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J. P. L. MCGIVERN
TROLLEY CONDUCTOR HANGER
Filed Feb. 26, 1921

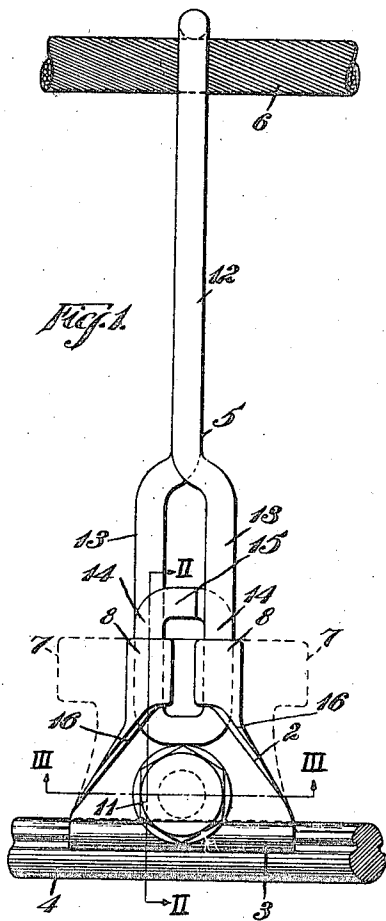


Fig. 2.

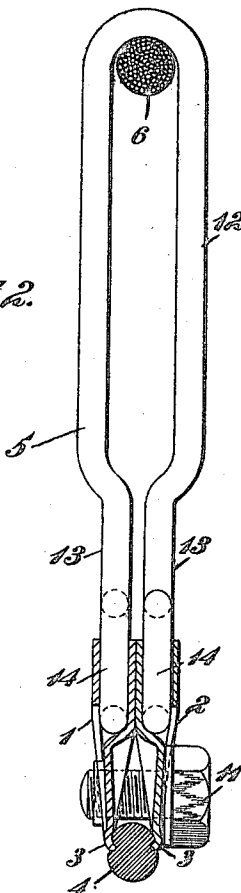


Fig. 3.

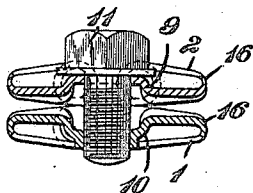
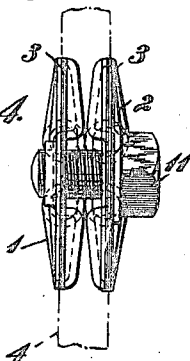


Fig. 4.



WITNESSES:

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TROLLEY-CONDUCTOR HANGER.

Application filed February 26, 1921. Serial No. 448,103.

To all whom it may concern:

Be it known that I, JAMES P. L. McGIVERN, a citizen of the United States, and a resident of Wilkesburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Trolley-Conductor Hangers, of which the following is a specification.

My invention relates to conductor-supporting devices and particularly to devices for supporting trolley conductors.

One object of my invention is to provide a device of the above indicated character that shall be simple and durable in construction, economical in manufacture and effective in operation.

Another object of my invention is to provide a pressed-metal, conductor-gripping jaw member having a portion formed to substantially tubular shape for the reception of a hanger rod that is laterally bent at one end to prevent its withdrawal from the tubular portion.

Another object of my invention is to provide a pair of co-operating, conductor-gripping jaw members and a hanger rod of substantially inverted U-shape having its lower ends reversely bent and disposed in planes at substantially right angles to the plane of the looped or closed portion of the rod for rigid attachment to the jaw members.

In practicing my invention, I provide a pair of relatively thin sheet metal jaw members that, in one preliminary stage of construction, may each be of substantially flat T-shape having a relatively wide middle leg. The latter is pressed to provide a longitudinal groove or conductor-gripping jaw portion along its bottom edge. The opposite ends of the cross portion of the T are reversely rolled or bent on the outside of the jaws to form substantially parallel tubular portions. A hanger rod of substantially inverted U-shape has each of its lower ends bent to provide substantially parallel portions disposed in the tubular portions of one of the jaw members. The jaw members are secured in position on a conductor by a bolt or screw that extends transversely there-through.

Figure 1 of the accompanying drawings is a side view of a conductor supporting device constructed in accordance with my in-

vention, showing portions of a messenger cable and a conductor with which it may be associated and a dotted outline of one of the jaw members in a preliminary stage of construction.

Fig. 2 is a view, partially in elevation and partially in section, taken at right angles to Fig. 1.

Fig. 3 is a view taken along the line III—III of Fig. 1 and

Fig. 4 is a bottom view of the device as shown in Fig. 2 with the supporting conductor indicated in broken lines for clearness.

A device constructed in accordance with my invention comprises, in general, a pair of complementary pressed-metal ears or jaw members 1 and 2, having lower edge portions 3 for gripping a trolley conductor 4 in a usual manner, and a hanger rod 5 of substantially inverted U-shape through the upper portion of which a messenger cable 6 extends.

The jaw members 1 and 2 may be initially cut from flat sheet metal to substantially T-shape, as indicated by the dotted outline of Fig. 1, each having a relatively wide middle leg across the bottom of which the portions 3 are formed, as by pressing, and portions 7 constituting the cross of the T that are, afterwards, bent or rolled to form substantially parallel tubular sockets or portions 8. Raised portions 9 and 10, the latter of which may be internally screw threaded, are provided at intermediate portions of the jaw members 2 and 1, respectively, for the reception of a screw or bolt 11 that is adapted to hold the jaw members in position on the conductor 4.

