

[OFFICIAL.]
Index of Inventions
 FOR WHICH
Letters Patent of the United States
 WERE GRANTED IN THE WEEK ENDING
May 12, 1874,
 AND EACH BEARING THAT DATE.
 [Those marked (r) are reissued patents.]

Alarm, burglar, W. H. Reiff.....	150,712
Alarm, door, A. Neving.....	150,776
Alarm, fire, P. A. Blake.....	150,744
Auger, earth, W. R. Andrews.....	150,670
Awning, H. Sykes.....	150,910
Baby jumper, R. W. Caldwell.....	150,825
Bale tie, J. W. Parish.....	150,885
Beads to fabrics, attaching, G. W. Berrey.....	150,674
Bed lounge, folding, G. C. Paine.....	150,706
Bedstead, sofa, J. Ott.....	150,705
Blinder, temporary, C. W. Baird.....	150,740
Binder, temporary, O. R. Hyde.....	150,761
Blower, rotary, Prosser & Ray.....	150,788
Boiler, wash, J. W. Erwin.....	150,851
Boilers, calking, J. W. Conner.....	150,831
Boot and shoe insole, C. Grant, Jr.....	150,686
Boot stitch machine, C. S. Dunbrack.....	150,842
Box, sheet metal, G. Zuckschwerdt.....	150,949
Brace, spring, S. T. Bruce.....	150,747
Bracelet, E. E. Barrows.....	150,741
Brake shoe, H. C. Deering.....	150,677
Brick, building and paving, B. Adler.....	150,666
Brick machine, C. H. Williams.....	150,944
Bride bit, A. P. Mason.....	150,696
Broom machine, Aderson & Houghton.....	150,669
Brush, automatic fly, J. T. Bender.....	150,673
Buckle, G. L. Robinson.....	150,791
Buggy top, J. F. Fowler.....	150,753
Building material, J. Delon.....	150,888
Bullion, refining, F. H. Bousfield.....	150,675
Bungs, machine for making, A. Goetzinger.....	150,684
Button fastening, F. J. Mix.....	150,878
Cage, bird, Osborn & Drayton.....	150,884
Can, oil, J. H. Brown.....	150,819
Can, oil, J. H. Brown.....	150,820
Capstan, J. Rees.....	150,790
Car axle box, C. H. Shattuck.....	150,720
Car coupling, W. H. Hopper.....	150,759
Car coupling, King & Swan.....	150,693
Car coupling, H. E. Marchand.....	150,768
Car coupling, W. D. Rhinehart.....	150,715
Car coupling, R. B. Tait.....	150,728
Car doors, operating, J. Stephenson.....	150,905
Car pedestals, bracing, J. Stephenson.....	150,908
Car spring, R. Vose.....	150,824
Car starter, J. J. Keller.....	150,884
Car, street, J. Stephenson.....	150,906
Car, street, J. Stephenson.....	150,907
Cars, recording speed of, Speed & Poage.....	150,602
Carburetor, J. M. Cayce.....	150,827
Card cylinders, cleaning, H. Spaulding.....	150,725
Carding machine cylinder, F. Tully.....	150,913
Carding feed guide, M. A. Furbush.....	150,856
Carpet stretcher, M. R. O'Neill.....	150,780
Carriage clip, M. Seward.....	150,897
Carriage door, F. H. Jury.....	150,763
Caster and fly fan, table, W. R. Fowler.....	150,855
Caster, furniture, H. D. Olds.....	150,703
Casting mold boards, chill for, J. Oliver.....	150,882
Cattle poke, W. L. Battle.....	150,743
Centrifugal machine, S. S. Hepworth.....	150,688
Chains, machine for making, E. Shaw.....	150,898
Charcoal, treating animal, Buchanan & Vickess.....	150,821
