

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending November 12, 1901, AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

Table of inventions including: Air apparatus for liquefaction of atmospheric air, Air compressor for automobile alarm whistles, Alarm, See Low and high water alarm, Alarm gage, E. Fortier, Amalgamator, F. J. Hoyt, Anticaching device, S. E. L. Wilson, Ashes removing apparatus, anti-dust, Adams & Howland, Axle lubricator, A. R. Carr, Axle, vehicle, A. R. Long, Ball retainer, H. B. Keiper, Battery gage, C. R. Underhill, Bearing, roller, A. E. Henderson, Bed, trundle, C. Simmons, Bell, electric, J. J. Mossop, Bell, tubular, C. A. Jacques, Bevel screws, rotary, C. J. Wangler, Bib, F. E. McCutchie, Binders and harvesters, folding reel for, B. A. Selph, Boiler flue plug, W. G. Cogswell, Boiler tube, J. Devantery, Boiler water circulation, S. D. Mott, Boilers, apparatus for maintaining the water line in steam, G. I. Rockwood, Bookbinding, B. F. Welker, Boot stiffer, H. C. Mansfield, Bottle stopper, C. Marchand, Bottle stopper, L. Amberg, Bottle stopper, H. Wayne, Box fastener, Dillenbeck & Flueso, Brake beam, F. B. Aglar, Brake head, W. D. Sargent, Brakes of railway vehicles, apparatus for automatically applying, Witting & Distritzenau, Brick kiln, W. H. Patton, Brick kiln, W. Joyce, Brick making, D. A. Keizer, Brick moulding and pressing machine, A. E. Volkersen, Broom rack, T. A. Sollars, Brush, C. M. Higgins, Brush machine, W. H. Gates, Buckle, T. H. Fishel, Buckle, thill tug, J. T. Cooney, Burner, G. Machlet, Jr., Button cutter, H. B. Waters, Button hook, C. A. O'Connor, Buttonhole hitch gage and cord guide, J. T. Killmeier, Cage chair, safety, M. W. Jelinek, Calking device, M. Dunn, Cans, treating food products in, Cameron & Clingen, Capstan or windlass, T. G. Cantrell, Car coupling, Hazlett & Rich, Car door, grain, J. D. Horton, Car replacer, R. E. Alexander, Card receptacle, R. Simpson, Card beating frame, J. Smith, Carriage, subcaliber, M. J. Wheeler, Case, See Show case, Cash register, Watson & McGraw, Casket or coffin handle, F. Gaudin, Chain link, wire, A. K. Lovell, Chain, wire, A. K. Lovell, Chair, T. J. Florey, Channel cutting and flap turning machine, G. E. Warren, Charging and drawing apparatus, S. C. Collins, Chuck, lathe, C. F. Williams, Churn, L. A. Baxter, Churn, J. Ranz, Chute, J. W. Haywood, Cigar lighting apparatus, electric, C. J. Brosnan, Circuit clover, time, W. Rausch, Cloth cutter, G. Nopper, Clothes drier, Verbeke & Wright, Clothes line reel, H. Huebner, Cock, ball, W. H. Rave, Cock or valve for casks, barrels, etc., C. Hutchinson, Coffee extract, making concentrated, H. Eschwege, Coffin, L. G. Kregel, Cold sorting machine, J. J. Hoey, Condenser, steam, F. W. Wolf, Conveying and loading crops or merchandise, machine for, C. Crozier, Cooling apparatus, C. A. Schneible, Cooling apparatus, K. S. Lemstrom, Copying, composition of matter for, R. J. Kirkland, Cot, folding, C. J. Follett, Cotton cleaning and mattress stuffing machine, C. V. White, reissue, 11,944, Crank, E. V. Moore, Crate, fruit or vegetable, R. K. Pollock, Cream tempering, churning, and butter making machine, Virtue & Hagedorn, Crib, child's, G. W. Gerding, Crushing mill, T. L. & T. J. Sturtevant, Cultivator, G. B. Todd, Cultivator fertilizer distributor attachment, H. B. Williams, Cultivator, planter, and fertilizer distributor, comb, J. West, Cultivator, straddle row, N. S. Barger, Curbing device, grave, F. C. Rheubottom, Current protector, strong, Seelye & Silet, Current transmission, alternate, W. M. Morley, Currycomb, R. J. Edwards, Cutter head, C. Seymour, Cutting pieces of uniform lengths from rods or bars, machine for, F. H. Pierpont, Cycle, motor, E. F. Gottschalk, (now E. F. Stratton), Damper, fireplace, R. Jahn, Decolorizing charcoal and filtering compounds, making, C. C. Barnes, Dental articulator, C. Huberty, Detergent, Shehadi & Paris, Dish cleaner, D. W. Hawkes, Display cabinet, G. W. Barnett, Dividing engine, A. L. De Leeuw, Door closure and screen, combined, L. C. Herdich, Double acting band brake, H. A. Tuttle, Draft equalizer, G. H. Krueger, Draft equalizer, H. C. Burk, Drawer lock, J. T. Hicks, Drawings, device for coloring, C. W. A. Koelbeck, Drier car, E. H. & F. E. Frey, Drill attachment, J. Burgh, Drill holder, W. D. Bearwin, Drinking fountain for stock or poultry, A. J. Goodrich, Driving mechanism, J. N. Wright, Dye and making same, brown anthracene, S. E. Simon, Easel support, A. B. Murray, Electric controller, G. J. Scott, Electric currents, distribution of, E. Arnold et al., Electric currents, liquid interrupter for, J. O. Heinze, Jr., Electric cut off for emergencies, J. H. Johnson, Electric furnace, J. H. Morley, Electric furnace, A. Simon, Electric meter, J. Cauderay, Electric transfer apparatus, H. H. Porter, Jr., Electric wire conduit, E. D. Page, Electric wiring, rosette for, J. H. Crampton, Electrical resistance, Bachmann & Vogt, Electrodes, making storage battery, L. Paget, Elevator hatches, automatic catch for, F. T. Martin, Engine, See Dividing Engine.

