

[OFFICIAL.]

Index of Inventions

FOR WHICH

Letters Patent of the United States

WERE GRANTED IN THE WEEK ENDING

December 16, 1873,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

Table listing inventions with names and dates, including Alarm, tll, W. Mallek; Amalgamating gold and silver, J. T. Burbridge; Axles, rolling carriage, J. C. Richardson; Bale tie, cotton, D. S. Sklamer; Barrel tap and faucet, G. B. Taylor; Battling, mowing, F. W. Bloodgood; Bedstead, sofa, P. J. Larson; Beehive, L. J. Diehl; Billiard table, C. S. Schulenburg; Bit brace, W. E. Fereau; Blacking box holder, S. T. Wymen; Boiler, agricultural, H. A. Mears; Boiler for warming buildings, C. F. Hitchings; Boiler, safety valve, steam, H. W. Shepard; Boiler, wash, Calver & Mosely; Boiler plugs on ferrules, R. A. Copeland; Boot, G. C. Parker; Boot heels, braising, W. C. Butler; Boot heels, cutting leather for, M. H. Hall; Boot and shoe tip, F. W. Rataalander; Boot, heating, L. Graf; Boots, buffing, G. C. Hawkins; Bottle cover, W. Bourguignon; Box, J. S. Litch; Bridge, A. Reiling; Bridge column, J. Zellweger; Brush holder, C. L. W. Baker; Brush woods, sapping, J. Ames, Jr.; Building, fireproof, E. Vaeter; Butter worker, S. H. Bush; Button holder, M. J. Cooper; Can for pigfat, etc., J. W. Sausury; Candlestick, W. H. H. Hinds; Car coupling, J. W. Hess; Car coupling, W. B. Mitchell; Car couplings, automatic, G. H. Merriman; Cars, elevating, etc., W. T. Beckman; Car mat, J. O'Neill; Car, sleighing, J. T. & D. R. Leighton; Car starter, J. G. Thompson; Cars, orange bean for, D. Wellington; Carpet stretcher and tacker, Z. A. Ward; Carriage axle, manufacture of, Lones et al; Carriage, collars, Snow & Haseltine; Carriage wheel, H. G. Wynn; Chain links, machine for bending, C. B. Long; Chair, adjustable reclining, J. J. Hartman; Chair, adjustable reclining, G. A. Schastey; Chair foot rest, J. H. Travis (r); Chimney top, J. C. H. Brown; Curn duster, H. B. Robinson; Clamp, book, W. A. Miller; Clothes pins, making, B. B. & A. J. Ockington; Coffee roaster, W. J. Line; Copper, welding, E. Renaud; Corn, etc., preserving green, Merrill & Soule; Corn cropper, R. M. & W. H. Bowman; Corset, Loomer & Smith; Cotton worm destroyer, J. W. Johnson; Cotton worm destroyer, J. W. Johnson; Cradle, F. Chichester (r); Culinary vessel, W. A. Barlow; Cultivator, D. B. Eberly; Cultivator, J. E. Sisson; Cultivator, G. Slusser; Cultivator, A. C. Smith; Curtain fixture, W. W. Massey; Cutter, straw, T. D. Anderson; Doors, catch for sliding, A. W. Gibbs; Doors, rail for sliding, J. Collins; Dovetail marking device, G. Ashby; Drills, etc., die for forming rock, D. Minthorn; Drap light, center, C. Deaves; Engine, locomotive, etc., steam, L. Perkins; Engine, rotary, C. C. Klein; Engine, rotary, W. P. Maxson; Fan, C. C. Lusby; Faucet, wash stand, W. S. Bate; Fence, flood, G. W. Duncan; Fence post, H. S. Ross; Fences, constructing wire, J. W. Rappelye (r); Floor disintegrator, Berthel & Laberie; File bill and paper, W. H. Foye; Fire arm, trench loader, J. Duval; Fire arm, magazine, A. Assmus; Fire arm, revolving, R. White (r); Food or sauce, F. A. Frisela; Furnace, Senacher & Feret; Furnace door, D. Auld, Jr.; Furnace, hot air, G. W. Day; Furnace, hot air, J. Magee; Furnace, hot air, J. Magee; Gage, recording steam, J. B. Edson; Gase apparatus, J. C. Wilhelm; Gas, manufacturing, E. R. Hopkins; Gas report, G. A. Mcintenny; Gearring, J. A. Greenough; Generator, steam, H. M. Quackenbush; Generator, steam, J. Ryan; Generators, clearing steam, D. L. Latourette; Grain basket, H. C. Jones; Grinding machine, P. D. Cummings; Gas traverer for machine, R. J. Gatling; Hammer, drop, J. Tobin; Harness trace, R. Williams; Harvester dropper, J. S. Fowler; Hatchway, self-closing, W. P. Cherrington; Heater, feed water, G. W. Richardson; Heating air, etc., G. E. Hibbard; Hod, mason's, B. C. Monroe; Hoisting machine, J. Jones; Horses, detaching, I. L. Landis; Hubs, machine for boring, J. A. Newell; Ice, cooling air and making, T. D. Kingan; Ice creper, Johnson & Axford; Indicator, station, Newlin & Simmerman; Ingot mold, M. T. Mooney; Inhaler, medical, J. C. Parkinson; Inkstands, tool for molding, A. W. Brinkerhoff; Iron and steel, r finishing, I. M. Phelps; Iron, etc., preventing corrosion of, R. A. Fisher; Kutting machine register, D. A. Lehman; Knife, drawing, M. Brooks; Ladder, step, A. W. O'Brien; Lamp shade and drip cup, J. S. & T. E. Atterbury; Lampshade supports, W. N. Weeden;

