

(No Model.)

C. B. ELLIOTT.  
HANGER FOR ELECTRIC RAILWAY WIRES.

No. 476,192.

Patented May 31, 1892.

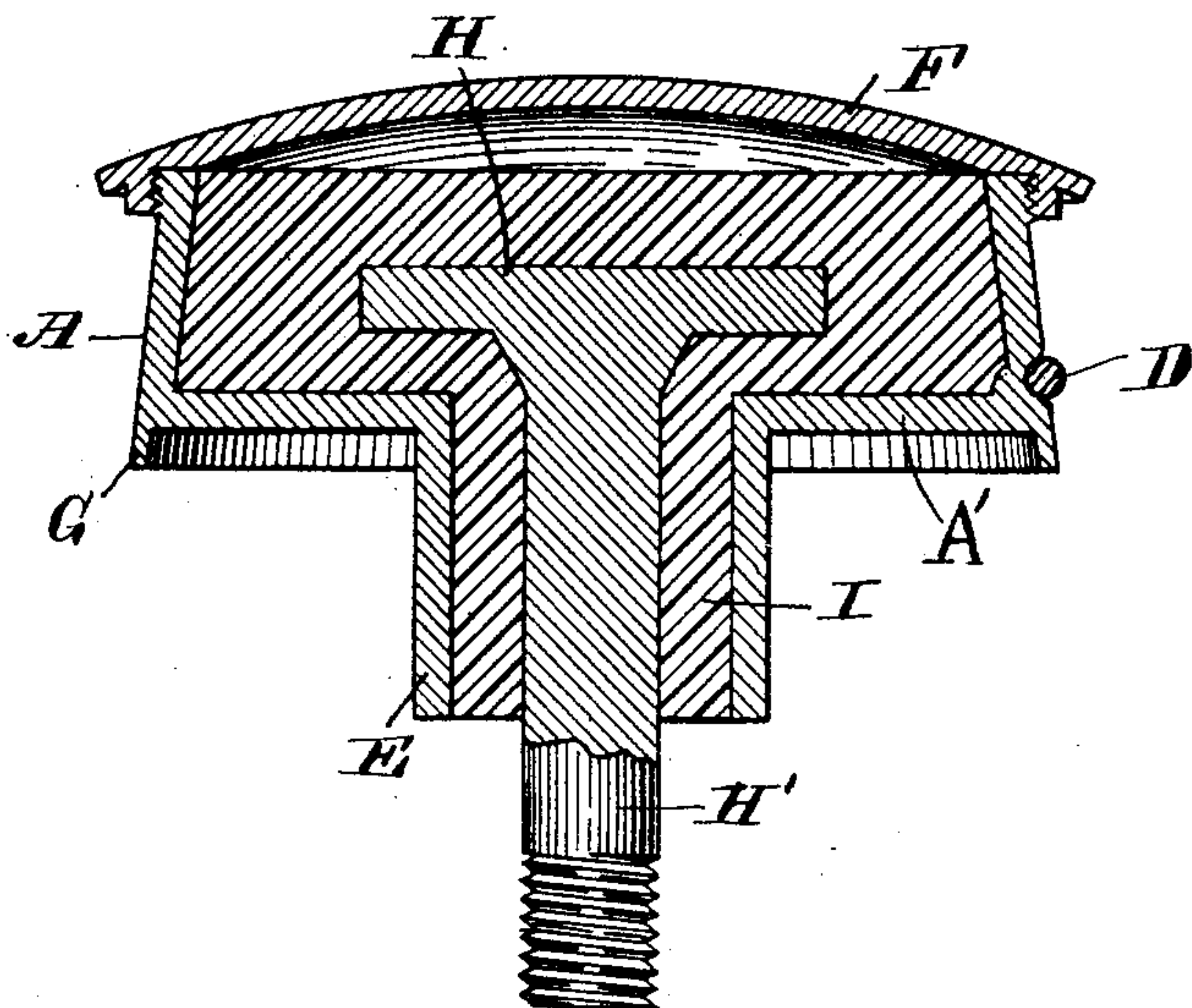


Fig. 1.