Cburn cover, D. M. Pease.....	150,782
Churn, rotary, Wattles & Cable.....	150,784
Clamp, silver & fawcett.....	150,900
Clamp box, D. Peters.....	150,709
Clothes pins, making, A. R. Stewart.....	150,909
Clothes pounder, P. W. Hart.....	150,859
Clothes wringer, J. W. Wheeler.....	150,917
Coals, coking fossil, W. J. Lynd.....	150,872
Coffin, J. T. Earnest.....	150,843
Coffin handle, W. M. Smith.....	150,901
Cog wheels, cleaning, T. Coldwell.....	150,829
Condenser, atmospheric, J. A. H. Ellis.....	150,850
Cooking utensil, I. Dunnam.....	150,752
Cooler and filter, water, V. Klouassa.....	150,866
Cooler for beer, etc., J. W. Collier.....	150,830
Cooling and ventilating, S. Whitman.....	150,940
Cultivator, S. Severy.....	150,719
Cultivator, teeth, blanks for, Pedder and Abel.....	150,708
Cut-off, rain water, J. Huth.....	150,691
Desk, folding, D. H. Pierson.....	150,784
Diamonds in drills, inserting, J. D. Hensbands, Jr.....	150,862
Dish washer, J. M. McKesson.....	150,772
Disinfecting and perfuming, H. G. Dayton.....	150,885
Door check, J. R. Baxter.....	150,812
Door check, W. Butrows.....	150,823
Drill chuck, G. D. Belcher.....	150,672
Drill, ratchet, W. Campbell.....	150,846
Drilling machine, metal, M. A. Furbush.....	150,857
Drilling machine, metal, A. B. Prouty.....	150,890
Drilling machine, rock, C. S. Pattison.....	150,886
Drop light gaselier, center, C. Deave.....	150,887
Drum, J. Belknap.....	150,814
Eaves troughs, making, A. Whitcomb.....	150,948
Elevator, G. C. Timpe (r).....	5,870
Engine, reversing valve for steam, J. Beehler.....	150,671
Excavator, M. E. Lasher.....	150,767
Fats, treating animal, H. Mège (r).....	5,868
Fences, wire stretcher for, J. F. Glidden.....	150,683
Fire arm elastic butt, W. Scott.....	150,717
Fire brick, compound for, A. F. Foster.....	150,834
Fire extinguisher, D. J. Tapley.....	150,729
Fire extinguisher, C. H. Thompson.....	150,730
Fishing reel, C. F. Orvis.....	150,883
Flour, self-raising, Eastwick & Logo.....	150,844
Forge, J. Nixon.....	150,881
Furnace, coke and gas, H. Zahn.....	150,803
Furnace, hot air and water, C. Comatos.....	150,750
Furnace, hot air, W. Twitchell (r).....	5,871
Furnace, smoke consuming, J. Thompson.....	150,911
Gage, carpenter's, J. A. Traut.....	150,732
Game apparatus, E. F. Lane.....	150,858
Game board, T. J. Whitcomb.....	150,735
Garter, H. A. House.....	150,690
Gas from petroleum, making, Wren (r).....	5,874
Gas from petroleum, making, Wren (r).....	5,873
Gas furnace, G. H. Baldwin.....	150,811
Grain, etc., transferring, J. J. Safely.....	150,894
Grate, fire place, M. Fitzpatrick.....	150,680
Grating, wrought iron, D. D. Boyce.....	150,745
Harness saddle tree, E. M. Klone.....	150,865
Harvester, O. E. W. Allen.....	150,930
Harvester, J. Werner, Jr.....	150,916
Harvester, A. Willard.....	150,923
Harvester rake, W. A. Wood.....	150,927