Table of inventions including: Engine, H. J. Bell, Engine feed mechanism, gasoline or like, C. R. Greuter, Engine speed regulator, explosive, F. B. Stearns, Engine stop mechanism, J. H. Cary, Envelop and letter sheet, combination, A. Collins, Eye tester, pocket, H. D. Reese, Eyes, apparatus for testing the strength and relative action of the extraneous muscles of the, R. N. Jhonquest, Faucet, J. A. Wight, Feed water heater, A. S. Mann, Feed water regulator, G. U. Merrill, Feeder, boiler water, S. D. Mott, Fence post, W. C. Zickfoose, Fire escape, L. R. Johnson, Fishing reel, W. Shakespear, Jr., Fishing rod, W. H. Booth, Flooring jack, adjustable, C. S. Losie, Flue or pipe cutter, Boyd & Gable, Fly trap, W. Fritsch et al., Forceps, D. F. Bowersox, Funnel, H. Katz, Furnace, W. P. Westes, Game, H. Procopio, Gang plank, W. E. Uphoff, Garment fastener, A. J. Bradley, Gas and air mixer, B. Murray, Gas compressing apparatus, W. T. Sugg, Gas generator, acetylene, P. E. Ward, Gas generator, acetylene, L. A. Boyer, Gas generator, acetylene, T. A. Bryan, Gas governor, automatic, H. H. Klayer, Gas meter, H. Schofield, Gas producer, R. L. Morgan, Gate, T. J. Alsop, Gate, W. H. Thayer, Gear coupling, universal, J. D. Artz, Gear generating cutters, machine for grinding, E. R. Fellows, Gear, variable speed, Ough & Waddell, Glass articles, machine for the manufacture of pressed, G. H. Gray, Glassware, apparatus for manufacturing articles, Gilliner, Glassware into and through annealing ovens, apparatus for conveying, Bridgewater & Halsey, Glove, I. J. Bradshaw, Golf apparatus, E. Crowe, Golf club bag support, J. P. Goodbun, Governor, pressure, D. Donohue, Governor, speed, F. H. Cheyne, Grain separator, W. Currier, Grater, vegetable, J. F. Rote, Hammer, power, M. Erickson, Handcuff, L. F. Malby, Hand protector, R. A. Ritchie, Handle, See Casket or Coffin Handle, Harness, O'Leary & McCarty, Harness ornament, R. C. Beecher, Harrow and cultivator, combination, A. A. Billingslea, Hat bodies, apparatus for treating felt, C. E. Keator, Hat trim curling machine, R. G. & G. Segschneider, Hats, manufacture of felt, C. E. Keator, Hay or cotton press, R. Hamilton, Heating apparatus, W. Dawson, Heating system, steam, J. A. Trane, Heel plate, selvaige, T. D. Wilmarth, Heel compressing machine, D. C. Beck, Hinge, carriage, Hausfeld, Hinge, W. Gossett, Hog dressing rack, M. Voigt, Horseshoe, adjustable, G. S. Vogt, Hydraulic press, A. H. Ketcham, Ice perforator, shaved, E. G. De Ry, Impact motor, C. Hahn, Inhaler, W. B. Dewees, Initiating apparatus, C. B. Post, Injector, hypodermic, W. M. Haynes, Insulating support for electric wires, R. G. Hemingray, Invalid lifting and moving device, H. Sommerfeld, Knob, alarm door, F. J. Gustine, Knob attachment, H. C. Pruce, Label