

**No. 32,369. Car Coupling.** (*Attelage de chars.*)

John P. Turney and Joseph A. Thomas, Arlington, Oregon, U.S., 23rd September, 1889; 5 years.

*Claim.*—1st. The combination, with the cars of a train, of pneumatic couplings for connecting the cars, and a series of pneumatic tubes corresponding to the couplings and extending to the cab of the engineer, a reservoir for compressed air, and a switch conduit or valve mechanism for directing the air blast through any of said tubes to any one of the couplings, substantially as shown and described. 2nd. The combination, with a series of tubes extending throughout the train, of a face plate A in the cap, having openings through the same connecting with the said tubes, a reservoir for compressed air, a tube c leading from the reservoir to the centre of the face-plate, and a swinging hollow arm or conduit B, having a channel-way b adapted to connect the tube c with any one of the tubes C, substantially as and for the purpose described. 3rd. The pneumatic car coupling, consisting of hooked and slotted draw-bar E, the coupling-head, consisting of face plate D, with hook-shaped guide arms d, the socket ring D', sleeve E' with bulbous end, and bolt E' and spiral spring E', substantially as and for the purpose described. 4th. A car coupling, consisting of a rotary adjustable hook-shaped draw-bar E, and a spring seated coupling head surrounding and loosely connected to the same, substantially as and for the purpose described. 5th. A car coupling, having face plates combined with pneumatic tubes opening through said face plates, the said openings being adapted, as described, to register with those of the next car, and form continuous channels when the cars are coupled, substantially as and for the purpose described. 6th. The combination of a rotary adjustable draw-bar E, having pin or lug i, the sleeve G, with cam groove g and slides h, the guides H, H', spiral spring I, the piston rod J connected to the sleeve G and the piston, and cylinder K, and suitable pipes for transmitting a pneumatic pressure to the said cylinder, substantially as and for the purpose described. 7th. The combination, with the pneumatic car couplings and the series of continuous tubes connecting with the same, of a register or commutator for throwing any one tube into communication with any other tube, substantially as and for the purpose described. 8th. The combination, with the continuous tubes, of the register or commutator consisting of stationary section L, with passage ways l and m, m', through it, the two rotary adjustable heads L', L'', with corresponding passage ways and bevel wheels and the adjustable shaft M, with bevel wheels M', adapted to be thrown alternately into engagement with the bevel-wheels of the two heads, substantially as and for the purpose described. 9th. The combination of the middle section L, of the register having through channels l and terminal channels m, m', the adjustable heads L', L'', tubes N, N' connecting with the terminal channels m, m', and the two cylinders K, K' connecting with the tubes N, N', substantially as and for the purpose described. 10th. The combination of the register L, L' and the communicating tubes, the shaft M, with notched disk M', lever and rods O, O', detent O', sliding block n and curved guide p, substantially as and for the purpose described. 11th. The combination, with a series of longitudinal tubes, and a register or commutator consisting of stationary section L, with passage-ways and movable heads L', L'' connected to the longitudinal tubes, of an adjusting mechanism for rotating said heads, having an indicator disk notched to represent the openings in the heads, and locking mechanism for said disk, substantially as and for the purpose described.

**No. 32,370. Manufacture of Electrical Dry Elements.** (*Fabrication des éléments électriques secs.*)

James L. Morrison, Toronto, Ont. (assignee of Carl Gassner, Jr., Mayence, Germany), 23rd September, 1889; 5 years.

*Claim.*—The production of hydrated peroxide of iron, in galvanic dry elements by chloride of iron, in combination with a chemical body contained in the exciting or agitating mass, or developed therein by the action of the current, which absorbs chlorine from the chloride of iron.

**No. 32,371. Combined Gas Generator and Burner.** (*Générateur et foyer à gaz combinés.*)

Charles Blythe and Charles W. Jones, London, Ont., 23rd September, 1889; 5 years.

*Claim.*—1st. In a gas generator, the partitions D formed in the hollow sections a, substantially as shown and described and for the purpose specified. 2nd. A gas generator, formed in one or more hollow sections a and with partitions D, substantially as shown and described and for the purpose specified. 3rd. An opening E formed in a gas generator, substantially as shown and described and for the purpose specified. 4th. The plug E', having an opening E formed therein, in combination with a gas generator, substantially as shown and described and for the purpose specified. 5th. A gas burner, formed of a lower section a', having openings F surrounding the ignited gas, in combination with an upper section a, having an opening G inclined, or fulcrumed, or funnel-shaped on the under side, and having a recess l on the upper side, and a disk H, substantially as shown and described and for the purpose specified. 6th. The combination of the plug E' with the receptacle L, substantially as shown and described and for the purpose specified. 7th. A combined gas generator and burner, formed of one or more sections a, having partitions D therein, and plugs J, the lower section having an opening E and openings F thereon, and the upper section having an opening G therein, the latter being inclined or funnel-shaped on the under side, and having a recess l on the upper side, in combination with a disk H, substantially as shown and described and for the purpose specified. 8th. The combination of the gas burner with casing K, having openings k' therein, substantially as shown and described and for the purpose specified.

