

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

July 29, 1902,

AND EACH BEARING THAT DATE. (See note at end of list about copies of these patents.)

Table of inventions including: Adding-machine, J. L. Levin; Adjustable brace or support for movable structures; Air-brake system, W. G. MacLaughlin; Air cooling, drying, and purifying apparatus, W. L. Moore; Air-motor, E. Glowacki; Air purifier, H. V. Puckler; Alarm, See Refrigerator pan alarm; Ammonia separator, V. Johnson; Annunciator, electric, W. R. Winter; Ash or garbage receptacle, T. W. Hughes; Asphalt cooking drums, scraper, for, J. P. Nelson; Automatic switch, H. A. Poppenhusen; Automobile, S. T. Davis, Jr.; Awnings, device for raising or lowering, G. H. Egbers; Axle and axle box, vehicle, H. H. Porter; Axle, vehicle, J. A. McLaughlin; Bicycle repair implement, F. Richard; Barrel hook or handle, N. Beeching; Bearing, H. H. Porter; Bearing for engraving machines, spindle, C. R. Jay; Bearing, spindle, J. Kilburn; Bearing, trust, A. E. Henderson; Beds or seats, framework for spring, W. A. Murray; Belt, conveyor, W. J. Selleck; Bicycle attachment, F. Gooch; Blast or other furnace, E. F. Coffin; Boiler furnace, A. M. Rankin; Boilers, soot cleaner for steam, W. Eichelberger; Bolster roll, J. E. Long; Bolt locking device, D. Ferguson; Book, bank deposit coupon, P. Kuehn; Book cover, Neundorfer & Witse; Book or parcel carrier or holder, T. H. Shottenger; Bottle washing machine, M. P. Shea; Brake, G. W. Stevens; Brake head, adjustable, G. P. Ritter; Brake shoe adjuster, E. M. Herr; Broom, H. Neilson; Brush, bottle washing, C. K. Volckening; Brush, sprinkling scrub, F. Pirrung; Buckle, E. T. Specht; Buggy top, raised, M. Brown; Bushings, machine for turning piston rings, A. R. Davis; Buttonhole cutter, L. F. Monck; Button, separable, H. R. Sieverkropp; Calculating machine, C. Hamann; Calendar, collection, E. B. Peterson; Cam mechanism, G. B. Petsche; Can. See Ice can; Car brake, J. R. Montague; Car fans and fans, pneumatic motor for, C. A. Evans; Car fender, J. W. Wilmeyer; Car fender, C. Giblin; Car fender or guard, tramway, J. Bauer; Car fender, street, O. Olsen; Car lighting, generating apparatus for, A. F. Madden; Car roof, A. W. Wilcox; Car vestibules, self-attachment for trolley, S. E. Pressler; Carbonator, G. A. Flesche et al.; Carburetor for explosive engines, G. A. Graves; Card, educational, J. Gibson; Cartridge, G. Muller; Cash register, W. H. Bell; Cash register, Smith & Susstrong; Cast off, E. T. Specht; Casting ingots in continuous long lengths, apparatus for, J. O. E. Trotz; Cellulose products, manufacture of, Frimery & Urban; Chain belts, machine for assembling links in making, J. C. Howe; Cigar machine, H. A. Schneekloth; Cigarette making machine, individual, F. J. Lundgren; Clasp or fastener, W. Crane; Clock, electric, J. Butcher; Coating for brick or stone, moisture proof, W. A. Tucker; Coke ovens or other kilns tight, making the interior of, R. Kuhn; Coking coal, continuous process of, J. Hemingway; Collar turning and ironing machine, C. C. Grudick; Combustion promoting and controlling device, E. Baumgartner; Concrete or the like, machine for mixing, W. J. Judd; Conduit clamp, F. O. Wellington; Conveyor, portable, W. L. McCabe; Core oven, T. L. Griffith; Corn husker, L. R. Loomis; Cornish roll, M. G. Giesler; Corset cover, J. M. Van Orden; Corset fastener, J. Britnell; Cotton chopper, J. H. Forister; Crushing and pulverizing mill, J. P. Sanders; Crutch, adjustable, W. F. Drew; Current motor, automatic, J. Roeh; Curtain stretcher, W. A. Mayr; Demijohn covering, J. G. Bahr; Deodorizing, F. M. Pratt; Designs, transferring, K. Kraut; Disintegrator, E. R. Sutcliffe; Distillation, retort for wood, W. B. Chapman; Door attachment, grain, C. T. Docter; Door, flexible, J. S. Blake; Door-stop, J. C. Winn; Doweling machine, Edwards & Wauters; Drawers separator, H. C. Smith; Dredge, clam or oyster, W. A. Thompson; Dredge, sewer, E. Chabquette; Dredger cutter, hydraulic, R. A. Penny; Drilling edges of boards, machine for, Edwards & Wauters; Drilling machine, portable, J. Rourke; Drum, heating, E. Graham; Drying apparatus, J. C. Fleming; Dust collector, J. E. Mitchell; Dust collector and sweeper, pneumatic, J. T. Hope; Dyeing, etc., apparatus, D. Mattei; Earth or rock drill, F. H. Dannhardt; Electric accumulator plates, separator for, R. Alexander-Katz; Electric battery, E. R. Gill; Electric circuit, loaded, Lee & Colpitts; Electric heater, W. S. Hadaway, Jr.; Electric signal, V. J. Ross; Electricity supply purposes, cable terminal box for, G. Wilkinson; Engine. See Locomotive engine; Engine ignition regulator, gas, M. J. Sullivan; Engines, spark for explosive, G. A. Graves; Exhaust apparatus, J. Y. Smith; Extension table, H. C. Schneider; Fastening device, R. W. Grove; Feed mechanism, H. Marles; Feed trough, J. W. Barnes; Fence lock, W. B. MacLean; Fertilizer distributor, A. McWhorter; Filter bed, J. C. Wallace; Filter, water, A. G. Noack; Finger straightening case, M. Gottschalk; Fire escape, R. Hammerly; Fire escape, M. Abrams; Fire escape and water tower combined, Schwartz & Bryant; Fire in oil tanks, etc., apparatus for extinguishing, J. Hazledine; Fire protecting shutter, automatic, T. Ohno