Hat-ironing machine, Giroux and Drovon.....	150,757
Hats, manufacture of, J. W. Valentine.....	150,783
Hatchet, G. Norton.....	150,778
Hatchet, J. A. Wisner.....	150,926
Heaters, etc., valve for steam, Shock & Thurston.....	150,899
Hoof trimmer, F. R. & W. O. Sutton.....	150,900
Hooping palls and tubs, E. Whitney.....	150,736
Horse power, J. M. Powell.....	150,899
Horsehoe, sectional, R. Austin.....	150,810
Hose coupling, J. W. Kennedy.....	150,764
Inking apparatus, G. E. Jones.....	150,762
Insole, J. W. Lockwood.....	150,870
Jewelry, artificial coral for, D. D. Smith.....	150,722
Jewelry, manufacture of, C. A. Gamwell.....	150,754
Knife sharpening machine, W. H. Williams.....	150,867
Ladder, firemen's, P. Porta.....	150,888
Ladder, step, S. S. Thompson.....	150,912
Lamp, A. G. Busby.....	150,824
Lamp pendant, L. Hull.....	150,861
Lamp, suspension, R. Marsh.....	150,770
Lard, etc., package, N. K. Fairbank.....	150,852
Lathe, C. W. Wilder.....	150,837
Leather, finishing, W. Ellard.....	150,849
Leather, rounding, H. F. Osborne.....	150,704
Lenses, grinding, F. R. & W. O. Sutton.....	150,799
Lock, permutation, T. B. Worrell.....	150,738
Lock, seal, F. W. Brooks.....	150,817
Locomotive wheel registering slip, J. W. Boyle.....	150,746
Loom shedding mechanism, J. Williamson.....	150,925
Loom shuttle, N. A. Williams.....	150,806
Lubricant, E. Zerby.....	150,789
Malt for cattle food, etc., A. Marshall.....	150,769
Mangle, steak, Robbins & Turner.....	150,893
Match safe, gas bracket, G. W. Righter.....	150,892
Measure, tailor's, Falk & Finkenstein.....	150,853
Metals, etc., polishing, H. Burrill.....	150,749
Mill, disintegrating, J. M. Hendricks.....	150,689
Mill, grinding, E. Totman.....	150,781
Mill spindles, bush for, E. Deeds.....	150,751
Mills, feeder for grinding, Phillips et al.....	150,786
Mop head, J. Simpson.....	150,797
Mowing machine, F. H. Bryan.....	150,748
Mowing machine, H. M. Burdick.....	150,822
Mowing machine, W. A. Wood.....	150,928
Nut lock, L. and J. Sykes.....	150,801
Nuts, threading metallic, L. W. Stockwell.....	150,726
Oil from cans, drawing, J. G. Evenden (r).....	5,864
Ores, reducing, J. F. Sanders.....	150,794
Ores, amalgamating, J. F. Sanders.....	150,798
Ores, machine for stamping, W. Ball (r).....	5,825
Organ case, reed, J. R. Lomas.....	150,871
Paddle wheel, feathering, E. Spencer.....	150,903
Paper cutting machine, H. H. Thorp.....	150,802
Paper, making parchment, E. Metzger.....	150,698
Paper pulp rollers, making, J. O'Neill.....	150,779
Photographic screen, C. E. Myers.....	150,701
Pianoforte stringing device, H. H. Morse.....	150,700
Picture receptacle, saw handle, W. Millspeugh.....	150,699
Pipe and nozzle, hose, Barry & Prentice.....	150,742
Pitman connection, J. Timms.....	150,803
Planter, corn, Brewster & Curtis.....	150,816
Planter, corn, Starret & Keal.....	150,904
Planter, cultivator, and chopper, J. L. McCaleb.....	150,771
Pliers, cutting, V. A. Pugsley.....	150,789
Plow, gang, H. and J. Oldendorph.....	150,702
Plow, gang, J. Stone.....	150,737
Press, cotton, B. W. Brown.....	150,828
Printing press, T. J. Mayall.....	150,874
Propelling vessels, H. B. E. Von Eisner.....	150,915
