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Winnower, reciprocating, T. Bolles.....	146,643

**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:  
27,973.—PRINTING PRESS.—F. O. Degener. April 8.  
28,014.—METALLIC CASE.—W. B. Scaife. April 8.  
28,043.—TEMPLE.—J. H. Woodward. April 8.

**EXTENSIONS GRANTED.**  
26,891.—SPECTACLE CASE CATCH.—G. N. Cummings.  
26,902.—PLANING MACHINE.—S. S. Gray.  
26,906.—SEWING MACHINE.—A. F. Johnson.  
26,914.—CLOTHES WRINGER.—R. O. Meldrum et al.  
26,919.—REPEATING FIRE ARM.—W. H. Morris et al.  
26,948.—SEWING MACHINE STITCH.—A. F. Johnson.  
26,952.—LAMP.—G. Neilson.

**DISCLAIMERS.**  
26,919.—REPEATING FIRE ARM.—W. H. Morris et al.  
26,919.—REPEATING FIRE ARM.—W. H. Morris et al.

**DESIGNS PATENTED.**  
7,112 to 7,115.—CARPETS.—A. Heald, Philadelphia, Pa.  
7,116.—NECK RUFF.—U. D. Mannville, New Haven, Ct.  
7,117.—BIRD CAGE.—J. Maxheimer, New York city.  
7,118 to 7,124.—OIL CLOTHS.—C. T. & V. E. Meyer, Bergen, N. J.  
7,125 and 7,126.—CARPETS.—C. Righter, Philadelphia, Pa.  
7,127.—OIL CLOTH.—J. Barrett, New York city.  
7,128 to 7,132.—OIL CLOTHS.—J. Hutchison, Newark, N. J.

**TRADE MARKS REGISTERED.**  
1,598.—FLOUR.—J. Hannan, Chambersburg, Pa.  
1,599.—GYPSUM.—H. C. Hulbert, New York city.  
1,600.—MEDICINE.—J. Pownall, Williamsburg, N. Y.  
1,601.—MATCHES.—W. Roeber, New York city.  
1,602 to 1,605.—WHISKIES.—G. W. Kidd & Co., N. Y. city.

**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 application for Design (7 years).....	\$15
On application for Design (14 years).....	\$30

**CANADIAN PATENTS.**

**LIST OF PATENTS GRANTED IN CANADA, JANUARY 3, 1873.**

3,068.—T. G. Messenger, Loughborough, Eng. Improvement on the coupling of pipes and in the fittings therefor, called "Messenger's Improved Pipe Joints." Jan. 3, 1874.
3,069.—J. D. Marshbank, Harrisburgh, Pa., U. S., and J. R. Annett, Montreal, P. Q. Improvements on a cupola furnace for melting iron, called "Marshbank's Foundry Cupola." Jan. 3, 1874.
3,060.—J. M. Armour, Syracuse, Onondaga county, N. Y., U. S. Improvements in knitting machines, called "Armour's Improved Knitting Machine." Jan. 3, 1874.
3,061.—E. C. Goddard, Swetsburgh, Missisquoi county, P. Q. Improvements on the Itabaca Wheel Rake, called "Goddard's Rake Lever Attachment." Jan. 3, 1874.
3,062.—J. V. Browne, New York city, U. S., and R. P. Fidler, Sterling, Hastings county, Ontario. Improvements on muclage bottles, called "Vincent's Self Feeding Muclage Bottle for the Economical Use of Muclage." Jan. 3, 1874.
3,063.—S. Collinson, St. Catharine's, Lincoln county, Ontario. Machine for cutting sickles, called "Collinson's Reaper Sickle Cutter." Jan. 3, 1874.
3,064.—S. Collinson, St. Catharine's, Lincoln county, Ontario. Improvements on tongs used in machinery, called "Collinson's Patent Tongs." Jan. 3, 1874.
3,065.—E. Sahn, Greenville, Mercer county, Pa., U. S. A combined square and gage for carpenter's use, called "Sahn's Combined Square and Gage." Jan. 3, 1874.
3,066.—Wm. Todd, Portland, Cumberland county, Me., U. S. Improvements on car couplings and the method of attaching them to the cars, called "Todd's Car Coupling." Jan. 3, 1874.
3,067.—G. M. Skinner, Gananoque, Leeds county, Ontario. Improvements on spoon baits for fishing, called "Skinner's Fluted Trolling Spoon." Jan. 3, 1874.
3,068.—Wm. Gowen, Wanson, Marathon county, Wis., U. S. Improvement on saw mills, called "Gowen's Improvement in Saw Mill." Jan. 3, 1874.
3,069.—G. B. De Boucherville, Quebec. Amelioration a la maniere de se servir d'une corde pour echapper a un incendie, called "Sauveleur d'Incendie." A new mode of using a rope in case of fire. Jan. 3, 1874.

