

[OFFICIAL]

Index of Inventions

For which Letters Patent of the United States were granted

FOR THE WEEK ENDING JULY 16, 1872, AND EACH

BEARING THAT DATE.

(SECOND ISSUE.)

Acids, preparing wooden vessels for holding, W. Archdeacon..... 129,304
Alarm, burglar, I. and A. Herzberg..... 129,344
Apple corer and cutter, J. M. Meschutt..... 129,289
Auger, earth boring, W. W. Jibz..... 129,288
Axle skeins, truss brace attachment for, O. Vanorman..... 129,258
Barrel header, L. S. Thompson..... 129,375
Basket, fruit, H. Carpenter, (reissue)..... 4,982
Bed bottom spring, O. F. A. Faulkner..... 128,218
Boats, propelling mechanism for, P. Ripplingham..... 129,366
Boats, machinery for propelling canal, D. W. Horton..... 129,228
Boiler, vertical tubular steam, H. Whitaker..... 129,351
Bolt and rivet cutter, C. B. Shaw..... 129,370
Boots and shoes, heel for, J. R. Ryerson..... 129,369
Brick machine, Heath and Gardner..... 129,225
Bridge, W. E. Thomas..... 129,374
Bridle, E. Ward, (reissue)..... 4,988
Broiler, J. T. Page..... 129,362
Bronzing columns, pillars, monuments, etc., L. Brandeis..... 129,207
Brush, J. A. Bell..... 129,205
Buckle, S. G. Sturges..... 129,257
Button hole cutter, P. Baner..... 129,309
Calculating machine, G. B. Grant..... 129,335
Caliper for taper surfaces, E. C. C. Kellogg..... 129,349
Can, preserving, A. R. Davis..... 129,214
Canejuice with sulphurous acids, bleaching, B. R. Hawley..... 129,341
Car coupling, F. A. Illingworth, (reissue)..... 4,983
Car coupling, N. Swigart..... 129,300
Car roof, N. C. Day..... 129,215
Cars, coupling link for railroad, G. Rogers..... 129,368
Caster, sewing machine, S. McCafferty..... 129,354
Castings, metal for, G. Whitney..... 129,261
Centrifugal machine, J. Cottle..... 129,232
Chalk line holder, N. Robbins..... 129,250
Cloth cutting machine, Koch and Brass..... 129,285
Cloth cutting machine, Fenno and Howe..... 129,327
Clothes dryer, E. B. Winship..... 129,385
Coffee cleaning machine, J. M. Moore..... 129,259
Coffee washing machine, J. Guardiola..... 129,278
Columns from corrosion, art of protecting metallic, J. H. Linville..... 129,341
Compound of gelatin, tannin, and cellulose, A. K. Eaton..... 129,217
Concrete, apparatus for feeding and mixing gravel, etc., A. D. Foote..... 129,330
Copying press, D. G. Copplin..... 129,321
Cord clamp for windows, S. J. Russell..... 129,367
Cork, machine for cutting, A. F. Allen..... 129,304
Corset, M. Adler..... 129,264
Crane, G. Hunziker..... 129,282
Culinary vessel, G. L. Page..... 129,293
Curl comb, D. E. Hayward..... 129,224
Drawer, furniture, J. W. Warth..... 129,377
Egg carrier, A. H. Bryant..... 129,313
Elevator, A. G. Hawkes..... 129,339
Elevator and conveyer, W. F. Shanks..... 129,298
Engl. e. direct acting steam, W. D. Hooker..... 129,245
Engine, steam pumping, E. D. Leavitt, Jr..... 129,240
Engine, air and gas, J. F. Haskins..... 129,337
Engines, slide valve for, J. H. Connell..... 129,270
Engines, reversing device for steam, S. E. Stokes, Jr..... 129,372
