

(No Model.)

H. C. WIRT.

SUPPORT OR HANGER FOR TROLLEY WIRES.

No. 438,211.

Patented Oct. 14, 1890.

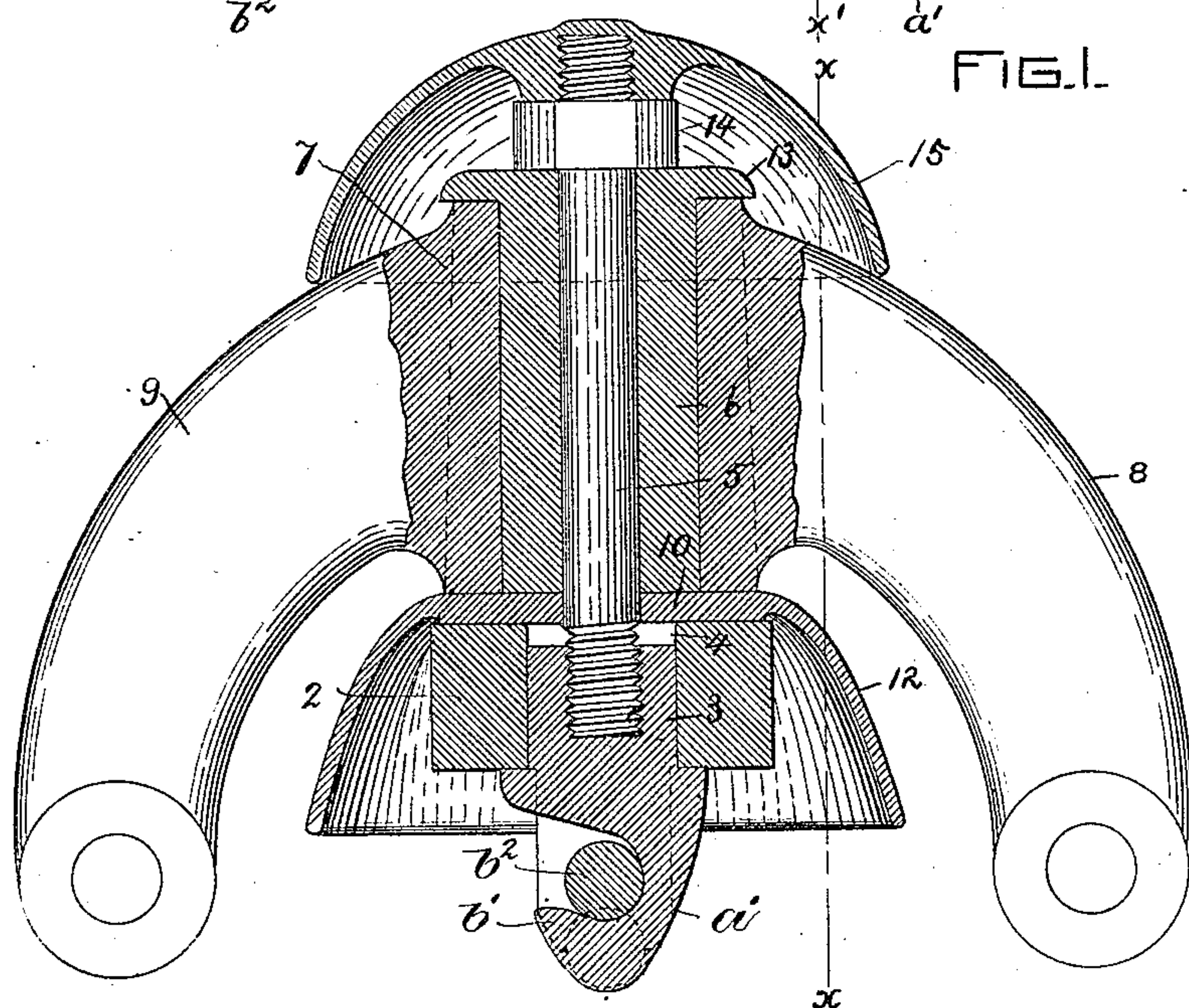
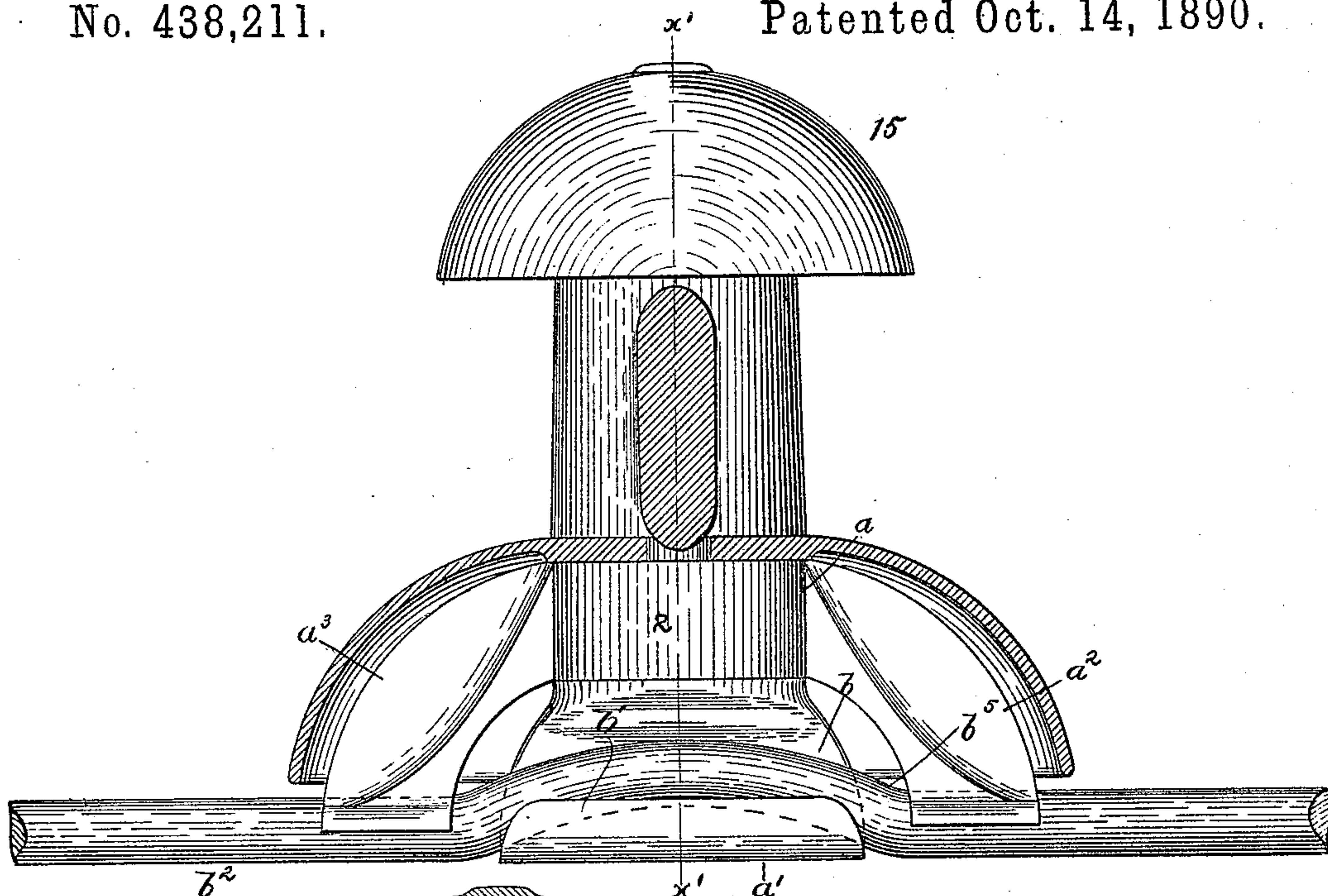


