

RECENT AMERICAN PATENTS.

The following are some of the most important improvements for which Letters Patent were issued from the United States Patent Office last week; the claims may be found in the official list:—

**Burglar-proof Lock.**—This invention relates to an improved lock of that class which are provided with tumblers operated through the medium of a key and the bolt moved by a separate or distinct application of power. The object of the invention is to simplify the construction and arrangement of this class of locks, so that it will not be necessary to employ both hands simultaneously in unlocking and locking the lock, and the lock rendered incapable of being picked by tampering with the tumblers while in a locked or unlocked state. To this end the invention consists in having the tumblers connected with a swinging plate which is operated by the arbor that shoots the bolt, and having each tumbler, at one end, provided with a pendant rod which passes into the key-slot or hole; the above parts being used in connection with a tumbler stop, and all arranged in such a manner that the key may first be inserted in the lock and the pendants of the tumblers pressed upon it by the movement of the swinging plate under the action of the bolt knob, so that the tumblers may be adjusted in proper position to admit of the moving of the bolt by the time the knob-arbor comes in contact with it. The knob-arbor, by this arrangement, is made to perform the double function of adjusting the tumblers and shooting or operating the bolt, and the desired result is attained. Caspar Jagy and Frederick Denzler, of New York city, are the inventors of this lock.

**Sewing Machine.**—The first part of this invention relates to the employment, for operating the needle, of a rocker which produces what is called the "loop motion," to commence the formation of the loop and to obtain time for the passage of the shuttle or looper into or through it, by the point of connection of the needle bar passing a little beyond a position directly below the axis of oscillation of the rocker; and it consists in a certain arrangement of the said rocker and of its connections with the needle and with a crank or its equivalent on the main shaft or other rotating shaft of the machine, whereby the central stud or bearing of the rocker is relieved of strain at the time of the entrance of the needle into the cloth. The second part of the invention relates to the employment of the needle to produce the feed movement of the cloth; and it consists in a certain mode of applying and operating the needle bar, whereby the needle is caused to produce the feed in a more effective manner than in the needle-feeds heretofore employed. The third part of the invention relates to the take-up or apparatus for controlling the slack of the needle-thread, and it consists in a certain mode of applying and operating such take-up whereby it is rendered entirely independent of all parts of the needle-operating mechanism. Charles Scofield and A. J. Simmons, of Utica, N. Y., are the inventors of this improvement.

SPECIAL NOTICES.

WM. UPFIELD, of Lancaster, Ohio, has petitioned for a patent granted to him June 25, 1850, for an improved boot-tree.

It is ordered that the said petition be heard at the Patent Office, Washington, on Monday, June 6, 1864.

WILLIAM E. WARD, of Portchester, N. Y., has petitioned for a patent granted to him July 30, 1850, for an improved bolt and rivet machine.

It is ordered that the said petition be heard at the Patent Office, Washington, on Monday, July 11, 1864.

All persons interested are required to appear and show cause why said petitions should not be granted. Persons opposing the extension are required to file their testimony in writing, at least twenty days before the day of hearing.

The Way to introduce the Metrical System.

The Congressional committee on a reform in weights and measures will hardly need the suggestion from us, that the proper mode of introducing the French system will be for Congress to pass a law making that the legal system at the end of five or ten years; so as to give the several States an opportunity to have it thoroughly taught in the public schools.



ISSUED FROM THE UNITED STATES PATENT-OFFICE

FOR THE WEEK ENDING MARCH 1, 1864.

Reported Officially for the Scientific American.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, New York.

41,749.—Truss Pad.—Solomon Andrews, Perth Amboy, N. J.:

I claim a hollow truss pad constructed as hereinbefore described, having one or more openings for the purpose of introducing the filling material, as set forth.

41,750.—Mode of preparing Albumenized Paper.—Henry F. Anthony, New York City:

I claim combining of mixing the nitrate of ammonia directly with the albumenizing fluid, in the manner and for the purpose substantially as set forth.

