

(No Model.)

I. B. WALKER.
TROLLEY WIRE HANGER.

No. 526,422.

Patented Sept. 25, 1894.

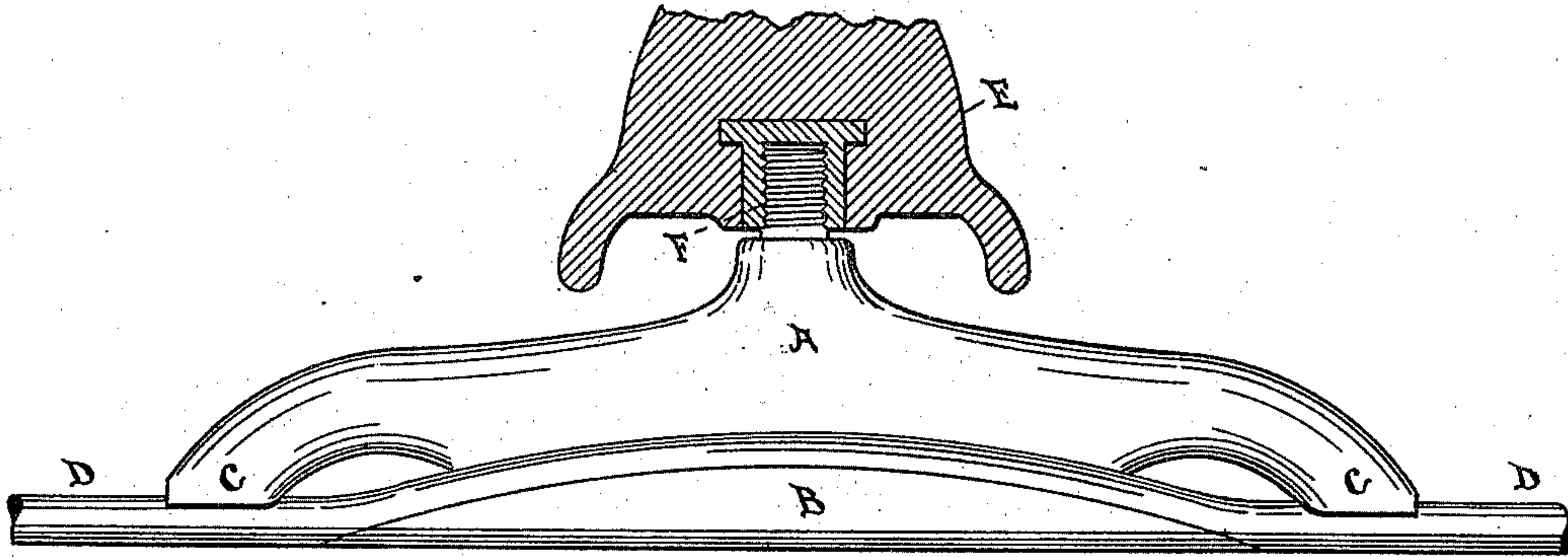


FIG. 1.

