

No. 762,791.

PATENTED JUNE 14, 1904.

M. M. WOOD.
TROLLEY HANGER.

APPLICATION FILED DEC. 15, 1902.

NO MODEL.

Fig. 1.

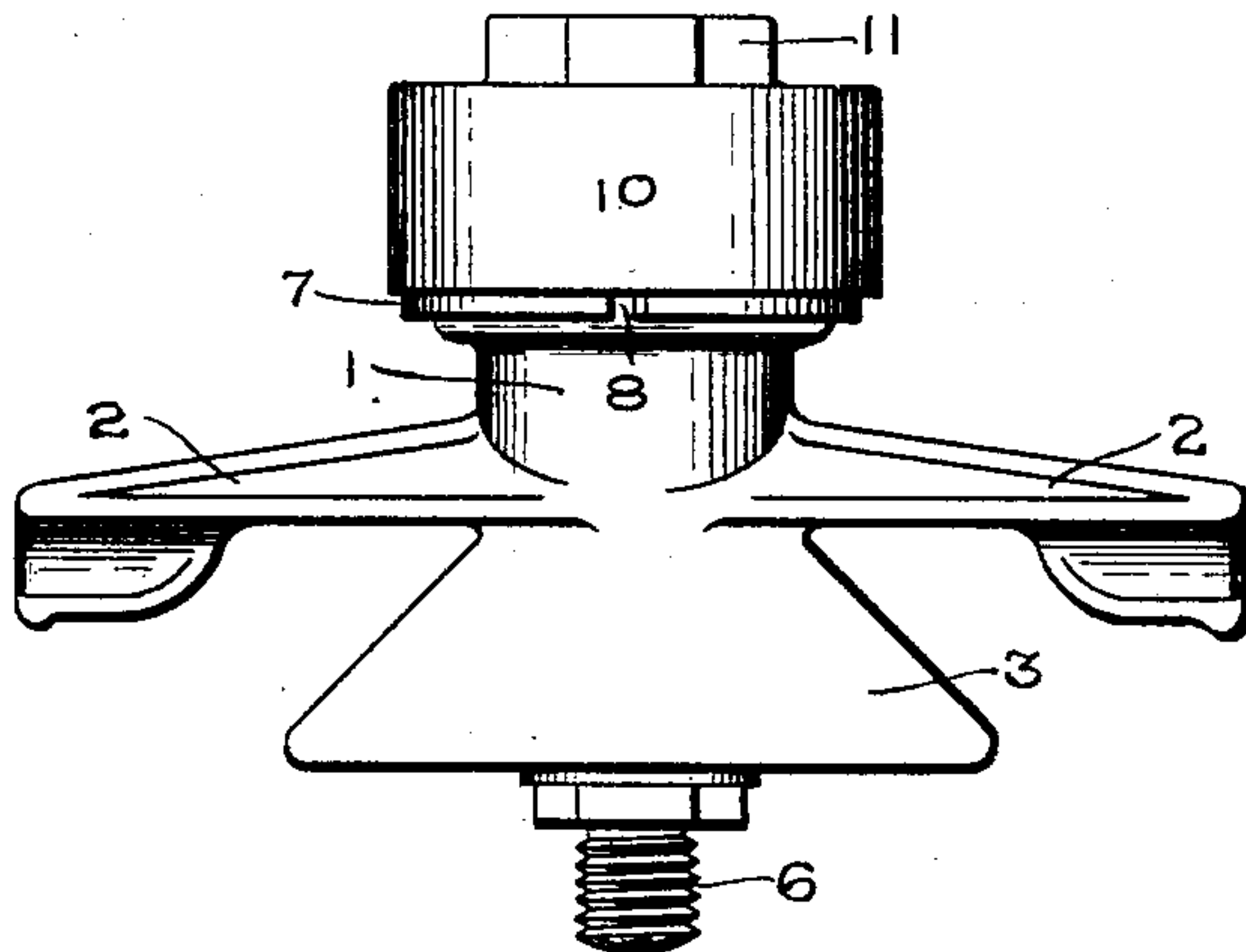


Fig. 2.