41,751.—Lamp.—Lewis J. Atwood, Waterbury, Conn.:

I claim, first, A straight or nearly straight connection extending from the moving part of the ring or hinge to the ratchet cap, when said connection is fitted so as to swing at its end, in opening or closing, and form a diagonal brace to the chimney when turned back, as and for the purposes specified.

Second, I claim connecting the straight swinging rod to the chimney-holder by the head and elongated opening for the rod as specified, whereby the rod is allowed to turn as the chimney-holder is moved on its hinge, as set forth.

41,752.—Wool Press.—J. C. Ball, Ionia county, Mich.:

I claim the end boards, h, in combination with the braces, m, the door or cap piece, n, the clamps, r, the platform, d, the post, c, the lever, p, the leaves, l, and the braces, b, the whole constructed as and for the purpose substantially as herein set forth.

41,753.—Automatic Cistern Regulator.—Abel Beach, Iowa City, Iowa:

I claim, first, The combination and arrangement of a float and valve with a conduit of water and a cistern, all substantially as shown and described.

Second, In combination therewith, the arrangement, A, for adjusting the length of the valve rod.

41,754.—Anchor.—Alexander Bradford, Raynham, Mass.:

I claim, first, The shank, A, having a head, B, forged upon it, and the two sets of flukes, C, C, fastened to the shank by rivets, and supported by the braces, D, D, substantially as herein shown, and—

Third, The palms, F, F, substantially of the same shape as here shown, for the double purpose, of entering the ground easily and of not fouling the cable, as above set forth.

41,755.—Curry-comb.—Charles B. Bristol, New Haven, Conn.:

I claim as a new article of manufacture, a curry-comb made wholly of longitudinal sections, or stripes, when the sections are formed, and riveted together, substantially as herein described.

41,756.—Safety Valve Attachment.—William Camerer, Reading, Pa.:

I claim a pressure equalizing spring, A, acting on the safety valve lever, D, in the manner and for the purpose substantially as set forth.

41,757.—Raisin-stoner.—Rosanna Carpenter, Portsmouth, N. H.:

I claim the arrangement of sets of levers to operate together in the manner and for the purpose substantially as set forth.

41,758.—Valve for Steam Engines.—Francis W. Clough, Springfield, Mass.:

I claim, first, The rotating valve, D, when applied to and used in combination with the head, E, of a steam cylinder, when said head is provided with ports for receiving steam to and exhausting it from the cylinder, substantially as herein set forth.

Second, I claim the pipes, h, h, in combination with the valve, D, having the compartments, g, g', g'', when arranged and operating, substantially in the manner and for the purpose described.

Third, The steam chest, B, and valve, C, in combination with the ports, H, H', and exhaust port, a, when applied to a steam cylinder, substantially in the manner and for the purpose herein set forth.

41,759.—Wringing-machine.—Matthew John Cluff, Waltham, Mass.:

I claim the method of securing a clothes-wringing machine to tubs of varying sizes and shapes by the use in combination with two stationary legs, of swivel brackets swinging on said legs and provided with set screws or other adjusting devices, substantially in the manner and for the purposes described.

I also claim constructing the frame of a clothes-wringing-machine with slots to hold the adjusting springs of the rollers of the machine, substantially in the manner and for the purposes described.

I also claim constructing the frame of a wringing-machine with slots to hold the adjusting springs of the rollers in combination with the extension of the vertical sides thereof forming pins or legs for the swivel brackets as shown and described, the whole being arranged to operate in the manner and for the purposes set forth.

41,760.—Gate.—Reuben R. Cool, Millen's Bay, N. Y.:

I claim the combination of the swinging gate, A, segment, B, cords or chains, D, D', post, F, and sliding catch, I, all arranged to operate, substantially as and for the purposes specified.