Faucet, O. Zwietusch..... 129,263
Feather renovator, L. Dimick..... 129,325
Fence, E. Allen..... 129,203
Fire arm, breech loading, H. Brugmann..... 129,312
Fire arm, revolving, J. Gordon..... 129,334
Fire escape, J. J. Hartman..... 129,336
Fork, horse hay, J. Jones..... 129,237
Fruit and vegetable grater, E. B. Georgia..... 129,232
Furnace heated by gas, puddling, J. G. Blunt..... 129,268
Gas retort, J. Green..... 129,276
Gas jets, device for igniting, Parke and Stowe..... 129,363
Gilding, process of coloring tin, zinc, etc., so as to resemble, J. Kintz..... 129,284
Glassware, mold for molding, D. Ashworth..... 129,306
Governor, steam, A. Matson..... 129,287
Grain scourer and separator, C. B. Horton..... 129,346
Grater, coconut, W. H. McCall..... 129,288
Hair restorative, P. Bearsch..... 129,310
Harness mounting, S. S. Sargeant..... 129,254
Harvesters, cutting apparatus for, H. Mewes..... 129,357
Hats, manufacture of soft, B. McNamee..... 129,356
Hay knife, Parsons and Finney..... 129,247
Heating sand, gravel, etc., process and apparatus for, A. D. Foote..... 129,329
Heel stiffener, J. W. Hatch..... 129,338
Herbs for use in cooking, etc., preparation of, J. Cullin..... 129,323
Hinge, E. A. Bushnell..... 129,209
Hold back, J. G. Rogers..... 129,253
Horses running away, apparatus for preventing, Moore and Blair..... 129,358
Ice cream freezer, J. Dooling..... 129,326
Iron and steel, process for the manufacture of, J. W. Middleton..... 129,243
Jar, fruit, C. G. and W. L. Imlay..... 129,235
Journal box, anti-friction, R. W. Smith..... 129,256
Jug top, H. Wright..... 129,303
Lamp car, W. Westlake..... 129,259
Lamp, street, B. Giroux..... 129,221
Lamp heater and nursery cup, Fox and Reinhard..... 129,275
Lantern, wax, J. Headford..... 129,280
Latch, gate, J. P. Curry..... 129,324
Laster, shank, D. Witt..... 129,301
Leather scouring machine, A. W. Reed..... 129,251
Leg, artificial, W. W. Hawkins..... 129,340
Lock, alarm, A. B. Crane..... 129,213
Locomotive, W. S. Hudson..... 129,229, 129,230, 129,231, 129,232, 129,233
Loom, W. Day..... 129,216
Looms, web stop mechanism for, Comey and Turner..... 129,212
Lozenge machine, E. Greenfield..... 129,277
Lubricator for steam engines, M. Morton..... 129,360
Medical compound, A. Haws..... 129,342
Metals, machine for corrugating, J. Moffet..... 129,290
Motion to machines, device for communicating, L. Cheatham..... 129,316
Nail extractor, G. J. Capewell..... 129,210
Ore crusher, S. R. Krom..... 129,238
Pail and commode, combined sloop, D. Paterson..... 129,294
Paper cutting machine, S. M. Clark..... 129,319
Planter, corn, L. H. Converse..... 129,320
Planter, corn, Wight and Ewing..... 129,333
Planter, corn, J. K. Welter..... 129,380
Plow, A. P. Barry..... 129,265
Plow, W. Hall..... 129,364
Plow, T. E. Putnam..... 129,296
Plow, rotary, W. E. Blecker..... 129,206
Plow clevis pin, H. McKinney..... 129,355
Printer's case stand, P. S. Hoe..... 129,281
Privy seat, W. P. Hastings..... 129,223
Pump for deep wells, W. H. Genung..... 129,320