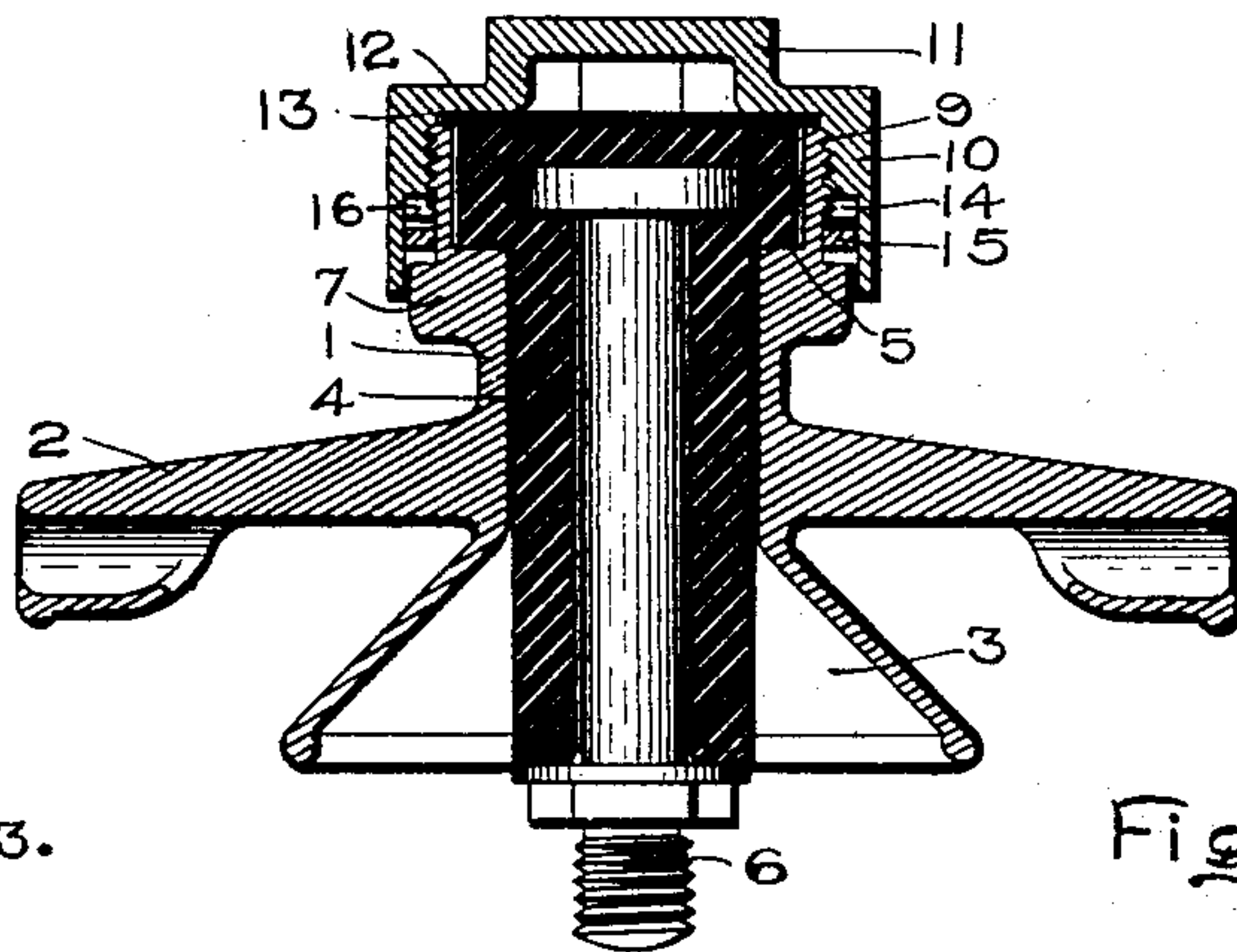


Fig. 3.

