ETC.—Leshar & Co., New York city.
1,305.—CURED FISH.—H. Mayo & Co., Boston, Mass.
1,306.—FLAVORING EXTRACTS.—Steele & Price, Chicago, Ill.
1,307 & 1,308.—FRUIT JARS.—Consolidated Fruit Jar Co., New York city.
1,309.—BOOKS.—D. C. Cutler, Carthage, Ill.
1,310.—RAISINS.—F. C. Lewis, Trenton, N. J.
1,311.—CHEWING TOBACCO.—Liggett & Myers, St. Louis, Mo.
1,312.—COD LIVER OIL.—H. M. Rogers & Co., N. Y. city.
1,313.—MEDICINE.—E. M. Tubbs & Co., Manchester, N. H.

SCHEDULE OF PATENT FEES:
On each Caveat. \$10
On each Trade-Mark. \$25
On filing each application for a Patent (17 years). \$15
On issuing each original Patent. \$20
On appeal to Examiners-in-Chief. \$10
On appeal to Commissioner of Patents. \$20
On application for Reissue. \$30
On application for Extension of Patent. \$50
On granting the Extension. \$50
On filing a Disclaimer. \$10
On an application for Design (3 1/2 years). \$10
On an application for Design (7 years). \$15
On an application for Design (14 years). \$30

VALUE OF PATENTS,
And How to Obtain Them.
Practical Hints to Inventors

PROBABLY no investment of a small sum of money brings a greater return than the expense incurred in obtaining a patent even when the invention is but a small one. Large inventions are found to pay correspondingly well. The names of Blanchard, Morse, Bigelow, Colt, Ericsson, Howe, McCormick, Hoe and others, who have amassed immense fortunes from their inventions, are well known. And there are thousands of others who have realized large sums from their patents.

More than FIFTY THOUSAND inventors have availed themselves of the services of MUNN & Co. during the TWENTY-SIX years they have acted as solicitors and Publishers of the SCIENTIFIC AMERICAN. They stand at the head in this class of business; and their large corps of assistants, mostly selected from the ranks of the Patent Office: men capable of rendering the best service to the inventor, from the experience practically obtained while examiners in the Patent Office: enables MUNN & Co. to do everything appertaining to patents BETTER AND CHEAPER than any other reliable agency.

HOW TO OBTAIN Patents. This is the closing inquiry in nearly every letter, describing some invention which comes to this office. A positive answer can only be had by presenting a complete application for a patent to the Commissioner of Patents. An application consists of a Model, Drawings, Petition, Oath, and full Specification. Various official rules and formalities must also be observed. The efforts of the inventor to do all this business himself are generally without success. After great perplexity and delay, he is usually glad to seek the aid of persons experienced in patent business, and have all the work done over again. The best plan is to solicit proper advice at the beginning. If the parties consulted are honorable men, the inventor may safely confide his ideas to them; they will advise whether the improvement is probably patentable, and will give him all the directions needful to protect his rights.

How Can I Best Secure My Invention? This is an inquiry which one inventor naturally asks another, who has had some experience in obtaining patents. His answer generally is as follows, and correct: Construct a neat model, not over a foot in any dimension—smaller if possible—and send by express, prepaid, addressed to MUNN & Co., 37 Park Row, together with a description of its operation and merits. On receipt thereof, they will examine the invention carefully, and advise you as to its patentability, free of charge. Or, if you have not time, or the means at hand, to construct a model, make as good a pen and ink sketch of the improvement as possible and send by mail. An answer as to the prospect of a patent will be received, usually, by return of mail. It is sometimes best to have a search made at the Patent Office; such a measure often saves the cost of an application for a patent.

Preliminary Examination. In order to have such search, make out a written description of the invention, in your own words, and a pencil, or pen and ink, sketch. Send these, with the fee of \$5, by mail, addressed to MUNN & Co., 37 Park Row, and in due time you will receive an acknowledgment thereof, followed by a written report in regard to the patentability of your improvement. This special search is made with great care, among the models and patents at Washington, to ascertain whether the improvement presented is patentable.

Reissues. A reissue is granted to the original patentee, his heirs, or the assignees of the entire interest, when, by reason of an insufficient or defective specification, the original patent is invalid, provided the error has arisen from inadvertence, accident, or mistake, without any fraudulent or deceptive intention. A patentee may, at his option, have in his reissue a separate patent for each distinct part of the invention comprehended in his original application by paying the required fee in each case, and complying with the other requirements of the law, as in original applications. Address MUNN & Co., 37 Park Row, New York, for full particulars.

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. 37 Park Row, New York.