The rod 5, having its upper portion 12 in a plane substantially at right angles to the conductor 4 and the cable 6, has lower end portions 13 that are reversely bent with respect to the longitudinal axis of the rod and are also bent into parallel planes at substantially right angles to the plane of the portion 12. This construction provides each of the end portions 13 with two sections 14 for disposition in the tubular portions 8 that are formed by being bent around the sections 14 after the latter are placed in position. The portions 13 of the rod 5, while similar, are oppositely disposed with respect

to the longitudinal axis of the conductor 6 and have oppositely extending extreme-end portions 15.

The portions 3, 9, 10 and turned edges 16, that extend between the portions 8 and the ends of the portions 3, serve as reinforcing ribs or means whereby the relatively thin material of the jaw members 2 is rendered very strong.

The device is light in weight, is economical in manufacture and to transport, is capable of ready manipulation and, at the same time, is durable and effective in operation.

While I have shown and described a particular form of my invention, changes may be effected therein without departing from the spirit and scope thereof, as set forth in the appended claims.

I claim as my invention:—

1. A conductor-supporting device comprising a plurality of conductor-gripping jaw members, each having a plurality of hanger-receiving sockets thereon, and a hanger member having an end thereof extending through said sockets and having a bent portion to prevent the withdrawal of the hanger member from said sockets.

2. A conductor-supporting device comprising a plurality of conductor-gripping jaw members, each having a plurality of hanger-receiving portions, and a hanger member having one end twisted through two of said portions to prevent withdrawal therefrom.

3. A conductor-supporting device comprising a plurality of relatively-thin metal, conductor-gripping jaw members each having a plurality of integral hanger-receiving socket portions, and a hanger rod extending through said sockets and having a laterally bent portion to prevent withdrawal therefrom.

4. A conductor-supporting device comprising a plurality of pressed-metal, conductor-gripping jaw members, having an integral portion bent to substantially tubular form, and a hanger rod extending through said portion and having a bent end to prevent withdrawal from said portion.

5. A conductor-supporting device comprising a pair of complementary, pressed-metal, conductor-gripping jaw members each having an integral portion bent to substantially tubular form, and a hanger rod of substantially inverted U-shape having one end secured in each of said tubular portions.

6. A conductor-supporting device comprising a pair of complementary, pressed-metal, conductor-gripping jaw members each having an integral portion bent to substantially tubular form, and a hanger rod of substantially inverted U-shape having one end in each of said tubular portions and shaped to prevent withdrawal therefrom.

7. A conductor-supporting device comprising a pair of complementary, pressed-

metal, conductor-gripping jaw members each having an integral portion bent to substantially tubular form, and a hanger rod of substantially inverted U-shape having one end in each of said tubular portions and laterally bent to prevent withdrawal therefrom.

8. A conductor-supporting device comprising a plurality of pressed-metal, conductor-gripping jaw members each having a pair of integral portions bent to substantially tubular form and a hanger rod having a portion secured in each of said tubular portions.

9. A conductor-supporting device comprising a plurality of pressed-metal, conductor-gripping jaw members each having a pair of integral portions bent to substantially tubular form and disposed in substantially parallel relation, and a hanger rod having a reversely bent portion extending through both of said tubular portions.

10. A conductor-supporting device comprising a pair of complementary, pressed-metal, conductor-gripping jaw members each having a pair of integral portions bent to substantially tubular form, and a hanger rod of substantially inverted U-shape having reversely bent ends each of which extends through each of the tubular portions.

11. A conductor-supporting device comprising a pair of conductor-gripping jaw members and a hanger rod of substantially inverted U-shape having reversely bent lower ends disposed in planes at substantially right angles to the plane of the looped portion of the rod and secured directly to the jaw members.

12. In a conductor-supporting device, the combination with a messenger cable and a conductor, of a pair of conductor-gripping jaw members each having a plurality of integral bent portions, and a hanger rod of substantially inverted U-shape having its closed or looped end disposed around the messenger cable and its free ends each bent to provide a relatively wide portion for attachment to two of the bent portions of said jaw members.

13. A conductor-supporting device comprising a pair of pressed-metal conductor-gripping ears, one of which is provided with an intermediate raised portion for the reception of a holding member and a plurality of end flange portions, and a holding member for securing said ears together.

14. A conductor-supporting device comprising a pair of pressed-metal conductor-gripping ears mounted back-to-back and having a plurality of outwardly projecting reinforcing ribs or raised portions at their ends.

15. A conductor-supporting device comprising a pair of pressed-metal conductor-

gripping ears having outwardly turned or raised edge flanges for reinforcing the same.

16. A conductor-supporting device comprising a pair of conductor-gripping ears of relatively thin metal, one of which is provided with a pressed lower conductor-gripping edge, an intermediate apertured raised portion for the reception of a holding member and for reinforcing the ear, an upper

portion for the reception of a hanger, reinforcing edges extending between said upper portion and said lower edge, a holding member for holding the ears in operative position and a hanger for supporting the device.

In testimony whereof, I have hereunto subscribed my name this 21st day of February, 1921.

JAMES P. L. McGIVERN.