Table of inventions including: Fish trap hook, M. Greer; Fishing reel, H. Hendry; Floor mat, flexible metal, G. W. & H. McNeely; Flue cleaner, T. J. Hart; Fluids, dispersing, W. J. Morton; Flush, trap, J. E. Key; Fly trap, E. Potter; Formaldehyde, solidifying, R. Groppler; Forming and pressing machine, W. H. Hayes; Freezing, protecting exposed filters or other confined liquid bodies from, L. K. Davis; Fruit drier, C. J. Kurtz; Fruit, means applicable for use in transporting, R. R. Blandy; Furnace, E. O. Rickard; Furnace stoking mechanism, W. McClave; Furnaces, valve for heating, W. F. Shick et al.; Furniture, etc., leg or standard for, W. G. Davis; Galvanic battery, C. E. Schoenmehl; Game board, F. E. Morrill; Game board, M. Schinkel; Garbage receptacle and means for handling same, J. Tiele; Garment supporter and waist adjuster, A. H. Matlack; Garment, un, G. D. Cook; Gas burner, F. Harper; Gas-burner, Politsky Agust; Gas burner, incandescent, A. Murinick; Gas generating apparatus, carbonic acid, F. A. Feldkamp; Gas generator, acetylene, A. & P. L. Davis; Gas generator, acetylene, S. W. Ray; Gas generator, acetylene, H. L. Bugg; Gas producer, J. A. Herrick; Gas retorts, means for charging, E. Droy; Gear for traction engines, Drive, D. B. Arnold; Gearing, compensating, E. Huber; Gearing, frictional, G. W. Stinebrink; Genealogical chain record, P. W. Gee; Glass articles, apparatus for forming, J. A. Arnold; Glove, boxing, J. Gamble; Glycerin refining apparatus, Schmidt & Joslin; Glycosuria antidote and producing same, F. Blum; Gold and silver from their solutions, apparatus for precipitating, A. James; Gold, silver, or other ores, cyanid process of working, R. H. Osher et al.; Golf ball, E. Kamphuis; Grain, etc., apparatus for drying, M. Kong; Gramophone turn or supporting plates, driving mechanism for rotary, T. Birnham; Grinding and polishing machine, C. Maldner; Gyroscope for obtaining artificial horizons, collimator, Jonthas & Therode; Handle. See Tool handle; Handles to tools, coupling for connecting, W. A. Attle; Harrow, rotary wheel, E. Brucker; Harvester cutter, corn, A. N. Hadley; Harvester, sugar beet, R. M. Fraser; Heating system, steam, W. E. Roys; Hitcher, horse, P. K. Young; Hitching device, safety, L. H. Abbee; Hoisting bucket carrier, A. Wirsing; Hoop pad, yielding, T. Ryan; Hopple on horse's halter, H. A. Postwick; Horizons, means for keeping moving objects in, N. Ach.; Horseshoe cushioned, P. J. Coates; Hot air wall register, J. H. Pugh; Hot blast furnace, E. T. Bradford; Hydrocarbon burner, M. W. Morgan; Ice can, F. D. Swaney; Ice cream can, R. Bauers; Igniter, A. H. Humphrey; Impressions, device for making, D. L. Falar; Ink pad box, J. Quartz; Insulating support for metallic