Pruning implement, L. B. Snow.....	150,724
Pulley, friction, E. G. Parkhurst.....	150,707
Pump, L. Fairbanks.....	150,679
Pump, A. J. Tyler.....	150,914
Pumps, construction of, R. T. Deakin.....	150,836
Purifier, middlings, A. Herr.....	150,758
Purifier, middlings, O. M. Morse.....	150,879
Radiator, steam, C. S. Smith.....	150,798
Rein holder and whip socket, O. Matson.....	150,697
Roll, three high, H. Schmitz.....	150,895
Roller, automatic shade, F. C. D. McKay.....	150,877
Salticylic and other acids, H. Kolbe.....	150,867
Saw-filing machine, gin, L. M. Asbill.....	150,809
Saw handle, hand, C. Eisenhardt.....	150,678
Saw machine, circular, J. Smith.....	150,728
Saw mill, circular, G. L. McCahan.....	150,875
Saw mills, head block for, G. W. Disman.....	150,676
Sawing machine, W. S. Gerrish.....	150,756
Scaffold, stacking, S. Scovill.....	150,795
Scale boards, treating, A. Müller.....	150,880
Scales, track, J. Weeks.....	150,752
Screw bushes, nicking, W. Alken.....	150,667
Screw-cutting machine, Hall & Millward.....	150,687
Scuttle, coal, S. Whitnum.....	150,921
Sewing machine clamp, J. G. Powell.....	150,787
Sewing machine presser foot, Allerton et al.....	150,668
Sewing machine table, M. W. Murphy.....	150,775
Sheet metal spinning, F. J. Seymour.....	150,796
Shingle machine, J. L. Day.....	150,834
Shoe, F. Weed (r).....	5,872
Shoe shank, metallic, J. Hyslop, Jr.....	150,760
Sifter, ash, F. E. Rice.....	150,713
Skate, B. F. See.....	150,896
Skirt elevator, E. E. Norton.....	150,777
Skirt protector, R. H. Gardner.....	150,735
Sled reach coupling, Denison et al.....	150,889
Soda water fountain, F. W. Welsebrock.....	150,922
Spice box holder, C. E. Seavey.....	150,718
Stair rod bracket, J. H. White.....	150,919
Stamp, hand, J. Goldsborough.....	150,898
Stone, artificial, D. R. Prindle.....	150,710
Stove, cooking, G. N. Palmer.....	150,781
Stove, magazine, D. Smith.....	150,721
Table, game, J. P. Hyde.....	150,662
Table, ironing, E. McCoy.....	150,676
Tap and faucet, J. G. Schiffer.....	150,716
Telegraph, chemical or automatic, T. A. Edison.....	150,848
Telegraph relay, T. A. Edison.....	150,846
Telegraph receiving instrument, T. A. Edison.....	150,847
Temple teeth, forming, N. Chapman.....	150,823
Thill coupling, Fountain & Holmes.....	150,681
Thill coupling, T. S. Smith (r).....	5,869
Threshing machine, W. M. Leyde.....	150,694
Tinned plates, uniting, G. H. Perkins.....	150,887
Toy, C. Rogge.....	150,792
Toy, spinning, G. R. Lillibridge.....	150,869
Trap, animal, A. M. Gass.....	150,682
Trap, animal, O. Hukill.....	150,860
Treadle, Duff & Swarbrick.....	150,840
Vehicle running gear, P. B. Cunningham.....	150,838
Vehicle standard, J. J. Martin.....	150,696
Vehicle wheel, J. H. Gould.....	150,685
Vehicle wheel, M. Mickelson.....	150,726
Vehicle wheel, H. H. Richards.....	150,891
Ventilator, J. Purington.....	150,711
Vessel for retaining heat, etc., S. Crane.....	150,832
Wagon end gate, D. E. Beardsley.....	150,813
Watch escapement, G. H. Knapp.....	150,766
Water closets, W. S. Carr (r).....	5,866
Weather strip, S. A. Piper.....	150,786
Wheelwright machine, W. M. Perry.....	150,788
Whip, N. E. Bell.....	150,818