[This invention relates to an improved means for opening and closing gates without alighting from a horse or getting out of a vehicle. The invention consists in having the inner post of the gate, on which the latter swings, placed in an inclined position so that its upper journal will project over its lower one and towards the outer, and free or disengaged end of the gate, and having the upper journal of said post fitted in a pivoted segment with cords or chains attached, and all arranged in such a manner that by pulling said cords or chains the segment will be moved or turned, and the gate post previously alluded to, thrown out of a vertical position, so as to cause the gate to open and close by its own gravity.]

41,761.—Vegetable-cutter.—Christian Degel, New York City:

I claim an ordinary table provided with a flap, d, in combination with the receptacle beneath such flap, and with the horizontal cutter wheel, o, provided with the adjustable cutters, r, and rotated by the crank, h, for the purposes and as specified.

41,762.—Steam Boiler.—Edward N. Dickerson, New York City:

I claim, first, The combination, in a boiler, of tubes through which the water passes, and which are acted on by the heated gases, with other tubes, through which the same gases pass, and around which the steam circulates and is superheated, substantially as described.

Second, The arrangement of the water tubes, of a tubular boiler, so that by removing doors or plates both ends of the tubes may be reached and cleaned without going into the boiler.

41,763.—Apparatus for amalgamating Gold and Silver.—John S. Diltz, Mount Ophir, Cal.:

I claim the rotary muller together with the copper pan, as applied to this boiling process.

41,764.—Pump.—James K. Fairbank, Waupun, Wis.:

I claim a pump having an interior cylinder adjusted in the manner set forth, and also the bands, B, B, and bolts, f, f, arranged to strengthen the upper part of the stock and afford bearings for the handle, all as shown and described.

41,765.—Carriage.—Edward France, Cobleskill, N. Y.:

I claim, first, In combination with two bolts operating in unison as described herein described spring mechanism for the automatic locking or unlocking of the shafts, as set forth.

Second, The combination of two bolts coupled as before referred to, and spring mechanism arranged to operate as described with a ratchet and pawl for locking the bolts, substantially as herein set forth.

Third, Combining with the bolts and spring a pawl and ratchet so arranged or located as that it may be readily actuated to release the spring ratchet and effect the unlocking of the shafts, substantially as herein set forth.

Fourth, The method of locking the wheel plate or fifth wheel by operating a ratchet for the purpose of steadying the course of the vehicle, substantially as herein set forth.

41,766.—Muff.—John W. Gay, Brooklyn, N. Y.:

I claim a muff formed with a band or ring of fur at each end of the opening through the muff, as and for the purposes specified.

41,767.—Car Coupling.—Henry C. Glasgow, Chicago, Ill. Ante-dated Feb. 17, 1864:

I claim, first, The construction, combination, and arrangement of the castings, A, A', blocks, B, B', and partitions, b, with the sliding planks, E, E', rods, H, H', and springs, s, s, as and for the purposes herein shown and described.

Second, In combination with the foregoing, I claim the pin, c, with the stop or rest, c', and bent rod, e, and the slide, g, moving in a longitudinal slot, a, and the recess for the pin, b', arranged as and for the purposes specified.

41,768.—Wrench.—George W. Griswold, Abington, Pa.:

I claim in combination with the shank of the stationary jaw, and with the movable jaw of a wrench, the incline, e, and loose roller, h, for holding the movable jaw from slipping back, whilst it is always free to be moved forward, said roller being held up in place by a spring, substantially in the manner and for the purpose described.

41,769.—Cultivator.—Jacob Haeg, Shiloh, Ill.:

I claim the plow beams, I, fitted in the stays, K, and upon the rods, L, in combination with the springs, L', and curved plates, M, all arranged as and for the purpose specified.

[This invention consists in a novel arrangement of means for raising and lowering the plows, and also for moving or adjusting them laterally; all the parts being arranged in such a manner that the driver while on his seat will have complete control over the implement, and the latter rendered capable of plowing a row of corn at both sides at one operation, or by passing but once along or over the row.]