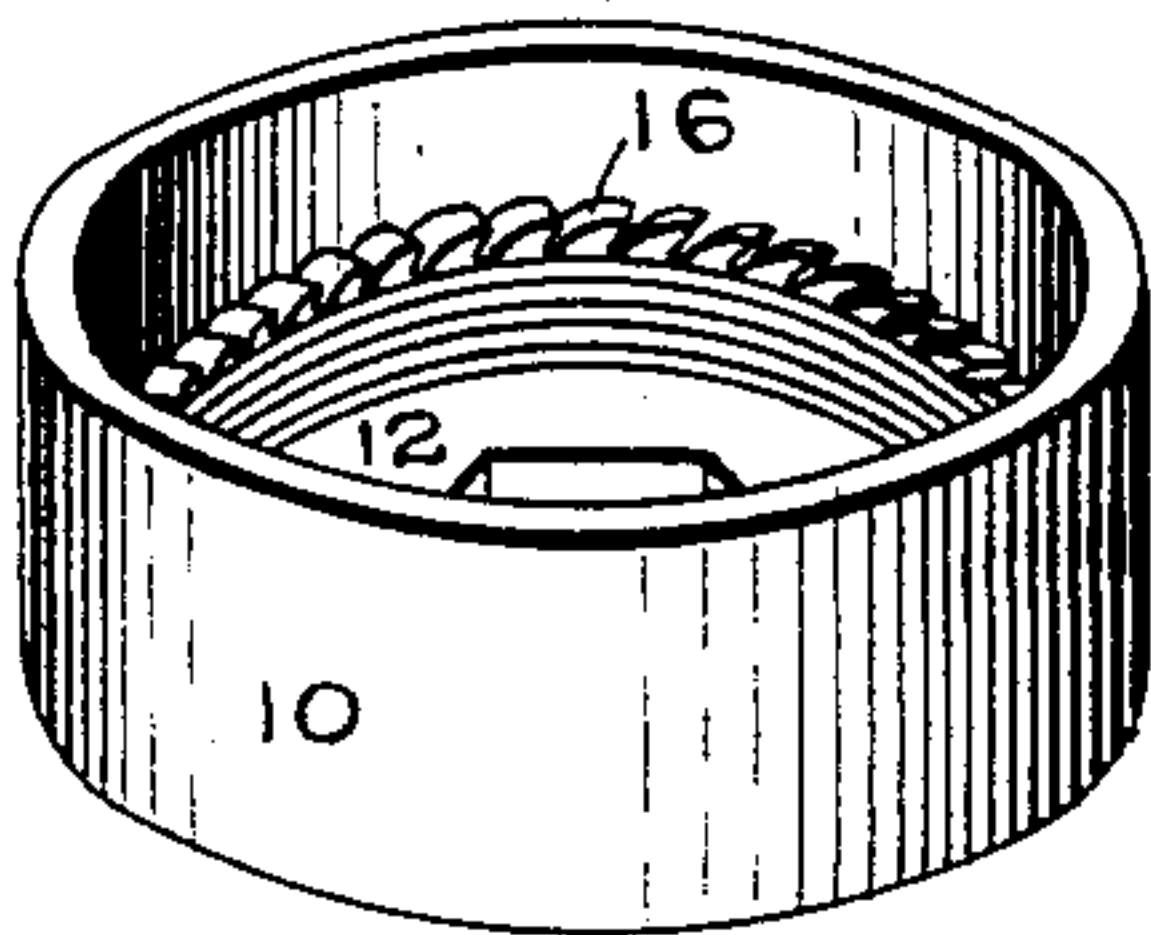