holder, F. B. & M. S. Grove, Lamp, miner's, M. F. Hammond, Lamps, hanger board for series arc, E. O. Lunin, Leather grain, J. K. Beck, Leather stretching device, J. Caldwell, Lens grinding machine, E. M. Long, Letter box, post office, P. Schultz, Letter sheet and envelop, combined, A. Collins, Level, extensible, Smiedy & Zern, Lever, lifting, L. E. Waterman, Life preserver, E. S. Maguin, Life preserver, F. Krajca, Lifting device for hanged articles, M. C. Miller, Lifting jack, W. H. Cox, Load retaining apparatus, vehicle, W. M. Cain, Loom shuttle, D. Sussman, Loom warp stop detector, H. Wyman, Loom warp stop motion, A. E. Stafford, Low or high water alarm, R. C. Blake, Magnetic separator, P. J. Greenway, Mail bag crane, W. W. Shea, Mail bag holder and deliverer, A. J. Pennington, Mail box attachment, J. L. Plank, Malt turning apparatus, green, F. Singer, Manganese, preparing an acetylene preparation of, T. Macalpine, Mangle, steam, Casper & Gerdner, Manual motor, G. A. Thode, Manure gatherer and loader, J. Peterson, Marking device, W. R. Morse, Massage glove, R. E. Saffold, Match box friction attachment, C. J. W. James, Measuring instrument, E. Hill, Metal rods, die for drawing, G. E. Thackray, Metal working machine attachment, R. B. Perrott, Metals, apparatus for electrocoppering, E. L. Deselle, Metals, minerals, ores, etc. apparatus for locating, A. F. McClatchey, Micrometer gage, telescopic, T. Wiedemann, Microscopes, mechanical stage for, A. F. Martins, Mill, See Crushing Mill, Milling machine, subaqueous, S. C. Monberg, Mixing machine, portable mortar, concrete, or like, A. Wilcox, Mowing machine, G. W. Hinchman, Music box, G. Varrelman, Music spoon, perforated, H. H. Mansfield, Musical instruments, mechanism for operating muffers on, W. C. Rosenbury, Musical instruments, pneumatic key striker for, H. M. Salyer, Nail coating, J. A. Henderson, Nail puller, J. B. Salo, Needle making machine, E. Fontaine, Nut lock, W. N. Mecklan, Nut lock, Beach & Baker, Oiling overhead cables, means for, C. Larsen, Ore separator, J. Conley, Pail holder, milk, W. S. Sherd, Paper box, circular or elliptical knockdown, G. V. Russel, Paper, copying, J. F. Lester, Paper folding machine, H. K. King, Paper folding machine, H. F. Bechman, Paper producing, J. Wezel, Peeling machine, potato, J. Blache, Pen, fountain marking, F. X. Koempel, Perforating machine for tapes of paper, etc., F. G. Creed, Phonograph, F. Myers, Photographic vignetting apparatus, W. Anderson, Pianos, mechanism for adjusting music desks on, W. C. Rosenbury, Piles, protecting, E. Nelson, Pipe coupling, N. Wilson, Pipe joint, expansion, Q. N. Evans, Pipe threading machine, B. Borden, Planing machine, J. R. Thomas, Plaque hanger, J. Frenzel, Plow attachment, C. Haynes, Plow, reversible, T. A. Jackson,