41,770.—Steam Boiler Furnaces.—John T. Hancock, Boston, Mass.:

I claim supplying commingled air and steam to ignited fuel in furnaces, &c., when the said air and steam are mixed in a separate vessel and introduced into a closed ash-pit below the fire chamber.

41,771.—Dust-pan.—Thomas George Harold, Brooklyn, N. Y.:

I claim, first, Corrugating the bottom of the dust-pan parallel or nearly so with the edge or lip, for the purposes specified.

Second, I claim constructing the sweeping lip of a dust-pan in a triangular form, sectionally for stiffening the same, as specified.

Third, I claim the inclined sweeping lip of a dust-pan, in combination with the corrugated bottom, substantially as specified.

41,772.—Guard for Paint Brushes.—E. C. Haserick, Lake Village, N. H.:

I claim the employment of the elastic looped band, B, in combination with the guard, D, and brush, A, in the manner and for the purpose herein shown and described.

[This invention consists in attaching to the paint brush a rod or bar of metal, wood, bone, or other suitable material, extending down by the side of the brush, so that in using the latter the former will rest upon the article being painted, and serve as a guard or guide, preventing the brush from slipping or sliding, and enabling the painter to paint window-sashes without daubing the glass, and also to stripe articles with straight stripes, and with far greater facility than usual.]

41,773.—Bathing Apparatus.—William Hensler, Milwaukee, Wis.:

I claim the cloth partition, I, fitted within the closet, A, as shown in connection with the pan, H, and chair, G, or any equivalent seat, for the purpose specified.

[This invention relates to a new and improved bathing apparatus, designed more particularly for invalids.]

41,774.—Lamp Burner.—E. Hobbs, Newark, N. J., and Alex. McNair, Bloomfield, N. J.:

I claim a tube placed at or attached to the exterior of the lamp burner, in connection with a horizontal rotating or slide stopper or cover applied to the tube, all arranged substantially in the manner as and for the purpose herein set forth.

[This invention consists in applying a tube to a lamp-burner at the outer side thereof, and having the upper end of said tube provided with a cap or cover, all arranged in such a manner that the lamp may be supplied with oil without unscrewing the burner from the lamp, or moving or disturbing any of the parts thereof, the cap or cover at the same time admitting of the top of the tube being very readily exposed to receive the nozzle of a lamp-filler, and also easily closed when the lamp is filled.]

41,775.—Drop Hammer.—Bennet Hotchkiss, New Haven, Conn.:

I claim, first, The friction clutch described in combination with the hammer of drop presses, when the same is constructed and operated in the manner and for the purpose substantially as herein set forth.

Second, The lever, L, and spindle, d, where the same are combined with the friction clutch described, for the purpose specified.

Third, The combination of the rod, P, and latch, O, with the lever, L, in the manner and for the purpose substantially as described.

Fourth, The levers, 6 and 7, when combined with the hammer of drop presses, in the manner and for the purpose specified.

Fifth, The lever, 5, and latch, 16, when combined with the hammer of drop presses, substantially as described.

Sixth, The combination with the rod, P, and the hammer of drop presses, substantially in the manner described.

41,776.—Transferrable Embroidery Pattern.—Charles Henry Hudson, Aske Terrace, Kingdom of Great Britain:

I claim, as an improved article of manufacture, a paper or fabric which has its surface provided with a transferrable embroidery pattern, as herein described.

[This invention consists in the employment or use of a pattern, printed or otherwise, produced upon paper or other suitable material, by means of ink composed of about equal parts of sugar and gum arabic mixed with any color, for the purpose of printing or transferring working patterns upon cotton, woolen, and other fabrics, in such a manner that from one pattern several working patterns can be obtained on any desired fabric for embroidery, braiding, stitching, and so forth.]



41,815.—Preparation of a Phosphate of Lime for Culinary and other Purposes.—E. N. Horsford, Cambridge, Mass., assignor to John H. Cheever, New York City.