Pumps, etc., valve motion for steam, J. Clayton..... 129,269
Radiators, automatic air cock for steam, J. R. Nichols..... 129,291
Railroad switch, H. Fitzsimmons..... 129,338
Refrigerating apparatus, J. J. Bailey..... 129,308
Saddle tree, side, D. M. Oliver..... 129,292
Safe, fire proof, H. Ludecke..... 129,286
Sash holder, A. W. Pennington..... 129,248
Saw mill, head block for, J. B. Wayne..... 129,378
Saw set, R. E. Poindexter..... 129,249
Saw sharpening and gumming machine, D. Backus..... 129,307
Sawing machine, T. W. Carmichael..... 129,211
Sawing machine, J. H. J. Hincke..... 129,226
Screw tap, W. Tucker..... 129,379
Seats and desks, joint for school, L. Lancaster..... 129,239
Seeder, hand, B. W. Harris..... 129,279
Sewing machine crate, F. Tanner..... 129,373
Sewing machine, ruffer, A. Leslie..... 129,351
Shawls, preparing yarn for the manufacture of, H. N. Bruner..... 129,208
Shoe, W. H. Gilman..... 129,338
Shoe fastening, Chincock and Schneider..... 129,313
Shoe fastening, I. J. Saunders..... 129,255
Shoe shanks, machine for cutting, and bending metal, J. Hyslop, Jr..... 129,347
Shoes, manufacture of, G. A. Richardson..... 129,252
Shuttle box actuating mechanism, K. J. Duggan..... 129,272
Spark arrester, J. L. Ferris..... 129,273
Stage machinery, G. W. Hinckley..... 129,227
Stalk cutter, corn, D. Wilde..... 129,384
Stencil plate, J. F. W. Dorman..... 129,271
Stereotyping and telegraphing machine, combined, M. Gally..... 129,331
Stirrups, machine for trimming, F. Freeman..... 129,273
Stove, heating, J. V. B. Carter..... 129,315
Stove, base burning, J. Spear (reissue)..... 4,985, 4,986
Stove, base burning, W. J. Keep..... 129,284
Stove, base burning, A. C. Rand..... 129,265
Stove, selffeeding cooking, G. Weaver..... 129,379
Stoves, heating attachment for cooking, J. Beeler..... 129,267
Telegraph apparatus, Foote and Randall..... 129,279
Theodolite, U. F. Biggs..... 129,311
Thrashing cylinder, H. Moore..... 129,245
Time adjuster, J. A. Miller..... 129,244
Trap, animal, S. L. Allen..... 129,203
Trap, animal, W. Patterson..... 129,295
Trap, fly, G. E. Le Roy..... 129,350
Trap, fly, J. B. Childs..... 129,317
Trunk, W. Mayberry..... 129,242
Tubing, mode of manufacturing waterproof, Bates and Faulkner..... 129,266
Vehicles, spring for, C. W. Saladee..... 129,207
Wagon spring seat, Steigmeyer and Reichert..... 129,371
Washing machine, J. Jones..... 129,286
Washing machine, J. A. Wood..... 129,262
Water elevator, rotary, J. I. Shotwell..... 129,299
Water main taps, well for, P. E. Ober..... 129,246
Water wheel, J. Raney (reissue)..... 4,984
Water wheel, turbine, G. C. and J. F. Stevens (reissue)..... 4,987
Weighing machine, grain, A. G. Hamacher..... 129,222
Well, W. M. Campbell..... 129,314
Wells, by compressed air, operating oil, M. Lytle..... 129,353
Wheels, manufacture of cast chilled, G. Whitney..... 129,382
Wrench, fork, D. Witt..... 129,302

