No. 873,017. PATENTED DEC. 10, 1907.

W. G. CAREY.

TROLLEY WIRE EAR.

APPLICATION FILED FEB. 21, 1907.

Fig. 1.

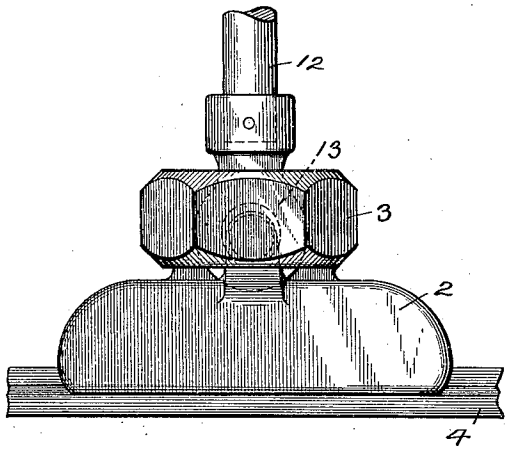


Fig. 2.

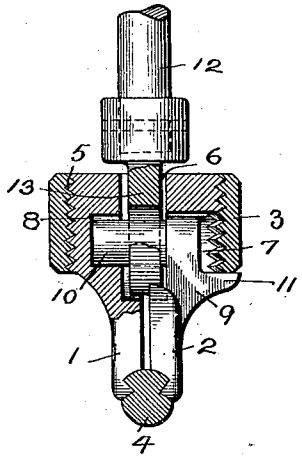
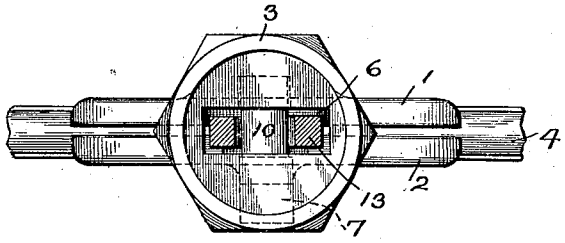


Fig. 3.



WITNESSES.

W. Ray Taylor.

J. Ellis Glen

INVENTOR

WILLIAM G. CAREY.

by Albert G. Davis

Atty.

UNITED STATES PATENT OFFICE.

WILLIAM G. CAREY, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

TROLLEY-WIRE EAR.

No. 873,017. Specification of Letters Patent. Patented Dec. 10, 1907.

Application filed February 21, 1907. Serial No. 358,533.

To all whom it may concern:

Be it known that I, WILLIAM G. CAREY, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Trolley-Wire Ears, of which the following is a specification.

The present invention relates to electric railways and more especially to the suspension of overhead trolley wires.

As is well known, trolley wires are made of hard drawn copper with uniform dimensions throughout their entire length, and in order to suspend them without obstructing their lower or contact surface, it is customary to attach ears to their upper surfaces at desired intervals by means of solder or by mechanical clamping means.

The object of my invention is to provide an efficient and simple mechanical clamping ear which may be easily applied or adjusted with reference to the trolley wire and readily connected to or disconnected from the part by which it is suspended.

In the drawing accompanying and forming a part of this specification, I have shown in Figure 1 a side elevation of a mechanical clamping ear embodying one form of my invention; Fig. 2 is a part end elevation and part cross-section of the same; and Fig. 3 is a top plan view thereof.

The ear comprises two jaw members 1 and 2 and a clamping member 3 by which the jaws are forced into and held in fixed relation to the trolley wire 4.

The larger or left-hand jaw member 1 has a cylindrical upper end provided with a peripheral thread 5. Extending vertically through the cylindrical end is a rectangular recess 6 with its longer dimension parallel to the jaw part. An inverted U-shaped slot 7 is cut through the lower half of the cylindrical end at right angles to the recess 6, and a circular recess 8 is formed in the wall of the recess 6 opposite the slot 7.

The smaller or right-hand jaw member 2 has at its upper edge an integral bracket 9 adapted to freely enter the U-shaped slot 7 in the other jaw member, and provided on its inner side with a cylindrical projection 10 adapted to freely enter the circular recess 8 and on its outer side with a horizontal projection or ledge 11.

The clamping member 3 consists of a nut adapted to be screwed downwardly on the thread 5 of the larger jaw member so that its lower surface engages and depresses the ledge 11 of the smaller jaw member which, on account of its projection 10 being fulcrumed in the recess 8 of the larger jaw member, swings inwardly at its lower end to grip the trolley wire 4 between the jaws.

The support for the ear consists of a rod or other device 12 provided at its lower end with an eye piece 13 adapted to enter the vertical recess 6 in the larger jaw member, and it is connected thereto by passing the cylindrical projection 10 of the smaller jaw member through its eye in assembling the jaw members.

I do not desire to restrict myself to the particular form or arrangement of parts herein shown and described, since it is apparent that they may be changed and modified without departing from my invention.

What I claim as new and desire to secure by Letters Patent of the United States, is,—

1. An ear for trolley wires comprising a jaw member having a projection at its upper side provided with vertical and transverse recesses, a supporting member having an eye located in said vertical recess, a second jaw member provided with a projection extending through said eye and engaging the wall of said transverse recess, and means for forcing said jaw members toward each other.

2. An ear for trolley wires comprising a jaw member having at its upper side a projection provided with vertical and horizontal recesses, a supporting member having an eye located in said vertical recess, a second jaw member having at its upper edge a bracket provided on the inner side thereof with a cylindrical projection extending through said eye and engaging the wall of said horizontal recess, and means for forcing said jaw members toward each other.

3. An ear for trolley wires comprising a jaw member having at its upper side a cylindrical projection provided with a peripheral

screw thread and vertical and horizontal recesses, a supporting member having an eye located in said vertical recess, a second jaw member having a projection extending through said eye and engaging the wall of said transverse recess, and a nut mounted on said peripheral screw thread and adapted to force said jaw members toward each other.

In witness whereof, I have hereunto set my hand this 19th day of February, 1907.

WILLIAM G. CAREY.

Witnesses:
HELEN ORFORD,
BENJAMIN B. HULL.