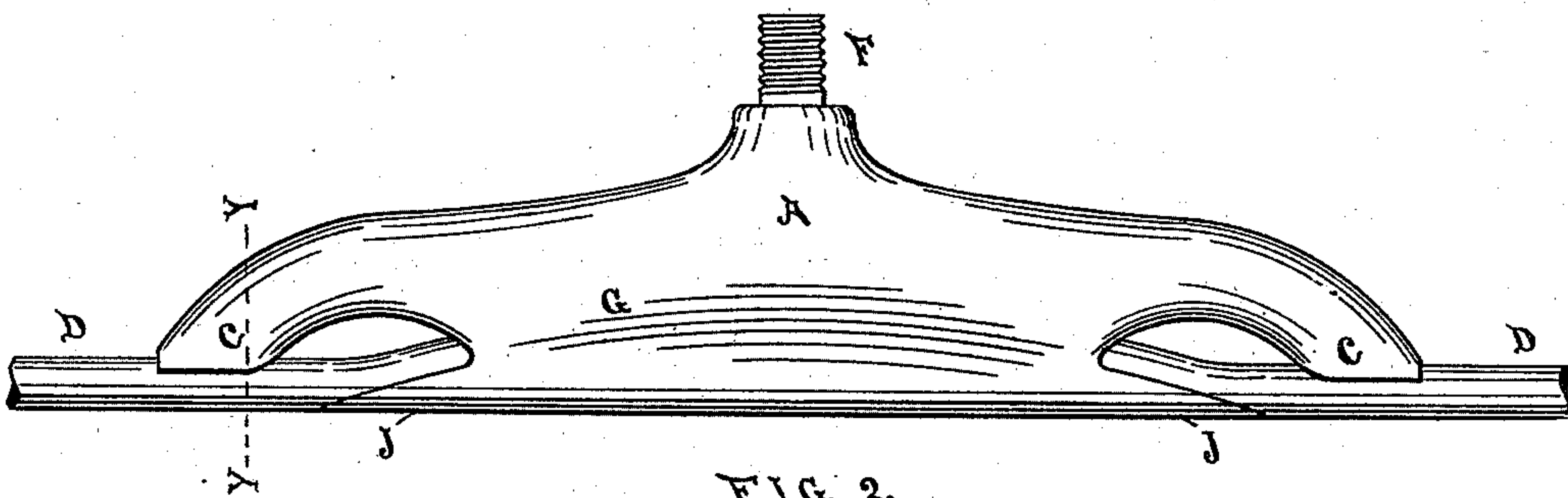


FIG. 2.

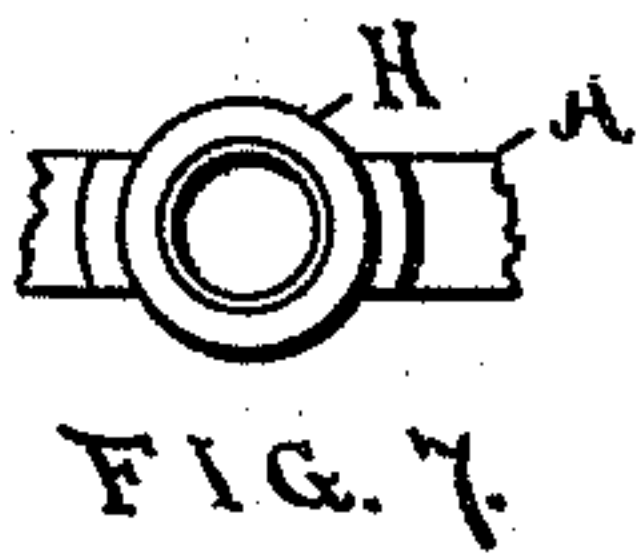


FIG. 7.

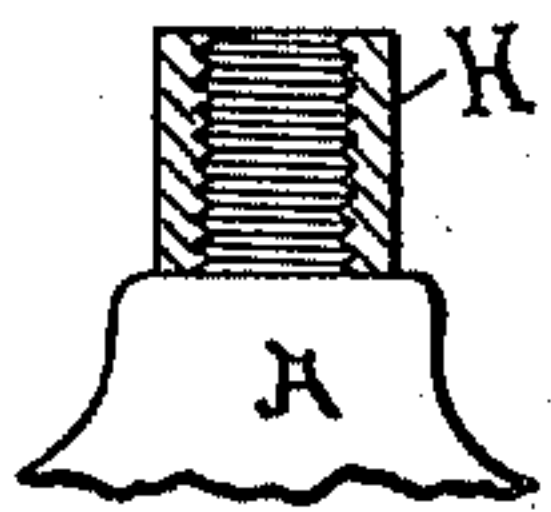


FIG. 6.



FIG. 4.

