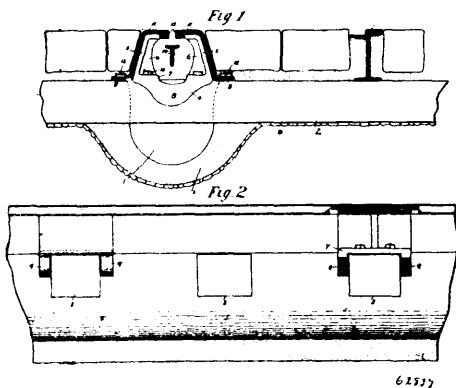


receive a portion of the debris and water directly from the sluice-box and to automatically discharge the same, substantially as and for the purposes described.

No. 62,837. Depressible Rail System for Electric Railways. (*Système de rails à depression pour chemins de fer électrique.*)



William Grunow, Bridgeport, Connecticut, U.S.A., 8th March, 1899; 6 years. (Filed 21st March, 1898.)

Claim.—1st. A subway, consisting of a conduit, beams extending across the conduit, yokes upon the beams, provided with curved arms, and slot rails enclosing the yoke and provided with an attaching flange along one edge thereof and having an engaging rib along the free edge thereof to overlap the extremity of the yoke arms and form a slot. 2nd. A subway consisting of a conduit, beams bridging the conduit, yokes secured upon the beams and provided with clamping jaws extending downwardly upon each side of the beams, and having curved upwardly extending arms, and slot rails enclosing the yokes and provided with an attaching flange along one edge thereof to be connected to said beams and having an engaging rib along the free edge of the same to overlap the extremities of the yoke arms and form a slot. 3rd. In an electric railway system, contact receptacles, a feeder cable passing into the receptacles, a supporting connection or joint overlapping the end portions of the service conductor, provided with means to close the circuit and charge the service conductor. 4th. In an electric railway system, contact receptacle a feeder cable passing into said receptacles, provided with a terminal, a supporting connection or joint overlapping the end portion of the service conductor and means carried by said joint to close the circuit through the terminal and charge the service conductor. 5th. In an electric railway system, contact receptacles, a feeder cable passing into said receptacles, provided with a terminal, a depressible supporting connection or joint overlapping the end portion of the service conductor and means carried by the joint to close the circuit through said terminal and charge the service conductor. 6th. In an electric railway system, contact receptacles, a feeder cable passing into said receptacles provided with a terminal, a depressible supporting connection or joint, overlapping the end portions of the service conductor mounted above said receptacles and means carried by said joint to close the circuit through said terminal and charge the service conductor. 7th. In an electric railway system, contact receptacles, a feeder cable, passing into said receptacles and provided with a terminal, a supporting connection or joint for the end portions of the service conductor, mounted between springs adjacent to receptacles and a separate contact device carried by said joint to charge the said conductor through said terminal. 8th. In an electric railway system, contact receptacles, a feeder cable passing into said receptacles and provided with a terminal, a supporting connection or joint for the end portions of the sectional service conductor, provided with lateral lugs, springs supporting said lugs, and a separate contact device carried by said joint adapted to contact with said terminal and charge the service conductor. 9th. In an electric railway system, contact receptacles, a feeder cable passing into said receptacles and having a feeder terminal, a support provided with lateral lugs mounted above the receptacles, springs supporting said lugs, a service conductor upon the support and a contact device carried lugs upon the support to charge the service conductor when the rail is depressed. 10th. In an electric railway system, contact receptacles, provided with spring compartments and with a tubular projection, a feeder cable passing into the receptacles and having a terminal, a supporting connection or joint for the ends of the ends of the sections of the service conductor having laterally extending lugs, springs in said spring compartment and supporting said lugs, guides for the lugs and springs, a sleeve movably mounted in said projection and supported by lugs on the support, a service conductor upon the support, a contact carried by the sleeve and electrical connection between the contact and the service conductor. 11th. In an electric railway, contact receptacles, having a tubular projection, a feeder cable passing into the receptacles