Table listing inventions with names and dates, including Lamp wick, P. Martin; Lamp shades, J. A. Everts; Lantern, magic, L. J. Marry (r); Latch and door check, R. L. Omensetter; Lath machine, T. Brusco; Lathes, tool holder for, L. Reder; Leather perforating machine, L. D. Woodmancee; Leather metal fastening, C. Keniston; Lightning rod coupling, J. W. Fritch; Lithographic transfer, O. P. Wolff; Lock tumbler, E. W. Brettel; Mallet for driving tubes, etc., C. Stewart; Mast for vessels, hinged, J. E. Hammond; Mattress frame, wire, G. V. & W. I. Bunker; Mattress spring, D. N. Sellig; Medical compound, S. Field; Medical compound, S. Gilbert; Meter, dry gas, A. Harris; Meter for wheel vehicles, way, J. A. Robinson; Motion, converting, J. P. Taylor; Motion, converting, H. Wheeler; Motor, L. H. Dean; Muste blackboard, Brown & Carey; Musical pneumatic action, W. F. Schmoel et al.; Nail cutting machine, M. Thibault; Nail machine, cut, E. A. Kimball; Nail plate feeder, J. Poulson; Numbering machine, J. D. Smith; Orca, etc., flux tor, P. N. Mackay; Ox shoes, forming, S. Deebie; Ox shoes, making, R. Frech; Pad, shoulder, L. Kyser; Pans, machine for forming, E. Kuessner; Paper feeding machine, C. M. Wielings; Paper pulp, Brown & Denton; Petroleum, distilling, A. W. Wilkinson; Photographic background, J. Buchtel; Photographic background, A. B. Costello; Photographs, guide for cutting, L. T. Young; Piles, sinking broken, E. C. Boobar; Placeards, etc., exhibiting, Morrell & Moore; Planning sheet metal edges, G. B. Rundlett; Planter, cotton seed, Z. Carter; Planter, hand corn, Tracy & Platt; Planters, dropper for seed, H. H. Koeller; Plow, C. M. Clark; Portfolio, L. F. Edmund; Potassa, bitartrate of, L. Adler; Press, cotton and bay, E. S. Collins; Printer's rules, preparing, J. B. Bancroft; Printer's rule stick and quoin, F. Keehn; Printing press, copper plate, T. S. Bates; Propellers, operating screw, F. H. Tobias; Pump or blower, rotary, A. Breat; Pumps, condenser for steam, D. Stoodart; Puncturing metal, hand, S. F. Leach; Puncturing and shearing machine, C. Swanson; Railway rail joint stiffener, H. Harding; Railway switch, E. Mercier; Railway switch, T. Newman; Railways, removing snow from, J. A. Bryant; Range, L. Meyer; Rein holder, L. Fawcett; Rice, machine for hulling, H. B. Stevens; Roadway, removing snow from, G. Hart; Roofs, attaching slate to, D. Ryan; Roofing, cement for slate, H. Wheeler; Ruler, F. A. Combes; Sled and turing iron, L. Mooney; Saddle tree, O. V. Flora; Saw gunner, L. Gibbs; Saw handle, W. Clemson; Saw mill, head block for, G. Zschech; Screw driver, S. R. Kuecland; Screw plate, T. L. Van Dorn; Seythe holder for rag cutters, E. D. Aldrich; Secretary, wardrobe, and bedstead, A. Weeks; Separator, seed, F. W. Mass; Sewing machine, J. A. House; Sewing machine, I. Maunting; Sewing machine, E. F. Richardson; Sewing machine gage, C. C. Roberts, (r); Sewing machine table, J. Benson; Sewing machine tucker, J. H. Bean; Snaiting, bearing for, P. J. Hardy; Shutter worker, T. and C. T. Rowe; Skate fastening, G. W. Burlow; Soda fountain, charging, J. C. Kennedy; Sower, seed, B. Morse; Spark arrester, J. W. Seigh; Spark arrester, Thornton & Buckland, (r); Spinning mule, T. Houlding; Spring, F. K. John, (r); Steam trap, R. J. Barr; Steel for alcoholic spirits, C. E. Werner; Stock and die, J. W. Hardie; Stove, lamp, E. Savoral; Stove pipe, chimney, N. Linden; Stove, portable, S. J. Dibble; Table, ironing, C. Bloom, Jr.; Telegraph transmitter, D. Hermann; Thill coupling, G. M. Dunlap; Thill coupling, H. Manwaring; Tobacco sipping machine, Tunnell et al.; Tonge, culinary, A. Greenleaf; Trap, fly, T. Lane; Tree protector, J. Neff; Urn, coffee, C. Hitchcock; Vault cover, W. Dale, (r); Wagon standard, C. W. Salsdee; Washing machine, Tull & Weston; Watch chain, Front et & Bellemere; Water closet, J. F. Neilson; Way, elevated, H. W. Farley; Weather strip, O. W. Booth; Whalebone or rattan, splitting, J. Taggart; Wheel, buffing, E. & W. Dixon; Wheel, J. A. Wheeler; Window blind slot adjuster, Beach & Berry; Window screen, W. G. Anderson; Wrench, S. J. Wright;