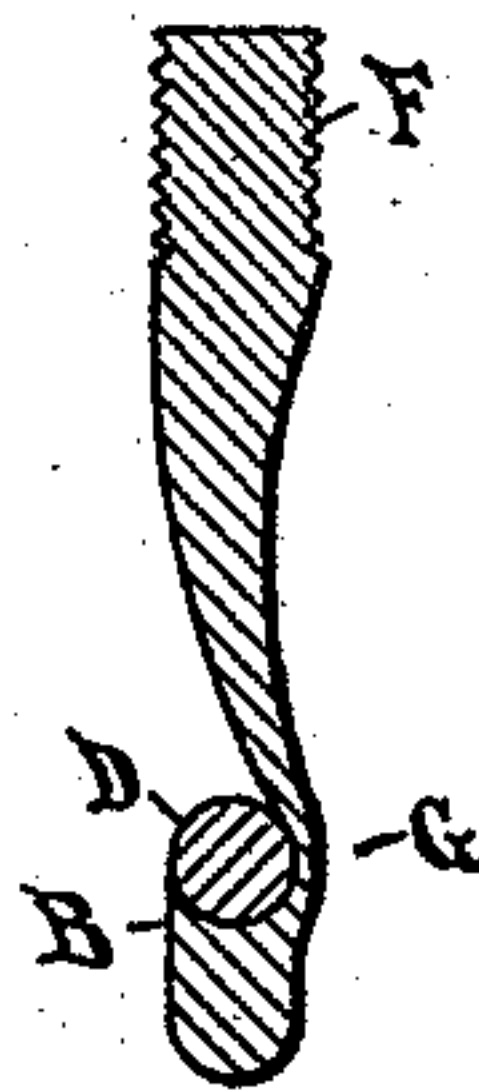


FIG. 3.

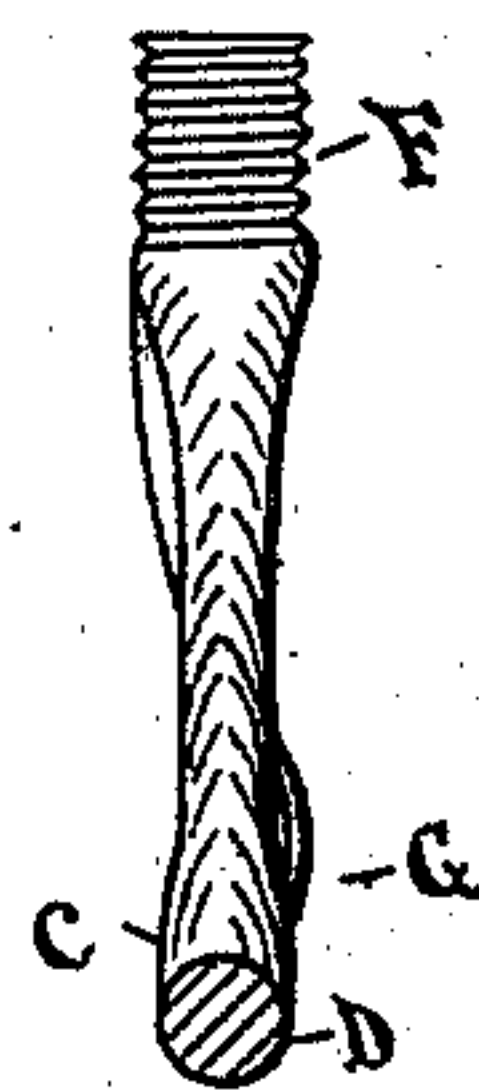


FIG. 5.

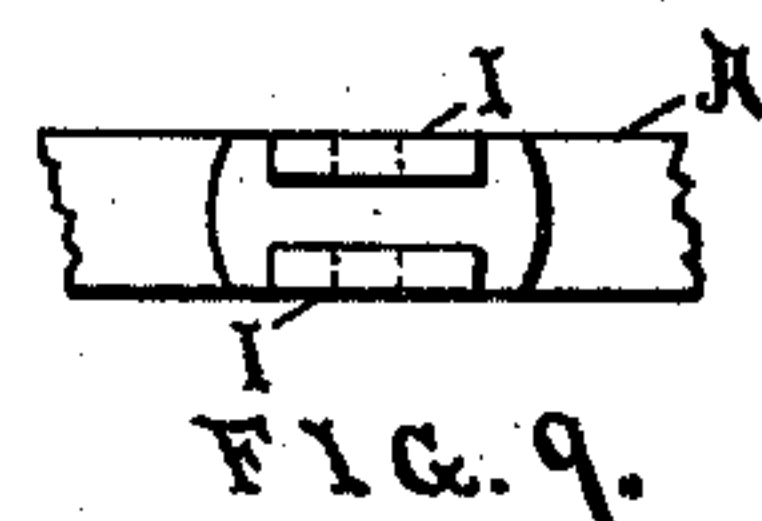


FIG. 9.