DESIGNS PATENTED.

5,910.—SPICE CASTER.—G. S. Adams, New York city.
5,961.—NETTED FABRICS.—W. Dexter, Brooklyn, N. Y.
5,982.—TYPE.—C. C. Hine, Newark, N. J.
5,983.—RUBBER MAT.—L. L. Hyatt, New Brunswick, N. J.
5,984.—TYPE.—A. Little, New York city.
5,985.—SODA WATER APPARATUS.—G. F. Meacham, Newton, Mass.

TRADE MARKS REGISTERED.

890.—EMERY.—Baeder, Adamson & Co., Philadelphia, Pa.
891.—COFFEE, SPICES, ETC.—Chase & Co., Buffalo, N. Y.
892.—CORN MILLS.—H. D. Coleman, New Orleans, La.
893.—MEDICINE.—W. B. Douglass & Co., Washington, D. C.
894.—HAMS.—Evans, Lippincott & Cunningham, Cincinnati, O.
895.—FLOUR.—Farber, McPike & Co., Alton, Ill.
896.—MEDICINE.—J. and C. Maguire, St. Louis, Mo.
897.—SHIRTS.—Marley & Cook, Newark, N. J.
898.—BITTERS.—J. Niederlander & Co., Columbus, O.
899.—GINGER TONIC BITTERS.—W. M. Tileston, New York city.
900.—CIGARS.—E. W. Woodbury, New York city.

SCHEDULE OF PATENT FEES:

On each caveat..... \$1
On each Trade-Mark..... \$2
On filing each application for a Patent, (seventeen years)..... \$10
On issuing each original Patent..... \$0
On appeal to Examiners-in-Chief..... \$0
On appeal to Commissioner of Patents..... \$2
On application for Reissue..... \$3
On application for Extension of Patent..... \$3
On granting the Extension..... \$5
On filing a Disclaimer..... \$1
On an application for Design (three and a half years)..... \$1
On an application for Design (seven years)..... \$1
On an application for Design (fourteen years)..... \$3

For Copy of Claim of any Patent issued within 30 years..... 1
A sketch from the model or drawing, relating to such portion of a machine as the Claim covers, from..... 1
upward, but usually at the price above-named.
The full Specification of any patent issued since Nov. 20, 1866 at which time the Patent Office commenced printing them..... 1.25
Official Copies of Drawings of any patent issued since 1836, we can supply at a reasonable cost, the price depending upon the amount of labor involved and the number of views.
Full information as to price of drawings in each case, may be had by addressing

MUNN & CO., Patent Solicitors, 37 Park Row, New York.

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:
16,814.—CIRCULAR SAW MACHINE.—C. P. S. Wardwell. Sept. 25, 1872.
21,734.—WATER CLOSET.—F. H. Bartholomew. Sept. 25, 1872.
21,762.—KNITTING MACHINE.—J. K. and E. E. Kilbourn. Sept. 25, 1872.
21,798.—SPELLING BLOCKS.—S. L. Hill. September 25, 1872.
21,846.—PLOW.—W. Reaney. October 2, 1872.

EXTENSIONS GRANTED.

20,960.—BOOT HEEL SHAVER.—V. Snell.
20,970.—ELECTROMAGNETIC ALARM.—W. Whiting.
21,026.—CAR COUPLING.—B. E. Sampson.

EXTENSION REFUSED.

20,865.—ROCKING CHAIR.—I. P. Carrier.

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 full 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 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, N. Y.

FOREIGN PATENTS—A HINT TO PATENTEES.

It is generally much better to apply for foreign patents simultaneously with the application in the United States. If this cannot be conveniently done, as little time as possible should be lost after the patent is issued, as the laws in some foreign countries allow patents to any who first make the application, and in this way many inventors are deprived of valid patents for their own inventions. It should also be borne in mind that a patent is issued in England to the first introducer, without regard to the rights of the real inventor; therefore, it is important that all applications should be entrusted to responsible agents in this country, who can assure parties that their valuable inventions will not be misappropriated. The population of Great Britain is 31,000,000; of France, 40,000,000; Belgium, 5,000,000; Austria, 38,000,000; Prussia, 25,000,000; German Confederation, 40,000,000; Canada, 4,000,000; and Russia, 70,000,000. Patents may be secured by American citizens in all of these countries. 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, N. Y.

Circulars, with full information on foreign patents, furnished free. The new patent law in Canada permits Americans to take patents there on favorable terms.

Inventions Patented in England by Americans.

(Compiled from the Commissioners of Patents' Journal.) From July 6 to July 11, 1872, inclusive.