FIG. 2.

WITNESSES

Edgar A. Godden  
Frederick L. Emery

INVENTOR

Herbert C. Wirt,  
by Crosby & Gregory  
Attys



# UNITED STATES PATENT OFFICE.

HERBERT C. WIRT, OF BOSTON, MASSACHUSETTS.

## SUPPORT OR HANGER FOR TROLLEY-WIRES.

SPECIFICATION forming part of Letters Patent No. 438,211, dated October 14, 1890.

Application filed March 12, 1890. Serial No. 343,630. (No model.)

*To all whom it may concern:*

Be it known that I, HERBERT C. WIRT, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Supports or Hangers for Trolley-Wires, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention relates to a support or hanger for trolley-wires, and has for its object to provide a simple, strong, and efficient support or hanger by which the trolley-wire may be held suspended without the use of solder.

15 My invention in a support or hanger for wires consists of two members, one member being provided with a hub having an opening and provided with arms extended therefrom, and the other member having a boss or projection to extend up into said opening and provided with a groove or channel to receive the conductor, substantially as will be described.

25 Other features of my invention will be pointed out in the claims at the end of this specification.

Figure 1 is a side elevation and section of a trolley-wire and its hanger or support embodying my invention, the section being taken on line  $xx$ , Fig. 2; and Fig. 2, a transverse section of the hanger on line  $x'x'$ , Fig. 1.

30 My improved trolley-wire support or hanger consists of two parts or members  $aa'$ , of metal or other suitable material capable of withstanding strain. The part or member  $a$  is made substantially arch-shaped, and, as shown in Fig. 1, is composed of a central hub 2, from the opposite sides of which are extended arms  $a^2 a^3$ , provided, as shown in Fig. 1, with a cylindrical groove on their under side. The part or member  $a'$  is made so as to substantially fit in the space between the arms  $a^2 a^3$ , and is provided on one side with a longitudinal groove or channel  $b$ , the said groove or channel being formed in the part  $a'$  above its bottom so as to leave a lip  $b'$  partially surrounding the trolley-wire  $b^2$  when the latter is laid in the said groove.

45 As shown in Figs. 1 and 2, the member  $a'$  is provided with a boss 3, extended up into an opening 4 in the hub 2, and the said boss is provided, as shown, with a threaded socket

or opening adapted to receive the threaded end of a bolt or rod 5, which, as shown in Fig. 2, is extended up through a sleeve 6 of insulating material fitted into an opening or hole in a metallic casting 7, having arms 8 9, to which the usual span-wire (not shown) is secured.

The member  $a$  of the insulator is separated from the casting 7, as herein shown, by a washer 10, provided, as herein shown, with a circular flange 12, forming a hood, and the insulating-sleeve 6 is provided at its upper end with an annular flange 13. The rod 5 beyond the sleeve 6 is provided with a collar, shown as a nut 14.

The members  $aa'$  of the insulator may be secured to the casting 7 by screwing the rod 5 into the threaded socket of the boss 3 of the member  $a'$ . As the rod 5 is screwed into its socket, the trolley-wire lying in the groove or channel  $b$  is crimped or bent upward, as at  $b^5$ , Fig. 1, until the lower edge or surface of the member  $a'$  is substantially flush or on a line with the bottom or under surface of that portion of the trolley-wire between the hangers.

The insulating-sleeve 6 is preferably protected by a cover or hood 15 of insulating material screwed upon the bolt 5.

By means of my improved hanger or support the trolley-wire is firmly supported or secured in operative position without the use of solder, which in practice has been found to be a very expensive and inefficient way of suspending the trolley-wire.

I do not herein claim, broadly, a trolley-wire hanger or support composed of two members, one member being provided with arms and the other member being adapted to be secured between said arms and provided with a channel or groove to receive the wire.

I claim—

1. The herein-described hanger or support for wires, consisting of two parts or members, one member having a hub provided with an opening and having arms  $a^2 a^3$ , and the other member having a boss to extend up into said opening and being provided with a longitudinal groove or channel to receive the conductor, substantially as described.

2. The combination, with a hanger or support for trolley-wires, consisting of two mem-

bers *a a'*, of a casting 7, a sleeve 6 of insulating material extended through said casting, and a threaded rod to unite said hanger or support to said casting, substantially as described.

3. The combination, with a hanger or support for trolley-wires, consisting of one member *a*, having a hub provided with an opening and having arms extended from said hub, a second member having a boss or projection to extend up into the opening in the first member and provided with a threaded socket or opening and having a longitudinal groove

or channel, of a casting 7, a sleeve 6 of insulating material extended through said casting, and a threaded rod extended through said sleeve and into the threaded opening in the boss, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERBERT C. WIRT.

Witnesses:

JAS. H. CHURCHILL,  
EMMA J. BENNETT.