circuits, J. S. Allen; Intermediate coupling, W. C. Wilson; Jar opener, W. S. Marsh; Journal bearing, H. H. Hewitt; Journal bearing, G. N. Schlaefli; Key cone, J. P. Schaefer; Knockdown box, J. E. Neuhues; Labeling machine, J. J. Gaynor; Lacing hook, G. W. Chipley; Lamp, hydrocarbon, W. Hawks; Lamp, incandescent gas, F. M. Brooks; Lamp, signal, F. K. Wright; Lamps by electricity, device for lighting, S. M. Meye; Lampblack, padding, D. J. Gilly; Lantern, A. F. Titz; Last, A. G. Fitz; Letter box, street, F. D. Osborn; Lever, shunting, W. Taylor; Limotype machines, trimming mechanism for, F. J. Wich; Liquid defecating apparatus, J. E. Hatten; Liquid heating apparatus, J. Fliegel; Liquid separator, S. C. Liebberg; Lock, R. Ferguson; Lock, W. A. Markey; Locomotive engine, compound, C. M. Muehlic; Loom, Conklin & Singer; Loom shuttle, H. Bardsley; Loom shuttle checking mechanism, C. H. Draper; Loom shuttle checking mechanism, Tubby & Brodbeck; Loom stopping mechanism, automatic, A. B. Emery; Lubricator, J. M. Pfaudler; Magnetic core for inductance coils, Lee & Colpitts; Mail delivery and collection system, F. S. Vogue; Manure distributor, J. Howell; Match box, J. B. Enderick; Metal cleaning and preserving composition, W. C. Oberwalder; Metal cutting tool, McKorie & Hunter; Metal piercing machinery for making hollow bodies, E. F. McTeer; Metals and alloys, treating metallic oxides in the production of, F. C. Weber; Metals from their ores, etc., in electrically heated furnaces, reduction of, R. C. Conard; Metallic strap, E. H. Vogel; Metallic tie and rail fastener, A. Scholer; Metallic tie and rail joint, J. F. Cleary; Miner's tool, combination, M. Hardsocg; Molds. See Tooth mold; Mold for hollow concrete articles, W. W. Reeves; Monkey wrench, C. P. Whittemore; Motion transmitting device, Stokes & McCluney; Motor, R. L. Barnhart; Musical instrument, mechanical, J. McTammany; Needle, tape, M. E. Whittemore; Nipple, bottle, P. Gauss; Nozzle, C. R. Harris; Nut lock, C. L. Dunham; Nut lock, G. W. Vandevender; Nut lock, G. W. Anderson; Nut lock for rail joints, C. W. Robinson; Oil burner, J. S. Cheulhals; Oil fuel generator, W. H. Dye; Oil, producing cotton-seed, C. O. Phillips; Ordnance, breech block and chamber for, C. Holmstrom; Ore bin, G. H. Hulett; Ores preparatory to smelting, desulfurizing of, A. D. Carmichael; Oval cutting machine, W. H. Parker; Oven swab, G. W. Treichel; Pail, milk, S. Bruckmann; Pail, milk, J. H. King; Paint, W. Leonard-Poste; Panel board, electrical, H. Krantz; Panel, lining, ceiling, and floor for buildings, etc., and paving for streets, wooden, W. T. Crosse; Paper drying machine, Paul & Joslin; Paper making machines, suction box for, J. B. Lynch; Parchment free from germs, producing vegetable, A. Mackensen