Table of inventions including: Plow, stirring, J. Sprecht, Pneumatic despatch tube carrier, A. W. Peersall, Pressing foods, J. F. McLaughlin, Printing lithographic, F. Billing, Printing machine paste fountain, C. F. Read, Printing machine tripping mechanism, cylinder, J. White, Printing press, J. F. Ames, Projectile, A. J. Robertson, Pump, stomach, W. Gerry, Radiator, wrought metal, F. A. Wilmot, Railway, electric, L. Woods, Railway signal, G. W. Harris, Railway, single line, Fisher-Spenser & Brunnles, Railway ties, forming, D. G. Ross, Railways, third rail safety system for electric, Schleichert & Bingham, Razor stropping machine, A. L. Silberstein, Razors, holder for stropping safety, J. A. Butler, Refractory materials, manufacture of, R. J. Fisswell, Refrigerating and ventilating apparatus, O. P. Ostergren, Refrigerating system, car, J. O. Morris, Rein holder, C. P. Uhlmann, Riveting machine, Sellers & Lewis, Rock drill, H. D. Crippen et al., Roll holder, H. McKay, Rolling metal, hotbed for, A. J. Demmler, Roof collar, M. L. McGuire, Rope machine, O. Bucklin, Rotary engine, F. R. Strunk, Rotary engine, H. E. Smallbone, Rotary motor, W. Deiwiks, Router chains of ships, yielding guide roller for, A. May, Sash iron, W. E. Hoyt, Sash cord guide, R. M. Elliott, Sash fastener, E. Schindler, Sash fastener, W. S. James, Saw, W. T. George, Saw, hack, E. B. Fellows, Sawmill carriage offset, A. Cunningham, Saw set, C. Morrill, Saw swage, C. H. Van Auken, Scholar's companion, J. Beery, Screen plate holder, Brawn & Fitzgerald, Screw coupling, J. M. Cox, Screw driver kit, W. J. Smith, Sewing cap, etc., H. W. A. Fette, Seals to envelop device for applying metallic, J. W. Cushman, Sealing cap, vessel, A. A. Low, Sealing means for vessels, A. A. Low, Serums, device for storing and administering, H. F. Prescott, Sewing machine, broom, A. E. Miller, Sewing machine, double zigzag, H. A. Klemm, Sewing machine presser foot holder, J. M. Geis, Sewing machine ruffler, A. Johnson, Sewing machine stitch separating mechanism, H. C. Peters, Shade bracket, adjustable window, A. H. Chellis, Shade roller and curtain pole bracket, combined, J. Joubert, Jr., Shade trimming device, H. C. Chaffee, Shaft coupling and anti-rattler, R. H. Hearn, Shaft support and anti-rattler, combined, G. S. Johnson, Shaft, vehicle, T. J. Waddell, Shaving cup, S. W. Babbitt, Shearing knife, spiral, F. Schletter, Sheep clipping composition, R. Mackill, Ship's port hole, J. D. Hannah, Shoe horn, B. F. Duvall, Show case, C. F. Murray, Show case, fixture, electric, E. A. Lowe, Sifting device, H. C. Cooper, Signature gathering machine, H. L. Roberts, Skirt, L. Gluck, Soda water apparatus, C. A. Geddes, Soda water dispensing apparatus, W. Helmer, Soda