

ENGINEERING INVENTIONS.

An alarm for railway trains has been patented by Messrs. George E. Carpenter and Albert F. Tucker, of Jersey City, N. J. Electrical connections are made between each car of the train that the accidental separation of any of the cars will be signaled to the engineer, and also to the caboose, when used on freight trains.

A railway tricycle has been patented by Mr. William Hayes, of Los Angeles, Cal. The invention consists of a trailing wheel free to swing within certain limits, and without flanges, with a seat placed at right angles to the main wheels, the object being to avoid friction of the flanges of the wheels on curves, as well as on straight tracks.

A rail joint has been patented by Messrs. Maria E. Lewis and Carlton A. Dodge, of Orange City, Iowa. The fastening consists of a sectional fishplate, one section being apertured and having inclined recesses or notches, and the other having inclined projections and longitudinal slots with enlargements, a double-headed bolt with one head of greater diameter than the other, and a wedge, with other novel features.

A car coupling has been patented by Messrs. George C. McKitterick, Thomas R. Morgan, and John J. McKitterick, of Jackson, Ohio. The draw-head has a link chamber, and an upper longitudinal slot and groove connected therewith, with other novel details, besides a coupling dog of novel construction, the coupling being also for use with cars having the ordinary pin and link coupling.

A car axle box has been patented by Mr. Stephen R. Stinard, of Pompton, N. J. The principle of the invention is giving a support to oiled waste or similar material quite closely to the axle journal, in such manner that settling or packing will not cause it to leave the journal, but rather to bear all the more closely, to insure constant lubrication without waste of the lubricant.

AGRICULTURAL INVENTIONS.

A combined pulverizer and plow has been patented by Mr. Daniel W. Evans, of Sims, Dakota Ter. Combined with the plow is a series of vertically adjustable colters, with a series of narrow plows extending between the colters, with pulverizing devices between the colters and main plow, and other novel features, to cut the furrow slices into strips, pulverize them, and then turn them under.

A check row corn planter has been patented by Messrs. John F. Scott and Oliver W. Cheenut, of Templeton, Ind. It is so made that the seed-dropping mechanism and the markers will be operated by the revolution of the axle, while the mechanism can be readily thrown out of gear, and the markers readily adjusted, should the cross rows get out of line, so that the planting can be done in accurate check row.

A potato planter has been patented by Mr. Charlie C. Maves, of East Davenport, Iowa. It is a machine in which the mechanism for gathering and depositing the potato seed is carried by an auxiliary frame whose position is easily controlled by means of a lever, and the machine is so constructed that the potatoes may be planted either in hills or drills, and that the space between the hills may be varied, as also the distance between the seed, when the potatoes are planted in drills.

MISCELLANEOUS INVENTIONS.

A sign has been patented by Mr. George H. Kitchen, of New York city. This invention relates to illuminated signs where opal glass is used to form the letters, and glass holl's eyes for ornamenting, and consists in the means of holding the holl's eyes in place in the body of the sign, and in the means of forming the letters with the glass.

A steam generator has been patented by Mr. William F. Crater, of Salamanca, N. Y. It consists of two water tanks placed one above another, connected by pipes and surrounding a fire grate, fire pot, and air feeder, with a peculiar draught arrangement, being simple in construction and designed to generate steam rapidly without using much fuel.

An elevator and perambulator for invalids has been patented by Margaret Hammond, of Port Madison, Washington Territory. It consists of a main frame with wheels, elevating devices, frames or bars with wheels and clamps, and other novel features, whereby a patient can be raised from bed and carried to any part of the house on the arms of the machine, or, by applying the large wheels, can be conveyed a distance or over rough roads.

An article of jewelry has been patented by Mr. Jethro C. Cottle, of New York city. This invention covers an improvement in ornamental pins for neck scarfs, handkerchiefs, etc., embodied in the form of an insect or bird made of gold, silver, or other suitable metal, the feet or claws serving to attach the pin, which is acted on by a concealed spring, the wings serving as levers to overcome the tension of the spring, to separate the claws, to detach the article from clothing.

A gas burner attachment has been patented by Mr. Francis E. Mills, of Pittsburg, Pa. The invention consists in inclosing the broad thin sheet of flame of a burner, for one-third or more of its height, with an oblong or elongated cage, the twosides opposite the flat sides of the flame having small interstitial perforations, through which air is drawn in against the flame, the ends opposite the edges of the flame being closed.

A gate hinge has been patented by Mr. David J. Olinger, of Anson, Tex. The upper hinge may be of any suitable construction permitting the gate to rise slightly on being operated, but the base hinge is made with a dish-like attachment to the post, the hinges of which on either side have to be traveled by a section attached to the gate as the latter is opened or shut, there being also notches on either side of the post attachment which hold the gate in position when fully opened.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

December 14, 1886,

AND EACH BEARING THAT DATE.