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: 37,027.—CULTIVATOR.—C. M. Hall, D. E. Hall. March 11. 27,641.—HARVESTER.—F. T. Lomont et al. March 11. 27,743.—BOILER FEED.—T. Snowdon. March 18. 28, 04.—CAR AXLE.—J. Montgomery. March 8. 28,263.—BAYONET SCABBARD.—E. Gaylord. April 29.

EXTENSIONS GRANTED.

26,475.—BREECH LOADING FIRE ARM.—B. Burton. 26,494.—PLATFORM SCALE.—T. Fairbanks. 26,483.—PIPE MOLDING.—J. Firth, J. Ingham. 26,487.—SCREW TAPS.—W. and Robert Foster. 26,506.—WATER TRAP.—J. A. Lowe.

DISCLAIMER.

27,475.—BREECH LOADING FIRE ARM.—B. Burton.

DESIGNS PATENTED.

7,049.—LAMP PEDESTAL.—N. L. Bradley, W. Meriden, Ct. 7,050.—CARPETS.—J. Fisher, Enfield, Conn. 7,051 to 7,059.—CARPETS.—O. Heingke, New York city. 7,060 & 7,061.—CARPETS.—H. Horan, East Orange, N. J. 7,062.—SHOW CASES.—J. Irons, Philadelphia, Pa. 7,063.—SODA WATER APPARATUS.—G. F. Meacham, New-ton, Mass. 7,064.—FUR TRIMMING.—A. Molnar, New York city. 7,065 & 7,066.—CARPETS.—J. H. Smith, Enfield, Conn. 7,067.—TABLE CASTER HANDLES.—H. C. Wilcox, West Meriden, Conn.

