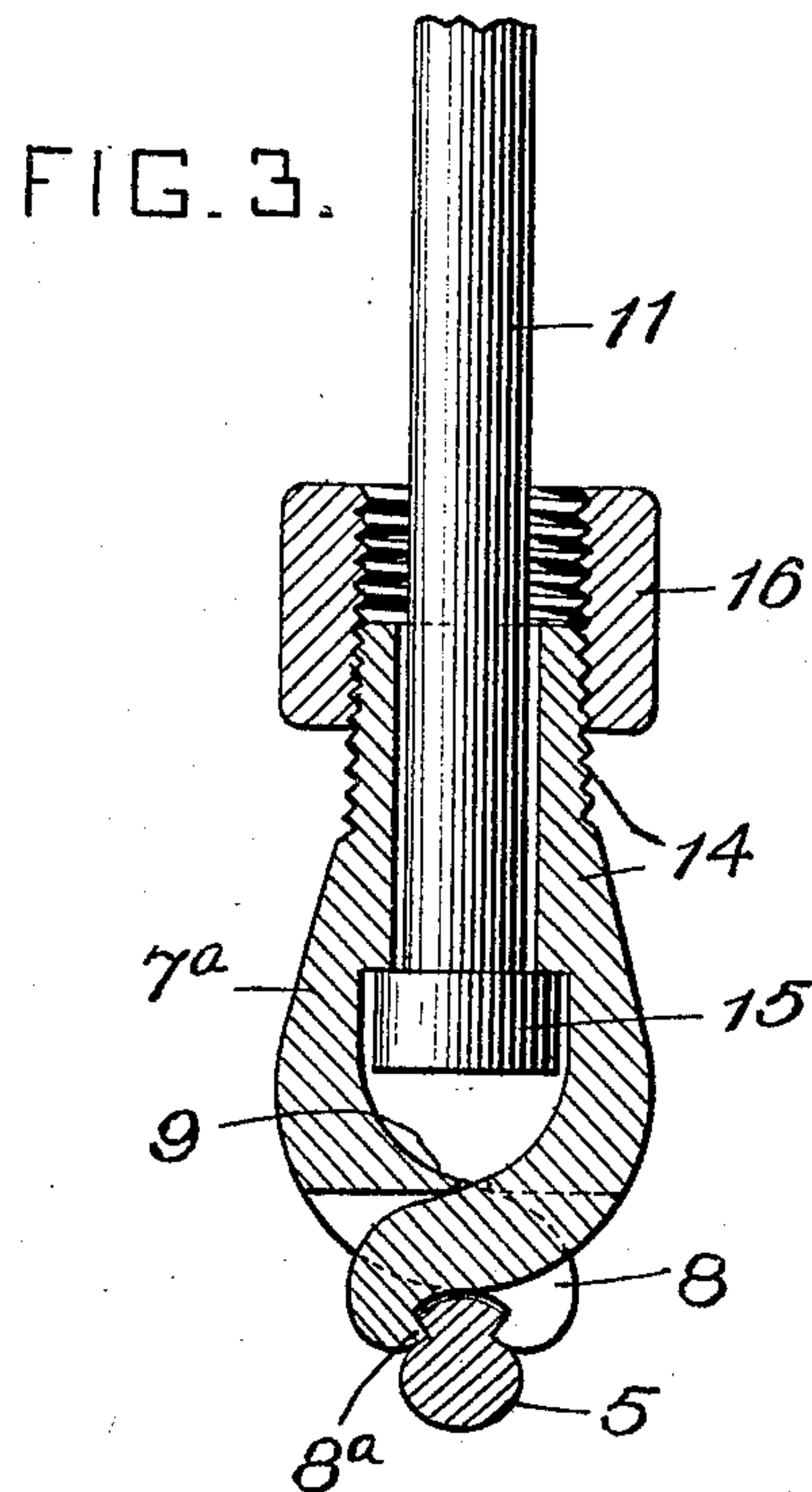