BEATING CARPETS.—A. A. Schlesinger, San Francisco, Cal.
BLOWPIPE, ETC.—J. Cook (of New York city), Liverpool, England.
CARPET PAD.—E. H. Bailey, Brooklyn, N. Y.
COTTON TIE.—J. E. Aiken, New Orleans, La., C. Swett, Copiah, Miss.
FIRE EXTINGUISHER.—J. J. Walton, Newark, N. J.
PAVEMENT.—C. W. M. Smith, San Francisco, Cal.
PRINTING TELEGRAPH.—M. F. Wessman, Brooklyn, N. Y.
PRINTING TELEGRAPH.—R. H. Gallaher, New York city.
PRINTING TELEGRAPH.—R. H. Gallaher, New York city.
SHIRT.—O. H. Keep, New York city.
STANDING RIGGING.—H. E. Townsend (of Boston, Mass.), London, England.
WELDING ALLOYS.—G. R. Meneely, West Troy, N. Y.

NEW PATENT LAW IN CANADA.

By the terms of the new patent law of Canada (taking effect September 1st, 1872) patents are to be granted in Canada to American citizens on the most favorable terms.

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.

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.

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, N. Y., who will give prompt attention to the business and furnish pamphlets of instruction free.

Messrs. Munn & Co., have had twenty-five years experience in the business of obtaining American and Foreign Patents for inventors; they have special agencies in nearly all countries where patents are granted. Moderate charges and prompt attention may always be expected.

MUNN & CO., 37 Park Row, N. Y.

INVESTMENT SECURITIES.

The Northern Pacific Railroad Company, through its Financial Agents, offers for sale its First Mortgage 7.30 Gold Bonds. They fall due in 30 year bear 7.30 per cent. gold interest, payable semi-annually, are exempt from U. S. tax to the holder, and are secured by first and only mortgage on 1. The Railroad, its Right of Way, Franchise, Rolling Stock, and other property.

2. Its Traffic or Net Earnings.
3. A Government Grant of Land, averaging, on completion of the Road, about 23,000 acres per mile of track.

The Road follows what is known as the Valley Route to the Pacific, flanked most of the way by an excellent country, and is assured in advance of a vast and profitable traffic which already awaits its completion. The work of construction is steadily and satisfactorily progressing; the settlement of the adjacent country and the building of towns keep pace with the advance of the road; a large body of the Company's lands is already in market, and the proceeds of sales will constitute a Sinking Fund for the redemption of the Company's Bonds, which are convertible at 110 into the Company's Lands at market prices.

Believing that these Bonds, both in point of safety and profitability, constitute such a security as judicious investors can approve, we recommend them to the public. Government Bonds and all marketable securities are received in exchange at current quotations without cost to the investor.

JAY COOKE & CO., New York, Philadelphia and Washington, Financial Agents N. P. R. Co.

NEW BOOKS AND PUBLICATIONS.

THE ALDINE. James Sutton & Co. Publishers, 23 Liberty Street, New York. Subscription \$5.00 a year, with oil chromo.

As usual, the Aldine is replete with admirable engravings and light graceful literature. The August number has, for a frontispiece, a "Winter Sketch," by George H. Smilie, exquisitely designed and engraved; and there are contributions from Julian Hawthorne, E. C. Stedman, and others.
NATURE'S LAWS IN HUMAN LIFE. Boston: William White & Co. 308 pp. 8vo. Price \$1.50. By the Author of the "Vital Magnetic Cure."

This is an exposition of Spiritualism, containing the various opinions of extremists, pro and con, together with the personal experiences of the author.

THE ECLECTIC MAGAZINE. New York: E. R. Pelton, Publisher. \$5.00 a year.

The August number opens with a handsome steel portrait of George William Curtis, and presents its unusual excellent table of contents, mainly derived from the English periodicals.

VAN NOSTRAND'S ECLECTIC ENGINEERING MAGAZINE. Published by D. Van Nostrand, 23 Murray St., New York. \$5.00 a year.

The August number contains Captain Ericsson's paper on "Radiation at Different Temperatures;" a valuable article on "Narrow Gauge Wooden Railways;" another on the "Effect of Torpedoes on Naval Construction;" "Economic Marine Engines;" the "Use of the Magnetic Needle in Mineral Explorations on Lake Superior;" besides various other generally valuable selections on engineering and kindred topics.