water dispensing apparatus, Tufts & Helmer, Sparger, A. E. Hess, Speed changing and reversing gear, H. E. Brown, Spinning spindle, W. F. Draper, Spoke tenoning and cut off machine, C. Seymour, Stacker, hay, J. F. Hazel, Stacker, hay or grain, R. D. McKee, Stall floor, W. F. L. Spengler, Stamp, adjustable hand, J. A. Crandall, Stamp, time, J. G. Hallas, Station indicator, O. B. Thompson, Steam boiler, electrical, C. E. Griffing, Steam engine, G. B. Smith, Steam generator, R. Damonte, Steaming apparatus for the head, dermal, M. J. Fitzgerald, Stone, making artificial, P. J. Prior, Stove, cooking, A. Ohnemus, Sugar, drying, F. Mahoudeau, Suspender safety appliance, A. W. Ready, Suspender attachment, A. Nelson, Swinging chair and crib, combined, G. W. Powell, Tackle block, A. E. Taylor, Telephone apparatus, E. W. Hazazer, Telephone cabinet, E. W. Smith, Telephone circuits, service meter apparatus for, E. C. Robes, Telephone receiver, W. F. Taylor, Telephone switchboard system, F. W. Dunbar, Tension coupling and sound deadener, automatic, Grauel & Gallagher, Thread, device for stripping wax from, J. B. Dobyne, Thread waxing device, J. Keats, Tie fastener, E. F. Priddy, Tile making machine, A. J. Hoban, Time alarm, H. Lewis, Tire, bicycle, B. Broughton, Tire for bicycles, self inflating, C. G. Morgan, Tires to wheels, means for securing elastic, Swinehart & Brydner, Tool holding device, M. Dunn, Torch for lighting gas lamps, Simmance & Abady, Torpedo, marine, G. Ansaldo, Towel cabinet, roller, F. H. Curtis, Trap, See Fly Trap, Trap, C. M. Shafer, Tramping, F. A. Kirscheat, Trolley wire hanger, G. W. Gurten, Trousers former, A. W. Ewers, Truck center plate, car, J. C. Barber, Truck side bearing, J. S. Pearce, Truck side bearing, car, Aglar & Steinbrenner, Trunk, W. Hossfeld, reissue, 11,943, Tube connection, E. S. Leacraft, Tubes, pipes, etc. apparatus for manufacturing, E. Thomson, Tubular ball mill, P. T. Linhard, Tufting board, C. F. Streit, Tufting frame, F. A. Neider, Turpentine hack and shave, J. P. Council, Jr., Twisting machine feed mechanism, P. Hardman, Typewriting and computing machine, combined, H. Marshall, Typewriting machine, W. J. Barron, Typewriting machine, B. C. Stickney, Typewriting machine, Hess & Stoughton, Umbrella, self opening, Schoenberg & Miller, Valve, automatic shut off, N. C. Locke, Vapor burner, incandescent, J. A. Putt, Vehicle anti-rattler, T. Y. Pamplin, Vehicle brake mechanism, W. Winkler, Vehicle driving gear, motor, H. Spurrier, Jr., Vehicle jump seat, G. H. Hutton, Jr., Vehicle motor attachment, road, H. J. Lawson, Vehicle seat, two wheeled, A. P. Millard, Vehicle steering gear, P. H. White, Vehicle wheel, G. S. Lee, Vending machine, coin controlled, W. H. Garland,