Table of inventions including: Paving, manufacture of bituminous, W. S. Wilkinson; Paving mixture or composition, asphaltic, Wilkinson & Burchinal; Pen, fountain, R. C. Paine; Pencil, lead, L. C. Benitz; Pendulum, conical, F. M. Clark; Phonogram reproducing apparatus, W. F. Messer; Photographic film and making same, casein, O. Buss; Pile driver, J. H. Hopkins; Pile fabric, producing figured, O. Timme; Pipe hanger, C. W. Smart; Pipe holder or clutch, D. P. Upson; Pipe wrench, J. G. Morith; Pipe wrench, C. L. Dunham; Piping machine, double working, Lehmann & Maurer; Planter, cotton, J. A. McCann; Plate holder, magazine, Brooks & Watson; Playing ball, E. Kampshoff; Plow, disk, L. E. Waterman; Plow, wheeled, L. E. Waterman; Pneumatic despatch tube inlet, F. R. Taisey; Polishing machine, M. H. Ballard; Powder puff, M. L. Gumaer; Primer equalizing, controlling, and storing apparatus, L. H. Osterud; Press, M. Anthony; Projecting apparatus, A. & L. Lumiere; Propeller, adjustable screw, E. E. Punzelt; Pump, H. T. Henson; Pump mechanism, E. M. Ivens; Pump, water sealed air, M. Potviet; Puzzle, wire, F. Herd; Radiator, C. W. Rogers; Rail joint, C. R. Edwards; Rail joint, W. Floss; Rail joint, Dixon & Bevine; Rail joint, V. L. Truxall; Rail support, C. E. Neubauer; Railway cabs, electric signal for, J. W. Frost; Railway, electric, C. J. Kintner; Railway rail joint, J. C. Fair; Railway rail joint, C. Rhoades; Railway stock guard, Williams & McCall; Ratchet mechanism, C. Ross; Rattle, rhythmic, L. S. Burbank; Reel. See Fishing reel; Refrigerator pan alarm, Von & Laprise; Regenerative furnace, F. H. Treat; Rein guard, J. T. West; Retort furnace, W. B. Chapman; Reversing mechanism, S. Nielsen; Reversing mechanism, R. R. Reek; Rice, etc., machine for cleaning, R. W. Welch; Rifle, J. H. Carl; Road breaking machine, I. Wrobel; Roller attachment, elevating, A. H. Centner; Rolling flat sheet metal, apparatus for, T. Whitehouse; Rolling pin, B. Dupp; Rotary engine, E. Cary; Rotary engine, F. G. Grove; Sad iron, G. Finn; Sash weight, J. B. Ansley; Saw clamp, A. J. Jaeger; Saw filing device, A. J. Beck; Saw repairing machine, W. Travis; Scoring machines, adjustable receiving table for, W. Hobbs; Screw driver, G. E. G. G. G.; Sealing machine, bottle, W. S. Dorman; Sewing machine feeding mechanism, Batchelor & Hall; Sewing machine feeding mechanism, C. H. Foster; Sewing machine feeding mechanism, Oenderdonk & Merritt; Sewing machine feeding mechanism, L. Oenderdonk; Sewing machine guide, Leach & Moore; Sewing machine stitch forming mechanism, H. H. Fefel; Shade and curtain pole holder, adjustable window, Ashton & Banter; Shade roller and fixture, G. C. Mathers; Shade