**No. 32,372. Car Coupling.** (*Attelage de chars.*)

Reuben S. Hall, Kalamazoo, Mich., U. S., 23rd September, 1889; 5 years.

*Claim.*—The combination of the internally-recessed draw-bar, the link coupling pin and the spring actuated block for holding up the pin, said block having the main concavity in the end, and the supplemental small concavity below the verticle centre of and above the lower side of the main concavity to receive the loop end of the link, substantially as set forth.

**No. 32,373. Hot Air Radiator in Combination with Hot Air Furnace.** (*Calorifère à air.*)

William J. Copp, Hamilton, Ont., 23rd September, 1889; 5 years.

*Claim.*—The radiator E, having openings I, B, damper C and chamber A, in combination with the dome D, all formed, arranged and combined as shown and described.

**No. 32,374. Tobacco Pipe.** (*Pipe de fumeur.*)

Charles E. Darling and Henry Free, Lewiston, Me., U. S., 23rd September, 1889; 5 years.

*Claim.*—The herein described pipe-bowl, having its interior lined with asbestos, a metal plate located in the bottom thereof, and an interiorly flanged cap or ring located at the mouth thereof, said cap or ring having holes near its inner edge for the reception of pins for securing the said ring or cap to the mouth of the bowl, thereby retaining the asbestos lining in place, substantially as set forth.

**No. 32,375. Automatic Electric Cut-Out.**

(*Interrupteur électrique automatique.*)

The United Electric Improvement Company, Gloucester, N.J., (assignee of Stanley C. C. Currie, Philadelphia, Penn.), U.S., 23rd September, 1889; 15 years.

*Claim.*—1st. An electric cut-out device consisting of two pieces of metal interposed in a circuit, and engaging with, and held by an insulating yoke, and said wires imbedded in an insulating substance susceptible of being melted and immersed in a conducting material in a vessel, and a band circumscribing said vessel, substantially as and for the purposes set forth. 2nd. An electric cut-out device consisting of two wires or pieces of metal interposed in an electric circuit, and supported in or by a block composed of an insulating material and said wires or pieces of metal in engagement with an insulated yoke and imbedded in an insulating substance capable of being fused at a low temperature and immersed in a conducting fluid in a vessel surrounded by a band, substantially as and for the purposes set forth. 3rd. A cut-out device consisting of two pieces of metal interposed in an electric circuit and imbedded in an insulating substance, as paraffine wax, and immersed in a conducting fluid, as mercury, substantially as and for the purposes described. 4th. A cut-out device consisting of two pieces of metal interposed in an electric circuit in engagement with a yoke, and said pieces of metal imbedded in an insulating substance capable of being melted at a lower temperature than will melt said pieces of metal and portions thereof immersed in a conducting fluid in a vessel, and means to prevent said vessel from falling and to allow of the device being readjusted after the circuit is broken, substantially as described. 5th. The combination, with two pieces of metal interposed in a circuit, and a supporting insulated yoke of an insulating substance, and a fluid contained within a vessel, and a supporting yoke, substantially as and for the purposes set forth.

**No. 32,376. Wrench.** (*Cle à écrou.*)

Joseph Potvin, Edmonton, N.W.T., 26th September, 1889; 5 years.

*Claim.*—1st. The combination of the grooved circles A, A and the central block B, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the grooved circles A, A, and the central block B, and the spring catch D, substantially as and for the purpose hereinbefore set forth. 3rd. The combination of the grooved circles A, A, and the central block B, and the spring catch D, and the swinging clasp E, substantially as and for the purpose hereinbefore set forth.

**No. 32,377. Baking Cabinet.**

(*Buffet de cuisine.*)

John E. Merriam, Chesley, Ont., 26th September, 1889; 5 years.

*Claim.*—A baking cabinet consisting of drawers a, b, c, board and lid B, slides E, trap door F, and spice drawers G, all arranged and combined as set forth and shown.

**No. 32,378. Swing (round-about, named "Aerolite").** (*Jeu de baguette.*)

Alexander W. Little, Harvey, N.B., 26th September, 1889; 5 years.

*Claim.*—1st. The combination of the revolving mast A, supporting arms by linked iron rods b, b, etc., and moved by shaft X, substantially as and for the purpose herein set forth. 2nd. The combination of seat E upheld by devices d, d, substantially as and for the purpose herein set forth.