Table of inventions including: Vessel floating apparatus, A. S. Debose, Vise, W. E. Sneider, Vise, C. N. Grace, Wagon or other vehicle, J. B. Rhoads, Water, chemical compound for treating, W. F. Eger, Water closet tank, J. J. G. Crosby, Water level in reservoirs, apparatus for maintaining the, G. I. Rockwood, Water meter, E. M. Hackett, Water motor, reciprocating, C. L. Wilkins, Wave motor, M. Gehre, Weather strip for doors, automatic and reversible sheet metal, C. A. Armantrout, Web folding machine, A. V. Walker, Weighing machine, automatic, J. B. Schuman, Wells, automatic casing perforator for deep, E. A. Hardison, Wheel rim finishing machine, automatic, C. Seymour, Wheelbarrow, Cone & Cooper, Wheelbarrow, O. Hoffmann, Wheelbarrow frame, F. J. Cooper, Wheeling machine, bobbin, F. A. Brackett, Winding mechanism for warps or threads, White and Hargreaves, Wood and making the same, waterproofed, H. R. Brinkerhoff, Wrench, G. W. Booser, Yoke, neck, Buzard & Norton,

DESIGNS.

Table of designs including: Book edge protector, C. Chivers, Broom holder member, F. W. Pennergast, Display box, T. F. Curley, Gas vaporizing frame, C. V. Best, Hammer, H. MacDermott, Mustache guard, J. W. Brayman, Sash ventilator, window, S. W. Sherman, Thermometer mounting, G. E. Taylor, Trace fastener, R. H. Berkstresser,

TRADE MARKS.

Table of trade marks including: Bakery products and confectionery, certain named, National Biscuit Co., Butter, Continental Creamery Co., Cellulose, corn, B. G. Krayp, Cloaks and suits, ladies', S. Rothschild & Bro., Coffees, teas, spices, and extracts, W. M. Murray, Corn husking and shredding machines, Rosenthal Husker Co., Dressings, certain named, A. E. Little & Co., Drunkenness, cure for, S. P. Palmer, Dry goods, certain named, A. F. Bornot, Engineers' mill, marine, and other motive power supplies, fittings, and findings, certain named, Eagle Oil and Supply Co., Fabric, certain named, Williams, Brown & Earle, Food preparations, cereal, Eata Malt Food Co., Medicines in powdered form, headache, Eureka Medical Company, Organs, certain named parts or attachments for pipe, Acoline Co., Perfumed lozenges, T. Kerfoot & Co., Powders for gynecological purposes, R. H. Edwy, Pumps and nipples, breast, W. H. Martin, Remedy for certain named diseases, J. S. Finlay, Remedy for diseases of kidneys and bladder, P. Rambo, Scouring powder, Michael Paton Co., Socks, ladies' misses', and children's stockings, gentlemen's, Iowa Knitting Co., Tobacco pouch, Davidson Rubber Co., Toilet and medicinal preparations, certain named, Powers Mfg. Co., Watches, E. Merani, Whisky, Scotch, Edward & John Burke, Limited,

LABELS.

Table of labels including: "Gold Seal," for allspice, Southern Coffee Co., "Gold Seal," for baking powder, Southern Coffee Co., "Gold Seal," for coffee, Southern Coffee Co., "Humming Bird Cream Chewing Kiss," confectionery, Thompson-Pettit Co., "Lanoble," for antiseptic suppositories, I. Neugroschi, "Lightning Yeast," for yeast, Lightning Yeast Co., "Malt-Nut," for food preparations, American Pure Food Co., "Plantation Java Blend," for coffee, Southern Coffee Co.,

PRINTS.

Table of prints including: "George Washington Back No. 606 Congress Playing Cards," for playing cards, United States Playing Card Co., "Standard Malt Extract," for malt extract, Henderson Lithographing Co., "The Favorite of the Farm," for harvest machinery, Milwaukee Harvester Co.,

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. Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list. For terms and further particulars address Munn & Co., 361 Broadway, New York.

NEW BOOKS, ETC.

ELEMENTARY EXPERIMENTAL CHEMISTRY: INORGANIC. By W. F. Watson, A.M. New York: A. S. Barnes & Co. 1901. 12mo. Pp. 320. Price \$1.25.

The author, who is well known to readers of the SCIENTIFIC AMERICAN, has produced a most admirable textbook, one of the best, in fact we have ever seen on the subject. The scheme of illustration can be highly commended. There are twenty full-page plates showing all the apparatus and chemicals used in experiments. This is an entirely new plan. The textbook is intended for students in high schools and junior classes in colleges, as well as for private learners. We think that the book will prove very valuable for the last-named persons. The text is clear, concise and admirably written.

HOW TO BUILD A THREE-HORSE POWER LAUNCH ENGINE. With a Full Set of Working Drawings and Explanatory Text. By E. W. Roberts, M.E. Cincinnati: Gas Engine Publishing Company. 1901. Quarto. Pp. 66. Price \$2.50. Blue prints, \$4 extra.

This book will be warmly welcomed by many amateurs who are desirous of building a launch gas engine. The working drawings are reproduced on a good scale, and blue prints may be obtained of the publishers. The type of engine selected seems to be an excellent one.