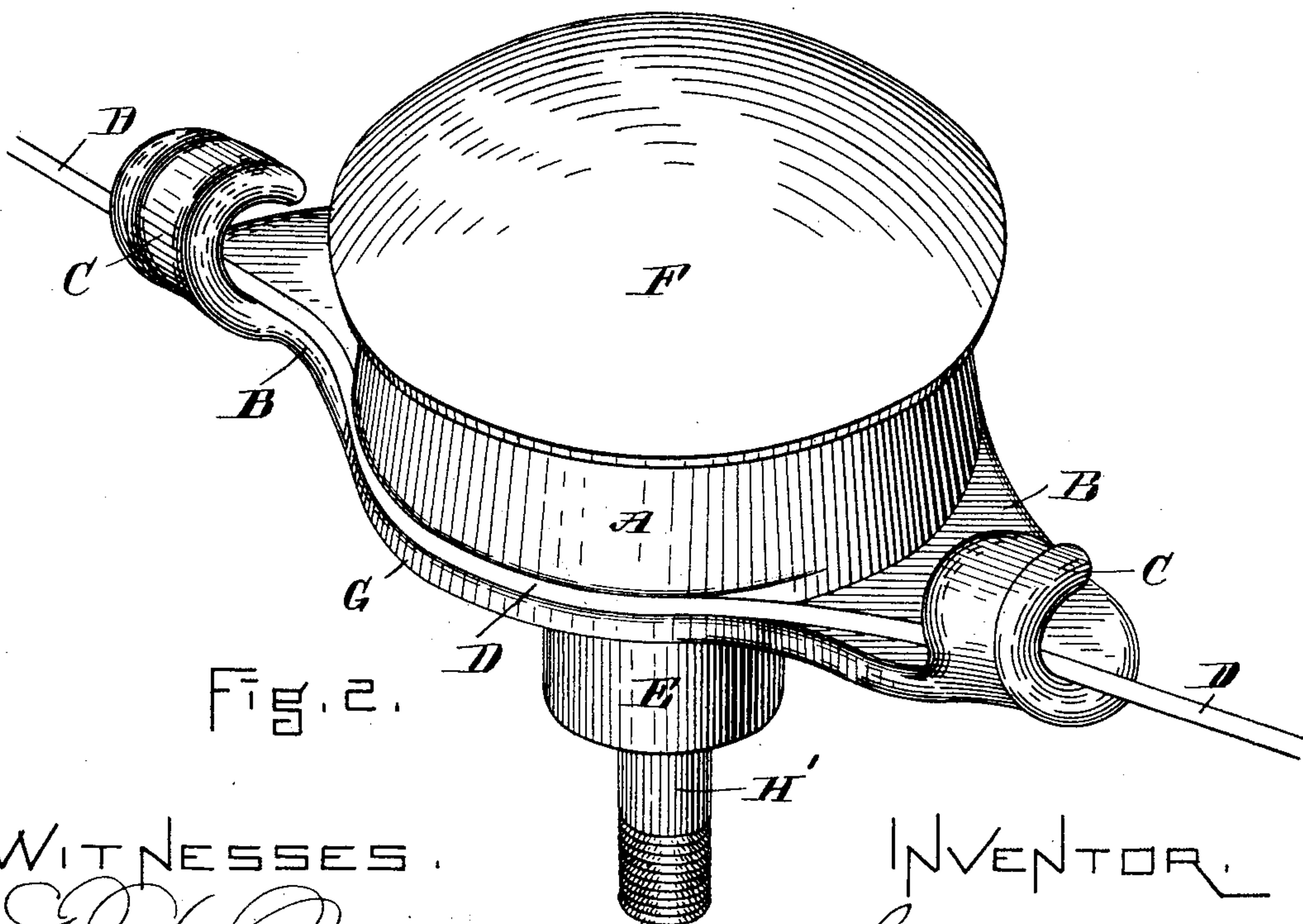


Fig. 2.