support, window, F. R. Mease; Shoe-fastener, M. S. Brown; Sieve, A. Teichmann; Sign board, J. M. Nielsen; Sign, electric, T. E. Murray; Signal device, H. S. Balliet; Signal mechanism, R. Herman; Silk fiber, intensifying the luster of, C. Stuart; Silk lustering machine, C. Stuart; Sled, C. Miller; Solder, to metal blanks, machine for applying, L. E. Leach; Soldering iron, G. Guntz; Sound record reproducer, T. A. Edison; Spinning and doubling fibrous substances, machinery for, G. H. Milward; Spinning apparatus, yarn, J. Booth; Spraying apparatus, M. J. Caswell; Square and level, combination, H. H. Richardson; Stance winding, H. Snider; Stamp, time, N. Collins; Steam boiler, E. W. McCanna; Steam generating and water heating boiler, F. Logan; Steam heater, low-pressure, F. Tudor; Steering mechanism, Allen & Danforth; Stereoscope, H. E. Richmond; Sterilizing water, etc., apparatus for, D. Grove; Stethoscope, Knudson & Clark; Stone facing for buildings, artificial, Kelly & Sarazan; Stone, artificial, V. Conti et al.; Stool, foldable, P. R. Anton; Stopper fastener, J. A. Jones; Stove, W. Heurmann; Stove, heating, W. Drengrwitz; Stovepipe holder, J. S. Rhodes; Street receiver, T. J. Brien; Sugar refining apparatus, J. Robin-Langlois; Suspenders and trousers connection, R. T. Clarke; Suspenders, cast-off connection for, E. T. Specht; Swing, E. Lurch, reissue; Table, G. H. Bullock; Tack puller, T. G. Bladen; Tag holder, W. S. Jacobs; Tail's pressing machine, J. Dzeck; Telephone, J. Lyons; Temperature regulator, A. Roesch; Thill coupling, Spitzli & Lord; Thread cutting tool, adjustable, H. B. Yates; Threshing or separating machine, G. E. Wilson; Time switch mechanism, G. Zaepfel; Tire, wheel, H. Lieberthal; Tobacco fork, W. L. Moore; Tool, H. M. Willis; Tool handle, adjustable, garden, W. V. Magee; Tooth mold, artificial, T. Steele; Toy bubble blower, L. H. Rockwell; Toy game, R. Astarita; Toy or advertising device, J. A. Mangold; Toy, sounding, L. Long; Trace fastener, W. H. Thompson; Track sander, pneumatic, E. M. Hedley; Transit instrument, solar attachment for, O. F. Shattuck; Trolley, W. L. von Hardenberg; Trolley, T. W. Sutton; Trolley head and wheel, W. A. E. Davis; Truck, railway car, H. R. Kethley; Trunk, wardrobe, J. J. Cannon; Truss, hernial, J. H. & D. L. Chesterman; Turbine, steam or gas, H. Zoelly; Type writer or analogous key cap, W. B. Savill; Type writing machine, T. Cahill; Type writing machine, C. W. Howell, Jr.; Types or matrices, mechanism for justifying lines composed of, E. Mullendorff; Uncoupling device, H. Bruns; Valve, balanced slide, J. T. Wilson; Valve, safety, W. C. Field; Varnishing, G. Tuschel; Vaul cover, Knapp & Steinberg; Vehicle, L. B. Truslow; Vehicle wheel spindle, E. E. Root