Windlasses, rope drum for, J. Knowlson, Jr..... 150,765
 Windmill, W. H. Rice..... 150,714
 Window screen, D. C. Kellum..... 150,863
 Wire in coils, plating, C. H. Morgan..... 150,774
 Wood, preserving, F. Dufourc..... 150,841
 Yeast powder, Eastwick & Logo..... 150,845

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:

29,285.—FILE CUTTING MACHINE.—E. Bernot. July 15.
 29,562.—BOOTS AND SHOES.—L. R. Blake. July 29.
 29,561.—MAKING BOOTS, ETC.—L. R. Blake. July 29.
 29,576.—PISTON.—H. D. Dunbar. July 29.
 29,579.—ENGINE GOVERNOR.—R. W. Gardner. July 29.
 29,633.—CUTTER HEAD.—H. D. Stover. July 29.
 29,648.—SEWING MACHINE NEEDLE.—F. H. Drake. July 29.
 29,694.—CLOTHES DRYER.—D. K. Hickok. Aug. 5.
 29,707.—CUTTING TOOL.—T. W. McDill. Aug. 5.
 30,088.—WINDMILL.—J. K. Babcock. Sept. 2.
 30,881.—LAMP.—J. E. Ambrose. Sept. 30.

EXTENSION GRANTED.
 28,814.—WATER WHEEL.—A. M. Swain.

DISCLAIMER.
 28,814.—WATER WHEEL.—A. M. Swain.

DESIGNS PATENTED.
 7,421.—STEERING WHEEL.—D. N. B. Coffin, Jr., Newton, Mass.
 7,422 to 7,424.—CARPETS.—J. Fisher, Philadelphia, Pa.
 7,425.—PIN OR BADGE.—R. B. Freeman, Blossburg, Pa.
 7,426.—HARNESSES ROSETTES.—W. Greacen, Newark, N. J.
 7,427 to 7,430.—VASES.—J. W. Flske, New York city.
 7,431.—AUTOMATIC TOY.—E. R. Ives, Bridgeport, Conn.
 7,432.—RUCHES.—A. A. Rockwell, New York city.
 7,433.—PILL PACKING CASE.—C. T. White, New York city.
 7,434.—VASE.—J. W. Flske, New York city.