and having a feeder terminal, a support carrying a service conductor, a sleeve movably mounted within the tubular projection and having a recessed nut engaged by lugs on the support, a contact carried by the sleeve and connections between the same and the service conductor. 12th. In an electric-railway system, contact receptacles, a sheet metal feeder terminal, provided with V-shaped later wing or members, secured upon an insulating block in said receptacles, a feeder cable passing into the receptacles and connected to said terminal, a depressible support adjacent to the receptacles, a service conductor upon said support, a sleeve movably mounted in said receptacles and connected with said support, spring contact plates carried by said sleeve and electrical connections between the same and the service conductor. 13th. In an electric railway system, contact receptacles provided with a terminal having V-shaped members, a feeder cable passing into said receptacle and having connection with said terminal, a depressible support mounted adjacent to the receptacles, a sleeve carried by said support, and provided with spring contact plates adapted to contact with said members of the terminal when the support is depressed, a sectional service conductor upon the support, and separate electrical connections between each section of said conductor and said contact plates to simultaneously charge both sections. 14th. In an electric-railway system, contact receptacles, provided with tubular receptacles, a depressible U-shaped support mounted adjacent to the receptacles and having depending tubular projections adapted to enter said receptacles, springs within said receptacles and extending into the projections, guide bolts passing through the base of the receptacles, the springs and the support and limiting the movement of the latter, a feeder cable passing into said receptacles and having a terminal, a service conductor upon said support and a contact device carried by the support and having electrical connections with the service conductor. 15th. A support for electrical service conductors, consisting of a base, a U-shaped support having laterally extending lugs, springs between the base and the lugs and guide pins or bolts extending through the base, springs and lugs and limiting the movement of the latter. 16th. A support for electrical service conductors, consisting of a base provided with tubular receptacles, a U-shaped support having depending tubular projections adapted to enter said receptacles, springs within the receptacles and extending into the projections and guide pins or bolts passing through the base, springs and support. 17th. A depressing device, consisting of a frame adapted to be secured to the car truck, one or more arms movably mounted within the frame, wheel or wheels journaled in the arm or arms, a guide rod connected with the arm or arms, a spring supported sleeve movably mounted on a guide rod and having outwardly directed trunnions, a bell-crank lever pivoted in the upper portion of the frame and having a bifurcated lower arm adapted to rest upon said trunnions, and means for actuating the upper arm of the bell-crank lever to depress said wheel or wheels. 18th. A depressing device, consisting of a frame having a bifurcated portion provided with vertical slots and a scraper, a bifurcated arm having a guide rod, a wheel journaled in the bifurcated arm and having the axles thereof engaging said vertical slot, a bell-crank lever pivoted to the frame, a spring supported sleeve movably mounted upon said guide rod and provided with trunnions upon which the lower arm of the bell-crank lever bears, and means for actuating the upper arm of the bell-crank lever to depress said wheel. 19th. A depressing device, consisting of the rectangular frame having vertical apertured ears, a bell-crank lever journaled in said ears, bifurcated arms or yokes pivoted in each end of said frame and pivotally connected at their free ends, a guide rod mounted upon the pivotal connection of said arms, a spring supported sleeve movably mounted upon said guide rod and provided with trunnions upon which the lower arm of the bell-crank lever bears a means for actuating the upper arm of the bell-crank lever and wheels carried by said yoke. 20th. A depressing device consisting of a frame adapted to be connected to a car or truck, a current collecting device movably mounted within said frame, a guide rod carried by said current collecting device, a spring supported sleeve movably mounted upon said guide rod and having outwardly directed trunnions, a bell-crank lever pivoted in the upper portion of said frame and provided with a bifurcated arm adapted to engage said trunnions, and means for operating the upper arm of the bell-crank lever to depress the current collecting device. 21st. An electric contact system, consisting of contact receptacles having a tubular projection formed in the cover thereof and being provided with a mercury receiver, connections between the receiver and source of electrical supply, a sleeve movably mounted in tubular projection and having outwardly directed arm, means for supporting said arms, a contact device carried by said sleeve and a depressible rail connected with the contact device and adapted to be charged when depressed. 22nd. An electric contact system consisting of contact receptacles having a tubular projection formed in the cover thereof and being provided with a mercury receiver, connections between the receiver and source of electrical supply, a sleeve movably mounted in said tubular projections and having outwardly directed arms, springs supporting said arms, a contact device carried by said sleeve and a depressible rail connected with the contact device. 23rd. An electric contact system consisting of contact receptacles having an integral tubular projection formed in the cover thereof and being provided with a mercury receiver, connections between the receiver and the source of electrical supply, a sleeve movably mounted in said tubular pro