WITNESSES.

*G. Henry Marsh.*  
*Alden Frink*

INVENTOR.

*Charles B. Elliott.*  
*by A. H. Jones,*  
*attorney*



# UNITED STATES PATENT OFFICE.

CHARLES B. ELLIOTT, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE  
REVERE RUBBER COMPANY, OF SAME PLACE.

## HANGER FOR ELECTRIC-RAILWAY WIRES.

SPECIFICATION forming part of Letters Patent No. 476,192, dated May 31, 1892.

Application filed November 30, 1891. Serial No. 413,491. (No model.)

### *To all whom it may concern:*

Be it known that I, CHARLES B. ELLIOTT, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Hangers for Overhead Work on Electric Railways, of which the following, taken in connection with the accompanying drawings, is a specification.

The object of this invention is to furnish improved means for suspending and insulating overhead wires in electrical work, especially the trolley-wires of electric railways.

In the construction peculiar to my improvement the suspending devices are separated by a body of insulating material inclosed in a surrounding shell having a protecting-cap at its top, such shell being formed as a part of or integral with the upper member of the suspending device. The parts are so arranged that while the shell confines and protects the insulating material said material is held with increasing firmness and pressure as the weight to be supported increases. In the preferred form this shell has a depending tubular portion of decreased diameter extending downwardly, surrounding the stem of the lower part of the hanger and inclosing, also, an annular portion of the insulating material interposed between them. A marginal flange or water-shed extends downwardly from the walls of the shell to prevent water from running inwardly toward the center. The edges of the cap also droop and act similarly.

In the drawings, Figure 1 is a vertical section through the device, and Fig. 2 a perspective view showing its exterior.

The main upper member of the hanger consists of a body or shell having side walls A and bottom A' and provided with lateral wings B and terminal ears or hooks C to engage with the supporting-wire D, which, passing around one side of the shell and beneath the hooks C, extends to the poles on opposite sides of the street. The shell has a depending tubular central portion E of reduced diameter integral with the walls A and bottom A' of said shell and extending down from its bottom, about as shown in Fig. 1. This portion, as well as the main body of the shell A, is

filled with rubber compound or some other insulating material I, entirely surrounding the lower hanger II, inclosed therein. This hanger has a broad flat head, too large to pass downwardly through the reduced tubular part E, and also a stem H', occupying the center of such tubular part and threaded at its lower end or otherwise formed to connect with the trolley-wire. The body of insulating material I, which surrounds this hanger II and is interposed between it and the body, bottom, and tubular extension of the upper member, thoroughly insulates the trolley-wire, while giving it efficient support. The top of the shell is closed by a cap F (shown in Fig. 1 as made distinct from the side walls and screwed thereon, with its margin projecting outwardly and downwardly) to shed water beyond said walls. The shell or body A has also a depending flange or lip G to cause water to drip from that point rather than to follow inwardly and down the tubular part E.

I claim as my invention—

1. The described suspending and insulating devices, consisting of the shell having in one integral casting the side walls A, the bottom A', and the reduced depending tubular central portion E and lateral ears or hooks C for engagement with the transverse supporting-wire, in combination with the hanger II H', the enlarged head and prolonged stem of which are located centrally in said shell and its tubular extension, and with the body of insulating material I, interposed between the parts A E and II H', substantially as and for the purpose set forth.

2. In an insulating-hanger, the shell A E, provided with a protecting-cap and formed with an annular water-shed or drip, in combination with the inclosed body of insulating material and the hanger H H', embedded in such material, substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 15th day of October, A. D. 1891.

CHAS. B. ELLIOTT.

Witnesses:

A. H. SPENCER,  
ELIHU G. LOOMIS.