Table of inventions including: Vehicles, differential gear for self-propelling, A. Herschmann; Vehicles, two speed and differential gear for motor, J. C. Robbins; Veneer drying machine, M. Rossow; Vise, drill, and bolt holder, combined, E. L. Kennedy; Voucher, H. Wise; Wagon jack, J. B. Mack; Wagon rack, Harris & Reese; Wall, retaining, F. A. Bone; Washing machine, J. B. Rentzel; Washing machine, G. Thomas; Waste pipe trap, Lombard & Cole; Waste trap, J. W. McAuliffe; Watch, stem winding, W. E. Porter; Water wheel system, horizontal, A. Giesler; Water wheel system, turbine, A. Giesler; Wheel, E. J. Edwards; Wheel making machine, V. P. Keller; Wind motor, A. Gran; Wind wheel, A. J. Bolton; Windlass, sweep operated hoisting, E. R. Storms; Windmill, governor for, C. F. Ohler; Window, J. Horsfield; Wire machine tension device, barbed, Mack & Miller; Wire stretcher, R. F. Boatright; Wire stretcher, S. Bates; Wire stretching machine, H. Hyde; Wood splitting machine, O. E. Ellison; Wrench, J. Brien; Wrenches, construction of, H. Searle

DESIGNS.

Table of designs including: Autocurette body, W. E. Schneider; Mantel, W. H. & J. P. Walker; Spoons, fork, or similar articles, handle for, T. Bender

TRADE MARKS.

Table of trade marks including: Acid and preparations containing same, carbolic, F. C. Calvert & Co.; Ales, Bartels Brewing Co.; Batteries, dry, Nungesser Electric Battery Co.; Bituminous composition or cement, Warren Brothers Co.; Books, scrap, Perfect Scrap Book Co.; Caddy bags, M. Hartley Co.; Cement, certain named, Clark Cast Steel Cement Co.; Cigars and cigarettes, little, C. Upmann; Coffee, java and mocha, Nash-Smith Tea and Coffee Co.; Coffee, roasted, O. H. Griswold; Conserving compound, E. Utescher; Electric cells, primary, Portable Electric Power and Light Co.; Games, checker board, Salta, ersand won August Wasmuth; Golf balls, M. Hartley Co.; Grease, compound for extracting, T. H. Price; Heating apparatus, certain named, Pierce, Butler & Pierce Mfg. Co.; Ink for finishing edges of heels of boots and shoes, S. A. White Co.; Inks, printing, S. Ullman Co.; Knit underwear and hosiery, Robert Reis & Co.; Lamps and lanterns, portable electric and oil, 20th Century Mfg. Co.; Lamps, incandescent electric, Bryan March Co.; Marmalade, Coronation Marmalade Co.; Mintment, C. Meichel; Paints, Naamloze Vennootschap Nederlandsche Verfabriek 'Eclatant'; Papers and roofing papers, L. A. Tenen; Paper, wrapping, waxed and tilled, Albany Perforated Wrapping Paper Co.; Remedy for dandruff and a hair and scalp tonic, S. T. Dustin; Scales, weighing, H. N. Strait Mfg. Co.; Soap, F. M. Coulter; Sirup and molasses, table, Towle Sirup Co.; Talking machines, disk, W. V. P. Bradley; Tires for bicycles, carriages, and automobiles, pneumatic, Fisk Rubber Co.; Tonic, nerve, E. N. Baker; Veterinary remedy, E. M. Krueger; Washing compounds, certain named, C. C. Gerhart; Yarns and thread, certain named, Calhoun, Robbins & Co.

LABELS.

Table of labels including: Alderney Baking Powder, for baking powder, National Label Co.; Ammonia Celery, for medicine, Thos. Kelly & Son; Cast Steel Cement, for cement, Clark Cast Steel Cement Co.; Complices of the Season, for cigars, American Lithographic Co.; Cybeline, for dandruff cure, G. L. Tyler; El Intacto, for cigars, C. Stutz, a Firm.; Josephine, for cigars, C. Stutz, a Firm.; Kempshall Flyer, for golf balls, Kempshall Mfg. Co.; Kempshall League, for golf balls, Kempshall Mfg. Co.; La Magnolia, for cigars, C. Stutz, a Firm.; Las Americas, for men's cloth, D. A. de Lima & Co.; Maze Loaf, for cereal food, Gordan & Richardson; Mi Elektra, for cigars, C. Stutz, a Firm.; Monarch Record, for sound records, Victor Talking Machine Co.; Otoman, for cigars, Lincoln, Seyms & Co.; Primus, for bottled beer, Barker & Wheeler Co.; Rex Pork and Beans, for pork and beans, Cuddly Packing Co.; Sprayine, for medicine, F. W. Robinson; Story's Foot Relief, for foot powder, Fabrikoid Co.; Victor Record, for sound records, Victor Talking Machine Co.

PRINTS.

Table of prints including: A Combination Game, for game apparatus, McLoughlin Brothers; A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 10 cents, provided the name and number of the patent desired and the date be given. Address Munn & Co., 361 Broadway, New York.

NEW BOOKS ETC.

SOCIETY OF ENGINEERS. British vs. American Patent Law Practice and Engineering Invention. Paper by Benjamin H. Thwaite. Read at the Royal United Service Institution, March 3, 1902. London: Published by the Society of Engineers. 1902. Pp. 19. The SCIENTIFIC AMERICAN, in its column of "Legal Notes," has already called attention to Benjamin H. Thwaite's admirable discussion of (Continued on page 96)