TRADE MARKS REGISTERED.

1,574.—COMPOSITION GOODS.—Greenelle Manu. Co., New York city. 1,575.—BURNING FLUIDS, ETC.—Netterfield et al. Burr Oak, Mich. 1,576.—WHISKY.—D. Porter, San Francisco, Cal. 1,577.—PERFUMES, ETC.—G. J. Wenck, New York city.

SCHEDULE OF PATENT FEES.

Table with 2 columns: Fee description and Amount. 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.

[Specially reported for the Scientific American.]

CANADIAN PATENTS.

LIST OF PATENTS GRANTED IN CANADA DECEMBER 23 TO DECEMBER 29, 1873.

Table listing Canadian patents with numbers and descriptions, including 2,950.—W. A. Weldon and J. S. Dennis, Chicago, Ill., U. S. Improvements on curtain fixtures, called "The Weldon Curtain Fixture." Dec. 23, 1873. 2,951.—W. A. Lytle, Grove, Hammersmith, Middlesex county, Eng. Improved process for preserving timber, called "Lytle's Process for Preserving Timber." Dec. 23, 1873. 2,952.—I. S. Russell, New Market, Md., U. S., and H. R. Russell, Woodbury, N. J., U. S. Improvements in earth closets, called "Russell's Earth Closet." Dec. 29, 1873. 2,953.—J. G. Tourangeau, Quebec, P. Q. Machine pour faire la pate, called "Le Petrin Tourangeau." "A Dough Machine." Dec. 29, 1873. 2,954.—I. Kinney, London, Middlesex county, Ontario. Machine for designing and cutting scrolls and curved lines more accurately and expeditiously than has heretofore been done, called "Kinney's Instrument for Designing and Cutting Scrolls and Curved Lines." Dec. 29, 1873. 2,955.—P. English, Hamilton, Ontario. Improvements in rotary steam engines, called "English's Improved Rotary Steam Engine." Dec. 29, 1873. 2,956.—C. W. Jenks, Somerville, Mass., U. S. Improvement on skirts, called "The Sanspareil Skirt." Dec. 29, 1873. 2,957.—C. P. Leavitt, New York city, U. S. Improvement on hot air engines, called "Leavitt's Hot Air Engine." Dec. 29, 1873. 2,958.—J. F. Stairs, Halifax, Nova Scotia. Improvements in the art or process of preparing oakum, called "Stairs' Improved Oakum." Dec. 29, 1873. 2,959.—J. F. Stairs, Halifax, Nova Scotia. Improvements in tarring tow and oakum, called "Stairs' Improved Oakum Machine." Dec. 29, 1873. 2,960.—S. Smyth, Bridgewater, Susquehanna county, Pa., U. S. Improvements in grates for stoves and furnaces, called "Smyth's Stove and Furnace Grate." Dec. 29, 1873. 2,961.—F. J. Bowles, London, Middlesex, Ontario, assignee of J. H. Thorp, Chicago, Ill. Machine for the detection of burglars, being a portable burglar alarm, called "Bowles' Improved Portable Burglar Alarm." Dec. 29, 1873. 2,962.—J. Lanham, London, Eng. Improvements in the manufacture of boots and shoes and apparatus therefor, called "Lanham's Boots and Shoes, Heel Press and Last." Dec. 29, 1873. 2,963.—J. B. Pugh, Champaign, Champaign county, Ill., U. S. Improvements on hay presses, called "Pugh's Champion Double Press." Dec. 29, 1873. 2,964.—A. D. Crosby, Cuba, Alleghany, Pa., U. S. Improvements in buckets for chain pumps, called "Crosby's Improved Bucket for Chain Pumps." Dec. 29, 1873. 2,965.—B. Morton and J. L. Smith, Toronto, Ontario Improvements on snow plows, called "Morton and Smith's Improved Snow Plow." Dec. 29, 1873. 2,966.—T. R. Way, Springfield, Clark county, O., U. S. Improvements on millstone picks, called "Way's Eccentric Mill Pick." Dec. 29, 1873.

HOW TO OBTAIN Patents and Caveats IN CANADA.

PATENTS 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.

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