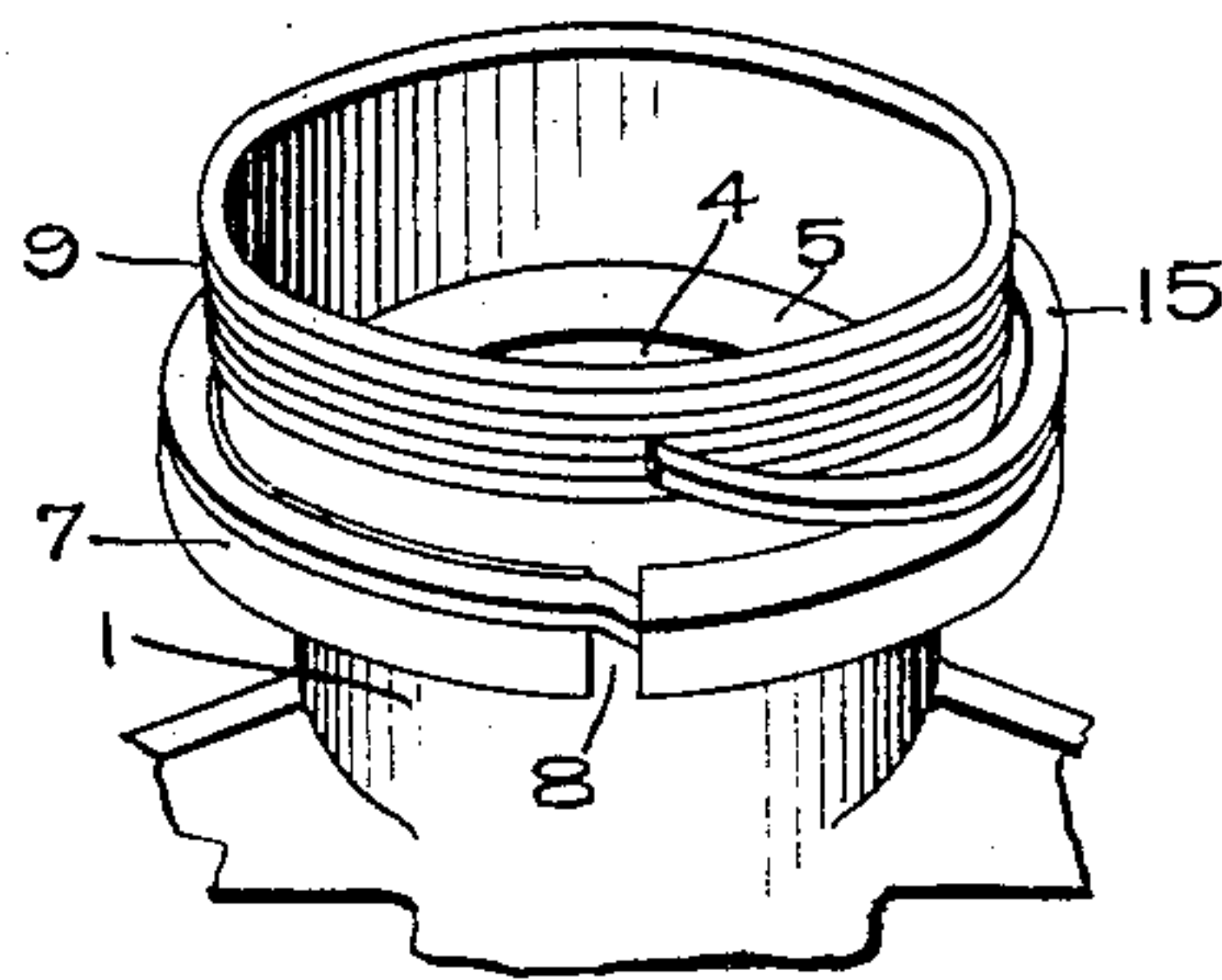


