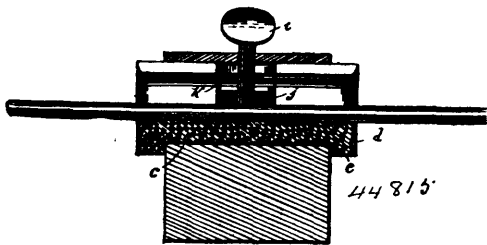


at a point below the normal level of the water in a steam generator, by the introduction of a division or partition forming a steam space (as at A), for the purpose of obtaining a flow or circulation of the water, substantially as hereinbefore described with reference to the accompanying drawings. 2nd. In a steam generator, an arrangement for establishing communication between the steam space under the partition or division (A) referred to in the preceding claiming clause, and the ordinary steam space above the level of the main body of water in the boiler by means of mixing tubes (B) of small diameter, extending to a suitable depth into the lower water space or chamber, and opening at or above the normal level of the main body of water in the upper space or chamber, as and for the purpose hereinbefore described with reference to the accompanying drawings. 3rd. The arrangement and combination of parts constituting the improvements in or connected with steam generators, substantially as hereinbefore described with reference to the accompanying drawings.

No. 44,815. Insulator for Telegraph Wires.

(Isoloir pour les fils télégraphiques.)

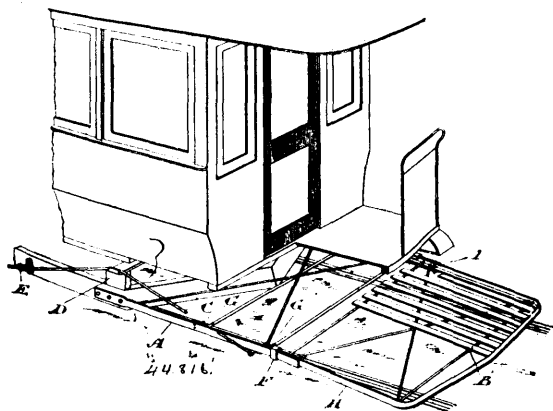


Joseph F. Wright, Colorado Springs, Colorado U.S.A., 4th December, 1893; 6 years.

Claim.—1st. In an insulator for electrical wires, the combination of a non-conducting tube or holder, and a thumb-screw having a non-conducting button on its lower end operating therewith. 2nd. In an insulator for electrical wires, the combination, with the cross-beam of a pole or support, of a non-conducting tube countersunk in the face of said cross-beam and having an opening in its side for the admission of the wire, and a thumb-screw provided with a non-conducting button on its lower end, for securing the wire in place. 3rd. In an insulator for electrical wires, the combination of a non-conducting tube countersunk in the face of the cross-beam to which it is attached, an opening in the side of said tube, a lid hinged to swing over the tube, a thumb-screw working in the lid and in conjunction with the opening in the tube, and a fastening button for the lid. 4th. In combination, with an insulator, a hinged clamp and button, as set forth. 5th. In an insulator for electrical wires, the combination of a tube or holder having a longitudinal opening through its side, and a thumb-screw having a button on its end operating therein, substantially as described.

No. 44,816. Fender for Street Cars.

(Défense pour chars urbains.)

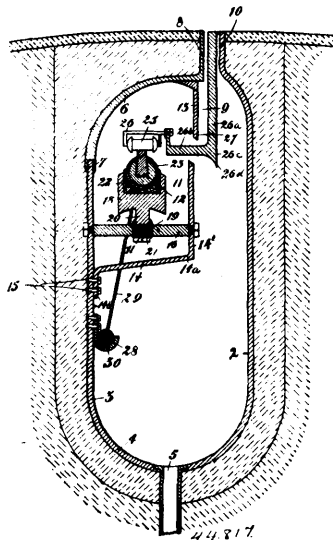


Charles H. Stainton, Toronto, Ontario, Canada, 4th December, 1893; 6 years.

Claim.—1st. A street car fender composed of a guard of suitable width arranged to slide in a stationary frame connected to the car body or truck so that the said guard may be extended beyond the end of the car or slid back beneath it as may be desired, substantially as and for the purpose specified. 2nd. The stationary frame A, having its outer ends turned slightly downwards in combination with the guard B, sliding thereon and the clips F, substantially as

and for the purpose specified. 3rd. The stationary frame A, having its outer ends turned slightly downwards, in combination with the guard B, clips F, and means for holding the guard in its extended position, substantially as and for the purpose specified. 4th. In a street car fender, a guard having its frame formed of a continuous piece of angle iron, the forward end having the angle turned upward sufficiently to present an inclined surface to the ground, substantially as and for the purpose specified. 5th. In a street car fender, a guard having its frame formed of a continuous piece of angle iron, the forward end being slightly V-shaped and having the angle of the iron, of which it is formed, turned upward sufficiently to present an inclined surface to the ground, substantially as and for the purpose specified. 6th. The combination of the stationary frame A, having its outer ends turned slightly downwards, the guard B, clips F, stops G, and means for holding the guard in its extended position, substantially as and for the purpose specified. 7th. In a street car fender, a guard having its frame formed of a continuous piece of angle iron and filled in with longitudinal slats, the forward end having the angle turned upward sufficiently to present an inclined surface to the ground, substantially as and for the purpose specified. 8th. A street car fender, composed of a guard of suitable width arranged to slide in a stationary frame connected to the car body or truck in combination with a truss rod connected to the stationary frame, and to the car body or truck, and means to adjust the said truss rod to raise or lower the outer end of the stationary frame, substantially as and for the purpose specified.

No. 44,817. Underground Conduit for Electric Wires. (Conduit souterrain pour fils ou câbles électriques.)



Phelan McCullough, Toronto, Ontario, Canada, 4th December, 1893; 6 years.

Claim.—1st. In an underground conduit for trolley wires, the combination of a subway, a top for the subway having an opening at or adjacent to one side thereof, and a conductor within the subway located between the said opening and the opposite side of the said subway, substantially as set forth. 2nd. In an underground conduit for trolley wires, the combination of a subway, a top for the subway, said top having an opening into the subway, a compartment within the said subway between the opening and the side of the subway, said compartment having an opening from the subway into the interior thereof, and a conductor within the compartment substantially as set forth. 3rd. In an underground conduit for trolley wires, the combination of a subway, a top for the subway, said top having an opening into the subway, a downwardly projecting flange from the underside of the top, located between the said opening and opposite side of the subway, and a conductor in the subway between the flange and the said opposite side, substantially as set forth. 4th. In an underground conduit for trolley wires, the combination of a subway, a top for the subway, having an opening at or adjacent to one side thereof, a conductor within the subway between the side opening and said side, and an insulator of solidified sulphur for said conductor, substantially as set forth. 5th. In an underground conduit for trolley wires, the combination of a subway, a cover for the subway, said cover having an opening into the subway at or near one side thereof, a compartment within the subway between the opening and the opposite side of the subway, a conductor within the compartment and insulated supports for the conductor, substantially as set forth. 6th. In an underground conduit for trolley wires, the combination of a subway, a cover for the subway, said cover having an opening into the subway at or near one side thereof, a downwardly projecting flange