3,070.—J. A. Green, Hamilton, Ontario. Improvements in railway switches, called "Green's Self Adjustable Railway Switch." Jan. 3, 1874.
3,071.—Wm. Hamilton, Neversink, Sullivan county, N. Y., U. S. Improvements on machines for making ox shoes, called "Hamilton's Ox Shoe Machine." Jan. 3, 1874.
3,072.—D. J. Casement, Painesville, Lake county, Ohio., U. S. Improvement on seal locks, called "Casement's Seal Lock." Jan. 3, 1874.
3,073.—J. Wilson, Kingston, Ontario. Improvements on paddle wheels, called "Wilson's Paddle Wheel." Jan. 3, 1874.
3,074.—A. Amos, Potsdam Junction, St. Lawrence county, N. Y., U. S. Improvements on horse hay rakes, called "Amos' Improved Horse Hay Rake." Jan. 3, 1874.
3,075.—C. McPhail, Big Harbor, Inverness county, Nova Scotia. Improvements on armor for ships of war, called "McPhail's Armor for War Ships." Jan. 3, 1874.
3,076.—C. H. Chapman, Shirley, Mass., U. S. Improvements on machinery for weaving tape, called "Chapman's Tape Weaving Loom." Jan. 3, 1874.
3,077.—Wm. McAllister, St. Lawrence, Mass., U. S. Improvements for protecting buildings from fire, called "The McAllister Fire Protector." Jan. 3, 1874.
3,078.—I. Woolridge, Dean's Corner, Lake county, Ill., U. S. Improvements on land rollers, called "Woolridge's Improved Land Roller." Jan. 3, 1874.
3,079.—W. C. Oavol, Jr., Fall River, Bristol county, Mass., U. S. Improvements in hose leak stoppers, called "Davol's Fire Hose Leak Stopper." Jan. 3, 1874.
3,080.—I. Helton, Carter's Depot, Carter county, Tenn., U. S. Improvements in a medical compound, called "Fever Specific," the title or name whereof is "Fever Specific Compound." Jan. 3, 1874.
3,081.—R. H. Hudgn, Howard, Kent county, Ontario. Improvements in the formation and construction of gate posts, called "Hudgn's Gate Post." Jan. 3, 1874.
3,082.—M. Boch, Brooklyn, Kings county, N. Y., U. S. Improvements on fasteners for shoes, etc., called "Boch's Improved Shoe Fastener." Jan. 3, 1874.
3,083.—J. Rogers, Brooklyn, Kings county, N. Y., U. S. Improvements on apparatus for manufacturing lamp black, called "Rogers' Improved Lamp Black Furnace." Jan. 3, 1874.

**HOW TO OBTAIN Patents and Caveats IN CANADA.**

**P**ATENTS are now granted to inventors in Canada, without distinction as to the nationality of the applicant. The proceedings to obtain patents in Canada are nearly the same as in the United States. The applicant is required to furnish a model, with specification and drawings in duplicate. It is also necessary for him to sign and make affidavit to the originality of the invention. The total expense, in ordinary cases, to apply for a Canadian patent, is \$75, U. S. currency. This includes the government fees for the first five years, and also our (Munn & Co.'s) charges for preparing drawings, specifications and papers, and attending to the entire business. The holder of the patent is entitled to two extensions of the patent, each for five years, making fifteen years in all. If the inventor assigns the patent, the assignee enjoys all the rights of the inventor. A small working model must be furnished, made to any convenient scale. The dimensions of the model should not exceed twelve inches. If the invention consists of a composition of matter, samples of the composition, and also of the several ingredients, must be furnished. Persons who desire to apply for patents in Canada are requested to send to us (MUNN & CO.), by express, a model with a description, in their own language, showing the merits and operation of the invention, remitting also the fees as above for such term for the patent as they may elect. We will then immediately prepare the drawings and specification, and send the latter to the applicant for his examination, signature, and affidavit. It requires from four to twelve weeks' time, after completion of the papers, to obtain the decision of the Canadian Patent Office. Remit the fees by check, draft, or Postal order. Do not send the money in the box with model. Give us your name in full, middle name included. Inventions that have already been patented in the United States for not more than one year may also be patented in Canada. On filing an application for a Canadian patent, the Commissioner causes an examination as to the novelty and utility of the invention. If found lacking in either of these particulars, the application will be rejected, in which case no portion of the fees paid will be returned to the applicant. Inventors may temporarily secure their improvements in Canada by filing *caveats*; expense thereof, \$35 in full. For further information about Canadian patents, assignments, etc., address **MUNN & CO., 37 Park Row, New York.**

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

**P**ROBABLY 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.

**To Make an Application for a Patent.**  
The applicant for a patent should furnish a model of his invention if susceptible of one, although sometimes it may be dispensed with; or, if the invention be a chemical production, he must furnish samples of the ingredients of which his composition consists. These should be securely packed, the inventor's name marked on them and sent by express, pre-paid. Small models, from a distance, can often be sent cheaper by mail. The safest way to remit money is by a draft or postal order, 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.

**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.

**Value of Extended Patents.**  
Did patents realize the fact that their inventions are likely to be more productive of profit during the seven years of extension than the first term for which their patents were granted, we think more would avail themselves of the extension privilege. Patents granted prior to 1861 may be extended for seven years, for the benefit of the inventor, or of his heirs in case of the decease of the inventor, 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.

**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, orbas relief, any new and original design for the printing of woollen 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.

**Copies of Patents.**  
Persons desiring any patent issued from 1836 to November 26, 1867, 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 drawings 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. will be happy to see inventors in person at their office, or to advise them by letter. In all cases they may expect an honest opinion. For such consultations, opinions, and advice, no charge is made. Write plain; do not use pencil or pale ink; be brief. All business committed to our care, and all consultations, are kept secret and strictly confidential. In all matters pertaining to patents, such as conducting interferences, procuring extensions, drawing assignments, examinations into the validity of patents, etc. special care and attention is given. For information and for pamphlets of instruction and advice, Address **MUNN & CO., PUBLISHERS SCIENTIFIC AMERICAN, 37 Park Row, New York.** OFFICE IN WASHINGTON—Corner F and 7th Streets, opposite Patent Office.