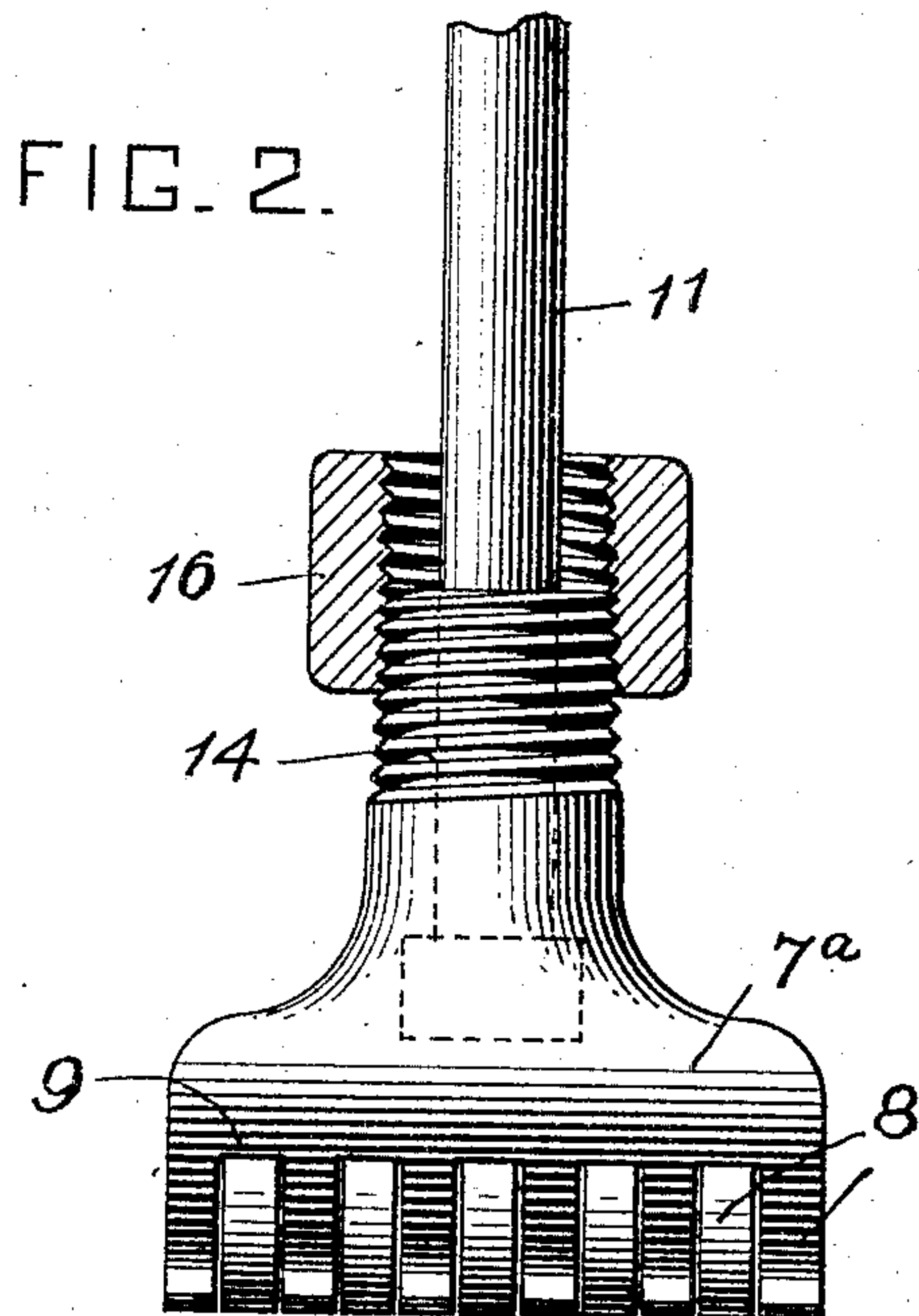