I claim this double phosphate of lime of the composition and preparation substantially as above described for the uses above set forth.

41,816.—Current Water Wheel.—Jerome B. Howe (assignor to himself and Josiah C. Richards), Middleville, Mich.

I claim in the construction of a submerged vertical shaft current water wheel, the combination of the hinged buckets, d d, and braces, e e, arranged and operating substantially as and for the purposes herein specified.

41,817.—Lock.—Casper Jagy & Frederick Denzler (assignors to Walter K. Marvin), New York City:

We claim the tumbler, I, provided with the pendents, J, in combination with the plate, D, bolt, B, and knob arbor, G, all arranged to operate in the manner substantially as and for the purpose herein set forth.

41,818.—Cutting Tool for Turning.—Asa S. Libby, Manchester, N. H., assignor to Gordon McKay, Boston, Mass.:

I claim the described cutting tool when constructed and made so as to operate substantially as set forth.

41,819.—Apparatus for distilling and rectifying Whiskey and other Spirits.—Elijah Freeman Prentiss, Philadelphia, Pa., and Robert Adam Robertson, Liverpool, England:

We claim, first, The arrangement and combination of the chambers, I and 2, whereby the liquid to be distilled is made to act as a cooling medium in chamber 1, and as a regulating medium in chamber 2, substantially in the manner described.

Second, The employment of chamber No. 2, in combination with the regulator or its equivalent for maintaining any constant or desired temperature, substantially as described.

Third, The construction of the shelves in chamber, 4, substantially as described.

Fourth, The employment of one or more perforated cases, U, or its equivalent, in connection with either or both of the chambers, 2 or 3, for deodorizing, purifying, or flavoring the distilled spirit while in the vaporous condition, and before condensation, substantially as described.

Fifth, We claim the employment of chamber, 3, for raising the wash before it is introduced into chamber, 4, to a greater heat than said wash gets in chamber, 2, substantially in the manner described.

41,820.—Card Games.—C. W. Saladee (assignor to Samuel Hart & Isaac Levy), Paducah, Ky.:

I claim a "card register" (for registering the "points" and "games" in games at cards), when constructed and operating substantially as set forth.

41,821.—Water Wheel.—D. S. Stephens (assignor to himself and Charles Seymour), La Porte, Ind.:

I claim, first, The bucket, B, placed longitudinally on the shaft, A, with inclined planes, a, between them, in combination with the curved or spiral buckets, C C placed at each end of the buckets, B, and the latter encompassed by chutes, E, all being placed within a box or penstock, D, and arranged as and for the purpose specified.

Second, The inclined planes, a, placed on the shaft, A, between the buckets, B, when used in connection with the buckets, C C, box or penstock, D, and chutes, E, substantially as and for the purpose set forth.

[This invention relates to an improved water-wheel of that class in which the direct and reactive force of the water is obtained, and it consists in the employment or use of a series of buckets which are placed longitudinally on the shaft with inclined planes between them in combination with a series of curved or spiral buckets at each end of the longitudinal buckets, the latter being encompassed by chutes for directing the water properly upon them, and all placed within a box or penstock, whereby it is believed that an economical wheel is obtained and one that will give out a large percentage of the effective power of the water.]

41,822.—Machine for making Augers.—Mary Tower, (administratrix of the estate of Isaiah Tower, deceased), Rochester, N. Y.:

I claim a series of plates constructed and operating in the manner and for the purpose substantially as herein described and represented.

41,823.—Cement for sealing Preserve Cans.—Joseph B. Wilson (assignor to himself and John B. Moore), Fisherville, N. J.:

I claim a sealing cement composed of the ingredients and in the manner described.

DESIGNS.