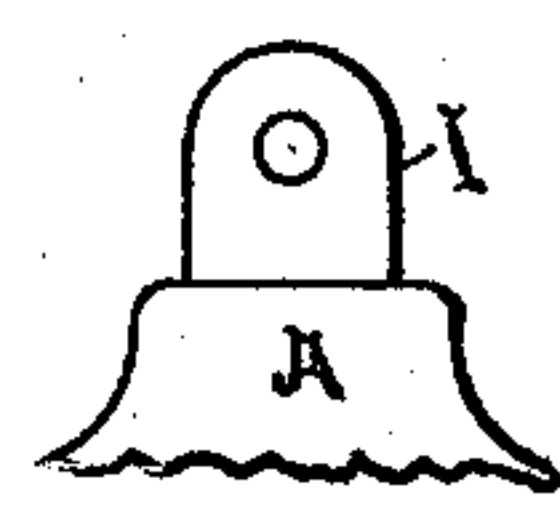


FIG. 8.

WITNESSES.
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IRVIN B. WALKER, OF SIOUX CITY, IOWA.

TROLLEY-WIRE HANGER.

SPECIFICATION forming part of Letters Patent No. 526,422, dated September 25, 1894.

Application filed February 26, 1894. Serial No. 501,567. (No model.)

To all whom it may concern:

Be it known that I, IRVIN B. WALKER, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented certain new and useful Improvements in Trolley-Wire Hangers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to trolley wire hangers of electric street railways and its object is to provide a hanger which will effectively support the wire and furnish no obstruction to the trolley wheel, thus permitting an uninterrupted flow of current without the break of current which now usually occurs on the passage of the wheel, and which is well known to be injurious to the wheel, wire and hanger.

My invention consists therefore in novelty of construction and arrangement of parts as will be specifically pointed out in the claim.

Reference is now had to the accompanying drawings, in which—

Figure 1 is a view of my invention in side elevation showing also a section of trolley bell and a portion of the wire. Fig. 2 is a similar view showing opposite side of hanger. Fig. 3 is a cross-sectional view taken through the center of the thread. Fig. 4 is a cross-sectional view taken on line $x-y$ Fig. 2. Fig. 5 is an end view showing also a section of wire. Figs. 6 and 8 are views showing different methods in use for attachment to the trolley bell. Fig. 7 is a plan view of Fig. 6. Fig. 9 is a plan view of Fig. 8.

Similar letters represent like parts throughout the several views.

In the drawings A represents the main part, or body, of the hanger.

B is a lip, or flange, of the hanger turned up on one side thereof and has a groove at the top in which the wire rests, as seen more clearly in Fig. 3.

C C represent the ends of the hanger ex-

tending slightly beyond the corners of the lip B and having grooves fitting tightly over the wire, Fig. 4.

D is the trolley wire; E, the trolley bell, and F a screw-threaded bolt with which the hanger is adjusted to the bell.

G is the rounded portion of the hanger opposite the wire caused by the depression made by the lip and groove.

It will be seen by reference to Fig. 3 that the hanger tapers gradually downward to the lip thus combining lightness with strength.

H is a nut sometimes used in connection with a bolt to connect the hanger with the bell.

I I are lugs upon the top of hanger, also used to connect the hanger and bell.

J J represent the corners of the lip B, which gradually tapers downward from an elevation at the center to a thin edge.

The wire may be bent to fit the groove with a machine for that purpose or by any suitable means, and fits the groove at the corners J J with scarcely a perceptible joint. The entire lower portion of the hanger as far up as the trolley wheel may reach, including the ends C C, is no wider than the diameter of the wire, Figs. 3, 4 and 5. A perfectly smooth surface with no obstruction either at the sides or on the bottom of the wire is thus afforded for the wheel. The distance between the bottom of the groove in the ends C C and a line extended from the bottom of the groove in the extreme corners J J is the diameter of the wire. The wire is thus perfectly secured to the hanger with the least possible deflection from its line. The hanger may be made of any suitable metal and is constructed of one piece.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A trolley-wire hanger constructed of a single piece, and having a central lip grooved upon its upper surface for the reception of the wire, the ends of said hanger extending longitudinally beyond said lip and over said wire and being grooved upon their under edges; the distance between the bottom of the groove in said ends and a line extending

from the bottom of the groove at the extreme
corners of said lip being the diameter of the
wire, the hanger being concave at the point
of contact with the wire and convex on the
5 side opposite thereto, the entire lower portion
of said hanger being of the width of the di-
ameter of the wire, substantially as described.

In testimony whereof I affix my signature in
presence of two witnesses.

IRVIN B. WALKER.

Witnesses:

H. C. GARDINER,

H. S. SWIFT.