TRADE MARKS REGISTERED.
 1,774.—ANGELUS CLOCKS.—Angelus Clock Co., Phila., Pa.
 1,775 and 1,776.—MEDICINES.—Dr. J. Ball & Co., N. Y. city.
 1,777.—FRUIT, ETC., PREPARED.—L. Contencin, N. Y. city.
 1,778.—SHIRTINGS, ETC.—Jackson Co., Nashua, N. H.
 1,779.—MINERAL WATER.—E. W. Johnson, Boston, Mass.
 1,780.—GINGHAMS.—Lancaster Mills, Clinton, Mass.
 1,781.—MEDICINE.—R. Pengelly et al., Saugatuck, Mich.
 1,782.—BUTTONS.—Porter Bros. & Co., New York city.
 1,783.—GINGER ALE.—S. L. Simpson, New York city.
 1,784.—GIN.—S. L. Simpson, New York city.
 1,785.—PICKLES, ETC.—Skilton & Co., Somerville, Mass.
 1,786.—CANDLES.—W. H. Woods & Co., Cincinnati, O.
 1,787.—YEAST POWDERS.—A. G. Dooley, New York city.
 1,788.—FLOUR.—J. B. Ficklen & Bro., Fredericksburgh, Va.
 1,789.—TOOTH PASTE.—Forster et al., Philadelphia, Pa.
 1,790.—ROOF.—J. McDerby et al., Manchester, N. H.
 1,791.—EXTRACTS.—McMillan et al., San Francisco, Cal.
 1,792.—TELEGRAPH.—R. W. Pope, Elizabeth, N. J.
 1,793 and 1,794.—LARD.—W. J. Wilcox & Co., New York 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.
 MAY 12 TO MAY 19, 1874.
 3,431.—William Green, 92 Croft street, Hyde, Cheshire county, Eng. Improvements in automatic couplings for railway and other carriages, called "Green's Automatic Couplings for Railway and other Carriages." May 12, 1874.
 3,432.—G. A. Danet, Paris, France, and X. C. E. Feuillant, G. A. Danet, Paris, France, and X. C. E. Feuillant, in the process of preserving animal and vegetable substances, called "Danet & Feuillant's Improved Process of Preserving Animal and Vegetable Substances." May 12, 1874.
 3,433.—J. P. Woodbury, Boston, Suffolk county, Mass., U. S. Improvements on planing machines, called Woodbury's Planing Machine." May 13, 1874.
 3,434.—G. Selfridge, St. John, N. B. Improvements on harness for horses, called "Selfridge's Breeching Round and Chape." May 13, 1874.
 3,435.—G. Forsyth, Seaforth, Ont. Improvements in the manufacture of portable wire fences, called "Forsyth's Improved Portable Wire Fence." May 13, 1874.
 3,436.—D. Allard, St. Albans, Franklin county, Vt., U. S. Improvements on smoke stacks of railway locomotive engines, called "Allard's Smoke Stack." May 13, 1874.
 3,437.—J. H. and B. Ziegler, Berlin, Waterloo county, Ont. Improvement in the construction of vehicles, called "The Champion Road Wagon." May 13, 1874.
 3,438.—D. Bradford, Hamilton, Wentworth county, Ont. Improvements in car couplings, called "Bradford's Improved Automatic Car Coupling." May 13, 1874.
 3,439.—S. Wright, Hillsborough, Jefferson county, Miss. U. S. Improvement on self-adjusting step ladders, called "Wright's Self Adjusting Step Ladder." May 13, 1874.
 3,440.—L. Pond, Foxborough, Norfolk county, Mass., U. S. Improvements on hose coupling spanners, called "Pond's Hose Coupling Spanner." May 13, 1874.
 3,441.—William J. Shilling, Brooklyn, Kings county, N. Y., U. S. Improvements in locks, called "Shilling's Improved Circular Lock." May 13, 1874.
 3,442.—C. W. Woodford, Montreal, P. Q. Improvements on the manufacture of horse shoe nails, called "Champion." May 13, 1874.
 3,443.—G. Stacy, Holborn Circus, London, Eng. Improvements in revolving tools applicable to stone dressing, hammering metals, and crushing mineral and vegetable substances, called "Stacy's Revolving Hammer." May 13, 1874.
 3,444.—P. M. Thompson, Ascot Township, P. Q., assignee of A. M. Putnam, Peterborough, N. H., U. S. Improvements on pumps, called "Thompson's Improved Pump." May 13, 1874.
 3,445.—F. A. Riley, Boston, Suffolk county, Mass., U. S. Apparatus for supplying a water closet with water, called "The Riley Water Closet Hydraulion." May 13, 1874.
 3,446.—S. W. France, Hamilton, Wentworth county, Ont. Improvement in feed water heaters for steam boilers, called "Combination Feed Water Heater." May 13, 1874.

Advertisements.
 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. Advertisements must be received at publication office as early as Friday morning to appear in next issue.

SHORT HAND. 150 words per minute in 4 weeks. Send stamp for Circular. J. A. GRAY, P. O. Box 4,847, N. Y.

\$70 A WEEK TO AGENTS.—Suff. Four new Pat. ent. J. D. NESBITT, Foxboro', Mass.

IMPORTANT FOR ALL LARGE CORPORATIONS AND MANUFACTURING CONCERNS.—Buierk's Watchman's Time Detector, capable of controlling with the most accuracy, the motion of a watchman or patrolman, as the same reaches different stations of his beat. Send for a Circular. J. E. BUERK, P. O. Box 1,087, Boston, Mass. Parties using or selling these instruments without authority from me will be dealt with according to law.

\$72 EACH WEEK. Agents wanted; particulars free. J. WORTH & Co., St. Louis, Mo.

WESLEY PERKINS. H. WESLEY PERKINS, DESIGNER AND ENGRAVER ON WOOD, 34 Park Row, New York. ILLUSTRATIONS OF EVERYTHING. SATISFACTION GUARANTEED. Post Paid 25c WENDELL'S DOOR STOP, 233 N. 10th St., Philadelphia.

ENCAUSTIC TILES for floors. Send for pattern sheets. MILLER & COATES, 279 Pearl St., New York.

OVER 7,000 IN USE, BLAKE'S STEAM PUMP Send for illustrated catalogue, 73 & 81 Liberty St., N. Y.

L. & J. W. FEUCHTWANGER, DRUGS, CHEMICALS, OILS,