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

MONTRAVILLE M. WOOD, OF SCHENECTADY, NEW YORK, ASSIGNOR TO
GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

TROLLEY-HANGER.

SPECIFICATION forming part of Letters Patent No. 762,791, dated June 14, 1904.

Application filed December 15, 1902. Serial No. 135,234. (No model.)

To all whom it may concern:

Be it known that I, MONTRAVILLE M. WOOD, 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-Hangers, of which the following is a specification.

My present invention relates to trolley-hangers, and has for its object to provide a simple and compact hanger having its several parts held together in fixed relative positions by self-locking means which are so arranged and protected that corrosion, formation of ice, or other action of the elements cannot interfere with the ready unlocking of the parts when desired.

My invention will be readily understood by reference to the accompanying drawings, forming a part of this specification, in which—
Figure 1 is a side elevation of a trolley-hanger embodying one form of my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a perspective view of the metallic cap, showing the inner crown-ratchet and screw-thread; and Fig. 4 is a perspective view of the upper end of the supporter and the locking-spring.

As shown in the drawings, the support 1 has straight arms 2 for engagement with a guy-wire and is provided at its lower end with a deflector 3. A cylindrical hole 4 extends up through the body of the supporter, and near the upper end it is enlarged to form a shoulder 5, adapted to receive and support the usual insulated bolt 6. Near the upper end of the supporter is provided a shouldered projection 7, which surrounds the end of the supporter with the exception of a notch 8, and above the shoulder the supporter is provided with a screw-thread 9 for the reception of the cap 10. The cap 10 is provided at its upper end with a polygonal projection 11, whereby it may be engaged by a wrench and rotated. A shoulder 12 is provided on the inside of the cap to engage an elastic pad 13 at the end of the insulated bolt when the cap is screwed down. The side wall of the cap is recessed at 14 to provide room for the retaining device 15 and the upper end of the shouldered pro-

jection 7. A row of ratchet-teeth 16 is provided in the side wall of the cap at the upper side of the recess 14. The spring retaining device 15 is made from a rectangular bar of steel bent to encircle the upper end of the supporter 1 and having its end portions sprung away from each other, as shown in Fig. 4, so that one will engage the side of the notch 8 and the other the ratchet-teeth 16 of the cap in such a manner as to permit the cap to be rotated freely to screw it in engagement with the supporter 1 and held in any position against rotation in the opposite direction.

When it is desired to remove the cap 10, a pointed tool may be inserted in the notch 8 and the end of the retaining-spring 15 raised above the shoulder, whereupon it is free to be rotated with the cap in the reverse direction. One or two reverse rotations of the cap will ordinarily serve to raise it sufficiently to remove the ratchet-teeth above the path of the upper end of the retaining-spring.

It is to be noted that the construction shown provides a drip at the lower edge of the cap which overhangs the shouldered projection 7 at the lower end of the joint between the cap and support, so that water cannot get into the threaded joint or the recess 14 of the spring-retainer to cause rust or to freeze upon the parts.

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

1. The combination of a supporter provided with a notched shoulder, a cap having screw-threaded connections with said supporter and provided internally with ratchet-teeth, and a locking device adapted to engage the notch and ratchet-teeth.

2. The combination of a supporter having a shouldered projection having a transverse notch extending therethrough, a cap having screw-threaded connection with said supporter and provided with ratchet-teeth, and a locking device adapted to engage the notch and ratchet-teeth.

3. The combination of a supporter having a shoulder having a notch extending therethrough, a cap having screw-threaded connection with said supporter and provided with

interior ratchet-teeth, and a locking device adapted to engage the notch and ratchet-teeth.

4. The combination of a supporter having a
5 shouldered projection provided with a notch, a cap having screw-threaded connection with said support and surrounding the outer edge of said projection and provided with interior ratchet-teeth, and a locking device adapted to
10 engage the notch and ratchet-teeth.

5. The combination of a supporter, a cap having screw-threaded connection therewith,

one of said parts being provided with a notch and the other with ratchet-teeth, and a locking device located within the cap surrounding
15 said supporter and engaging at its respective ends with the ratchet-teeth and the notched part.

In witness whereof I have hereunto set my hand this 13th day of December, 1902.

MONTRAVILLE M. WOOD.

Witnesses:

BENJAMIN B. HULL,
HELEN ORFORD.