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

Table listing inventions with patent numbers and dates. Includes items like Advertising card, Agricultural implement, Air or other gases, automatic hydraulic compressor, Air ventilator, Alarm, Annunciator, Anvil and clamp, Asbestos sheet, Auger, Axle bearings, Axle box, Axle box, car, Axle box, car, S. R. Stinard, Ball press, Balloon, Ballot boxes, Batteries, Bear trap, Beef press, Beer apparatus, Bell door, Blender, Bit, Bit holder, Blacking stand, Blower, Blowing engine, Board, Boiler, Wash boiler, Bolt blanks, Book covers, Shrader, Boot, Boot or shoe vamp, Booter shoe, Boots, Boots or shoes, Boring machine, Bottle stopper, Bottle washer, Box, Box, M. Marx, Bracket, Brake, Sewing machine brake, Brick machine, Bridgema, Bridle bit, Bridle bit, G. M. Hubbard, Bucket, Buckle, Bullet mould, Burner, Butter box, Butterworker, Buttoner, Button, collar or cuff.

Table listing inventions with patent numbers and dates. Includes items like Button fasteners, Buttonhole stitching machines, Can watering machine, Candy, Christmas tree, Cane, stripping and cleaning saw, Car coupling, Car coupling, W. H. Kaltenbeck, Car coupling, G. C. McKitterick, Car couplings, Car platform, Car seat, Car wheel, Peckham & Lames, Cars, grip for traction, Carbon conductors, Card, fancy show, Card for playing games, Carriage and wagon jack, Carriage Jack, Cartridge extractor, Cartridge loading machine, Cartridge pack, Cash register, Casting, core for, Chain, Chair, Chart, anatomical, Cheese cutting device, Cheese making apparatus, Chopper, Chuck lathe, Cigar bunching machine, Cigar machine, Clamp, See Floor clamp, Rubber dam clamp, Clasp, See Bracelet clasp, Cleaner, See Horae and cattle cleaner, Clock, B. F. Flint, Clock, calendar, S. W. Ralph, Clocks, circuit breaker for electric, Clod crusher, pulverizer, and seeder, Closet, See Water closet, Clutch, friction, E. L. Street, Clutch, friction, E. Salomon, Cock, stop and waste, Coffee pots, float and percolator, Coffin, Collar, horse, I. Bergman, Commode, arm, C. U. Dell, Condenser for pyroigneous acid, Cooker, steam, H. P. Roberts, Copper matte, treating and desilverizing, Corn sheller, Corset fasteners, Cotton gins, combined feeder and hopper for, Cotton chopper, Cotton press, A. D. Thymas, Coupling, See Car coupling, Thill coupling, Vehicle coupling, Crusher, See Clod crusher, Cuff fastener, T. E. Barrow, Cuff fastener, S. P. Willcox, Cuff holder, Cultivator, D. M. Bourne, Cultivator, G. W. Brown, Cultivator, J. F. Smith, Curtain fixture, C. Woblers, Cutting and forming machine, rotary, Cyclometer, Dam, subterranean water collecting, Dumpers, apparatus for opening and closing, Dandy roll, Direct-acting engine, Dish washer, Ditching and grading machine, Door check, Doors, device for lifting, Door plate, Door spring, Draught equalizer, Drill stock, Drying apparatus, Dyeing apparatus, Easel, plaque, Eaves trough and girder therefor, Electric circuits, resistance block for, Electric out-out, Electric lighting systems, distributing appliance for, Electric machine regulator, dynamo, Electric machines, armature for dynamo, Electric motor, Electrical conductor, Electrical conduit, underground, Electrical distribution, apparatus for, Electricity by means of secondary batteries, apparatus for the distribution of, Elevator cars, safety attachment for, End gate, End gate, wagon, Engine, See Blowing engine, Direct-acting engine, Pumping engine, Engines, apparatus for stopping, Explosives, composition for neutralizing fumes of, Extractor, See Cartridge extractor, Eyeglasses, Fauret, bottle, Feed water heater, Feed water heater, H. Wilson, Feed water regulator, Feeder, time stock, Fence, M. J. Gordon, Fence coupler, wire, Fence, hood, G. W. Martin, Fence gate, wire, Fence machine, wire, Fender, B. V. Butts, Fibers from leaves, etc., machine for obtaining, Filter, Firearm, magazine, Firearm, magazine, W. Mason, Fire escape, Floor clamp, Flue cap, Fine cleaner, adjustable steam, Flooding tank, Foot power stand, C. E. Stevens, Frame, See Lantern frame.