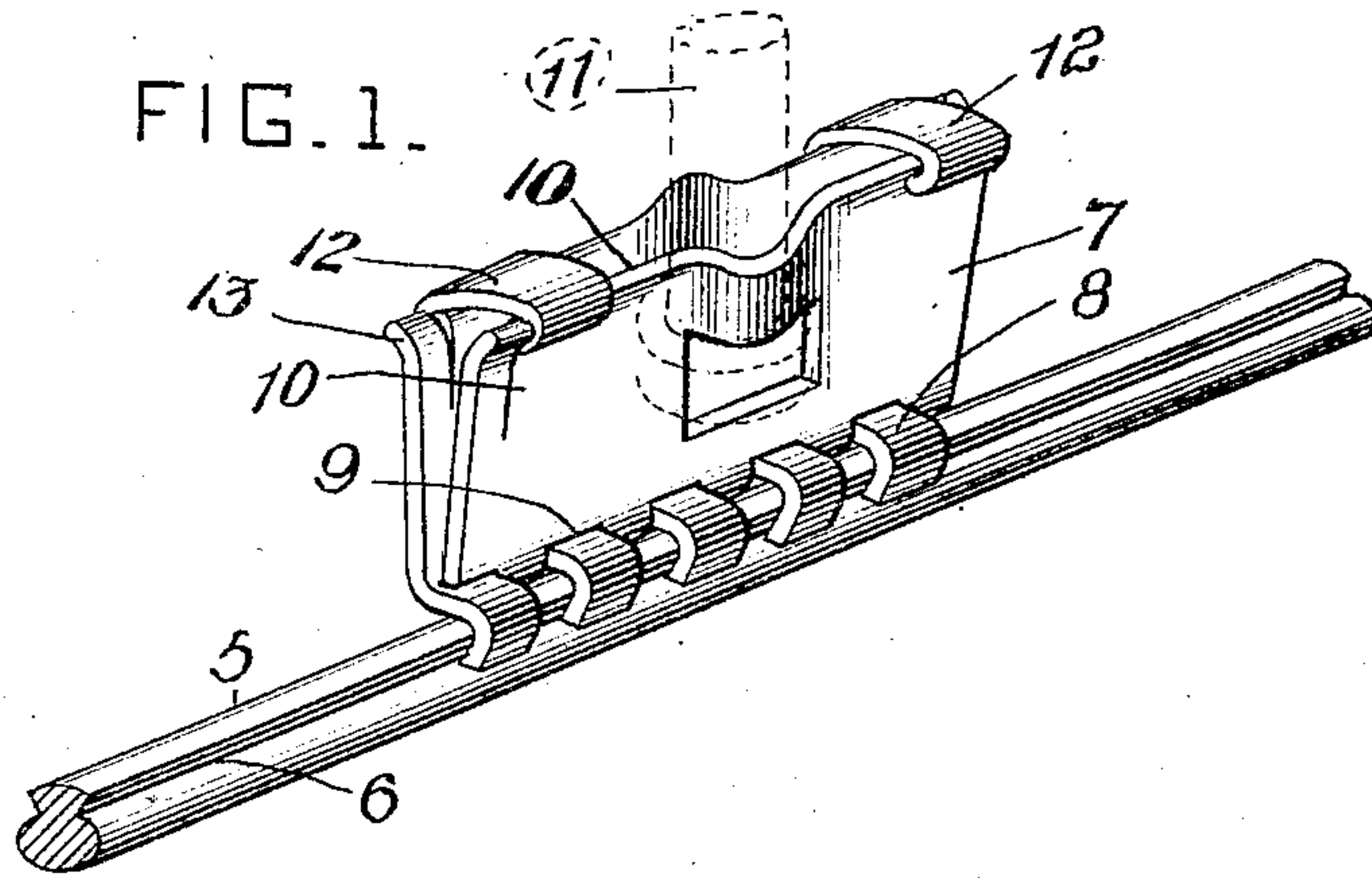