1,904.—Jacket for Lamp Burners.—Charles Deavs (assignor to Archer & Pancoast), New York City:

1,905.—Spool-holder for Sewing Machines.—John G. Folsom, Winchendon, Mass.:

1,906.—Macaroni Spoon.—Webb Harding, Cambridge, Mass.:

1,907.—Floor-cloth Pattern.—John Neil (assignor to Wm. M. Brasher & S. H. Herriman), Clinton, Mass.:

1,908.—Floor-cloth Pattern.—Joseph Robley (assignor to Brasher, Herriman & Co.), Brooklyn, N. Y.:

EXTENSION.

Meat-cutting Apparatus.—John G. Perry, South Kingston, R. I. Patented Feb. 26, 1850. Re-issued Feb. 25, 1862:

I claim, first, The use and employment of the studs, s s s, Fig. 3, with one or both of the discharge openings, L L, substantially as described and for the purpose herein set forth.

Second, I claim combining the knives and space blocks with the case of a meat-cutter, in the manner substantially as herein described and for the purposes set forth.

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* acknowledgement of our reception of their funds.



PATENTS

GRANTED.

FOR SEVENTEEN YEARS!

MUNN & COMPANY,

In connection with the publication of the SCIENTIFIC AMERICAN, have acted as Solicitors and Attorneys for procuring "Letters Patent" for new inventions in the United States and in all foreign countries during the past seventeen years. Statistics show that nearly ONE-THIRD of all the applications made for patents in the United States are solicited through this office; while nearly THREE-FOURTHS of all the patents taken in foreign countries are procured through the same source. It is almost needless to add that, after seventeen years' experience in preparing specifications and drawings for the United States Patent Office, the proprietors of the SCIENTIFIC AMERICAN are perfectly conversant with the preparation of applications in the best manner, and the transaction of all business before the Patent Office; but they take pleasure in presenting the annexed testimonials from the three last ex-Commissioners of Patents:—

**MESSRS. MUNN & CO.**—I take pleasure in stating that, while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS. I have no doubt that the public confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the office, a marked degree of promptness, skill, and fidelity to the interests of your employers. Yours very truly,  
CHAS. MASON.

Judge Mason was succeeded by that eminent patriot and statesman, Hon. Joseph Holt, whose administration of the Patent Office was so distinguished that, upon the death of Gov. Brown, he was appointed to the office of Postmaster-General of the United States. Soon after entering upon his new duties, in March, 1859, he addressed to us the following very gratifying letter:

**MESSRS. MUNN & CO.**—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents, while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and doubt not justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully, your obedient servant,  
J. HOLT.

Hon. Wm. D. Bishop, late Member of Congress from Connecticut, succeeded Mr. Holt as Commissioner of Patents. Upon resigning the office he wrote to us as follows:

**MESSRS. MUNN & CO.**—It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency; and that I have ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully, your obedient servant,  
Wm. D. BISHOP.

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.

As an evidence of the confidence reposed in their Agency by inventors throughout the country, Messrs. MUNN & CO. would state that they have acted as agents for more than 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 they have taken out patents have addressed to them most flattering testimonials for the services rendered them; and the wealth which has inured to the individuals whose patents were secured through this office, and afterwards illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! Messrs. MUNN & CO. would state that they never had a more efficient corps of Draughtsmen and Specification Writers than those employed at present in their extensive offices, and that they are prepared to attend to patent business of all kinds in the quickest time and on the most liberal terms.

**PRELIMINARY EXAMINATIONS AT THE PATENT OFFICE.**  
The service which Messrs. MUNN & CO. 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 they may acquire of a similar invention from the records in their Home Office. But for a fee of \$5, accompanied with a model, or drawing and description, they 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 the Branch Office of Messrs. MUNN & CO., corner of F. and Seventh streets, Washington, by experienced and competent persons. Many thousands of such examinations have been made through this office, and it is a very wise course for every inventor to pursue. 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 a draft on New York, payable to the order of Messrs. 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.

Patents are now granted for SEVENTEEN years, and the Government fee required on filing an application for a patent is \$15. Other charges 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 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 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 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.

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