Design Patents. Foreign designers and manufacturers, who send goods to this country, may secure patents here upon their new patterns, and thus prevent others from fabricating or selling the same goods in this market. A patent for a design may be granted to any person, whether citizen or alien, for any new and original design for a manufacture, bust, statue, alto relievo, or bas relief, any new and original design for the printing of woolen, silk, cotton, or other fabrics, any new and original impression, ornament, pattern, print, or picture, to be printed, painted, cast, or otherwise placed on or worked into any article of manufacture. Design patents are equally as important to citizens as to foreigners. For full particulars send for pamphlet to MUNN & Co., 37 Park Row, New York.

Rejected Cases. Rejected cases, or defective papers, remodeled for parties who have made applications for themselves, or through other agents. Terms moderate. Address MUNN & Co., stating particulars.

Value of Extended Patents. Did patentees realize the fact that their inventions are likely to be more productive of profit during the seven

years of extension than the first full term for which their patents were granted, we think more would avail themselves of the extension privilege. Patents granted prior to 1831 may be extended for seven years, for the benefit of the inventor, or of his heirs in case of the decease of former, by due application to the Patent Office, ninety days before the termination of the patent. The extended time inures to the benefit of the inventor, the assignees under the first term having no rights under the extension except by special agreement. The Government fee for an extension is \$100, and it is necessary that good professional service be obtained to conduct the business before the Patent Office. Full information as to extensions may be had by addressing MUNN & Co., 37 Park Row, New York.

Trademarks. Any person or firm domiciled in the United States, or any firm or corporation residing in any foreign country where similar privileges are extended to citizens of the United States, may register their designs and obtain protection. This is very important to manufacturers in this country, and equally so to foreigners. For full particulars address MUNN & Co., 37 Park Row, New York.

Canadian Patents. On the first of September, 1872, the new patent law of Canada went into force, and patents are now granted to citizens of the United States on the same favorable terms as to citizens of the Dominion. In order to apply for a patent in Canada, the applicant must furnish a model, specification and duplicate drawings, substantially the same as in applying for an American patent. The patent may be taken out either for five years (government fee \$20), or for ten years (government fee \$40) or for fifteen years (government fee \$60). The five and ten year patents may be extended to the term of fifteen years. The formalities for extension are simple and not expensive.

American inventions, even if already patented in this country, can be patented in Canada provided the American patent is not more than one year old. All persons who desire to take out patents in Canada are requested to communicate with MUNN & Co., 37 Park Row, New York, who will give prompt attention to the business and furnish full instruction.

Foreign Patents. The population of Great Britain is 31,000,000; of France, 37,000,000; Belgium, 5,000,000; Austria, 36,000,000; Prussia, 40,000,000, and Russia, 70,000,000. Patents may be secured by American citizens in all of these countries. Now is the time, when business is dull at home, to take advantage of these immense foreign fields. Mechanical improvements of all kinds are always in demand in Europe. There will never be a better time than the present to take patents abroad. We have reliable business connections with the principal capitals of Europe. A large share of all the patents secured in foreign countries by Americans are obtained through our Agency. Address MUNN & Co., 37 Park Row, New York. Circulars with full information on foreign patents, furnished free.

Copies of Patents. Persons desiring any patent issued from 1836 to November 26, 1872, can be supplied with official copies at a reasonable cost, the price depending upon the extent of drawings and length of specification. Any patent issued since November 27, 1867, at which time the Patent Office commenced printing the drawing and specifications, may be had by remitting to this office \$1.

A copy of the claims of any patent issued since 1836 will be furnished for \$1. When ordering copies, please to remit for the same as above, and state name of patentee, title of invention, and date of patent. Address MUNN & Co., Patent Solicitors 37 Park Row, New York.

MUNN & CO., PUBLISHERS SCIENTIFIC AMERICAN, 37 Park Row, New York. OFFICE IN WASHINGTON—Corner F and 7th Streets, opposite Patent Office.

Advertisements. RATES OF ADVERTISING. Back Page - - - - - \$1.00 a line. Inside Page - - - - - 75 cents a line. Engravings may head advertisements at the same rate per line, by measurement, as the letter-press.

TO INVESTORS. The Northern Pacific Railroad Company having determined to close its 7-30 First Mortgage Gold Loan, and thereafter to pay no higher rate of interest than 6 per cent on further issues of its bonds, THE LIMITED REMAINDER OF THE 7-30 LOAN IS NOW BEING DISPOSED OF through the usual agencies.

This affords a desirable opportunity to persons wishing to reinvest July interest or dividends. The Company now has more than 500 miles of its road built and in operation, including the entire Eastern Division connecting Lake Superior and the navigation of the Mississippi River; the work of construction is progressing satisfactorily; the Company has earned title to nearly Ten Million Acres of its Land Grant, and sales of lands have thus far averaged \$5.66 per acre. All marketable securities are received in exchange for Northern Pacific.

JAY COOKE & CO., 20 Wall Street, New York.