G. B. DUSINBERRE.
TROLLEY HANGER.
APPLICATION FILED SEPT. 9, 1907.

931,397.

Patented Aug. 17, 1909.



WITNESSES:

Fred Stant.
Chas. S. Peckley.

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UNITED STATES PATENT OFFICE.

GEORGE B. DUSINBERRE, OF CLEVELAND, OHIO, ASSIGNOR TO WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, A CORPORATION OF PENNSYLVANIA.

TROLLEY-HANGER.

No. 931,397.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed September 9, 1907. Serial No. 391,870.

To all whom it may concern:

Be it known that I, GEORGE B. DUSINBERRE, a citizen of the United States, residing in Cleveland, in the State of Ohio, have
5 invented a certain new and useful Trolley-Hanger, of which the following is a specification.

My invention relates to electric railway and other trolleys, and particularly to clamps
10 for attaching a wire to the supporting structure.

The objects of the invention are to provide a strong and secure grip upon the wire, to simplify and cheapen the construction, and
15 particularly to provide an improved fulcrum grip having several gripping jaws.

In the accompanying drawing the invention is illustrated in two forms, as adapted to use on the so-called catenary construction
20 of electric trolley lines.

Figure 1 is a perspective view of a preferred form of the hanger; Fig. 2 is a side elevation and Fig. 3 a vertical cross-section of a modified form to be made of forgings.

Heretofore it has been customary to attach a trolley wire to a superstructure by clamping devices in which the fulcrum is on the hanging rod, and the jaws of the clamp are held together by bolts or screws; but
25 such structures are difficult to secure, and always liable to work loose from the jarring.

In the form of my invention shown in Fig. 1, I illustrate the jaws of the clamp made of two identically constructed plates stamped out, the device being adapted to hold a trolley wire 5 which has, on each side, a groove 6. The plates 7 are provided with interlocking teeth 8; each of which fits snugly under and is fulcrumed upon the bottom of the notch 9 in the opposite plate 7. The upwardly extending part of the plate 7 is preferably provided with outwardly flared edges or flanges 10 and suitable recesses and apertures to engage the head of a hanger rod 11. The flanges 10 are drawn toward each other and are secured by a pair of clips 12 which may be driven upon the plates 7, as shown. For additional security, the plates 7 may be provided with tongues 13 which may be bent outward beyond the outer edges of the clips 12 after they are put in place. It will be observed that the jaws of the clamp are fulcrumed very close to the wire and that the backward extensions
30 form long levers by which the jaws are very

firmly clamped together. The places between the teeth 8 being used as pivoting fulcrums, the plates 7 require no special hinge or fulcrum and may be made exactly alike. At the same time, the fastening means
60 secures the clamp to the hanger rod, and it will be evident that the device cannot possibly work loose. Each plate serves for either side, and, being all alike and of plate metal, all are cheaply manufactured.

In Figs. 2 and 3, I have shown a modified form in which the backward extension of the jaws 8 are fulcrumed on each other at 9, as before. In this form, however, the lever arms 7^a are provided with tapered threads
65 14, upon which a nut 16 may be secured to clamp the jaws against the head 15 of a hanger rod 11. The fulcrum points 9 are thus brought very close to the gripping point 8^a of the jaws, giving very secure fastening
75 upon the trolley wire 5, as will be evident. Of course, various designs of fastening means for the backwardly extending portions of the gripping jaws may be used, but, in all forms, the jaws themselves should be
80 interlacing teeth fulcrumed upon each other. The various advantages of the device will be readily apparent to those familiar with the art.

I claim as my invention:

1. A trolley wire hanger comprising a pair of identically constructed plates of stamped plate metal having interlacing jaw teeth and fulcrumed upon each other at the bases of said teeth, and single-piece clamping devices which engage the exterior upper edges of said plates.

2. A trolley wire hanger comprising two plates having divergent sides and provided with interlacing jaw teeth and fulcrumed
95 upon each other at the bases of said teeth, a hanger rod having a head located between said plates, and means engaging the upper external portions of said plates to effect a clamping action between the jaw teeth and
100 to lock the hanger rod in position.

3. A trolley wire hanger comprising two identically constructed jaw members having interlacing teeth and fulcrumed upon each other at the bases of said teeth, a hanger rod
105 having a head located between said jaw members, and a clamping device which makes external engagement with the upper portions of said members.

4. A trolley wire clamp comprising two 110

plates provided with interlacing jaw teeth and fulcrumed upon each other at the bases of said teeth and having divergent sides, and sliding clips which embrace the upper edges of the plates and clamp the jaw teeth in engagement with the trolley wire.

5. A trolley wire clamp comprising two jaw members having interlacing teeth and divergent sides, clips which embrace the up-

per edges of said members, and means for preventing accidental removal of said clips.

In witness whereof, I have hereunto signed my name in the presence of the two subscribed witnesses.

GEO. B. DUSINBERRE.

Witnesses:

CHARLES B. FAIRCHILD, Jr.,
MAY DOTY.