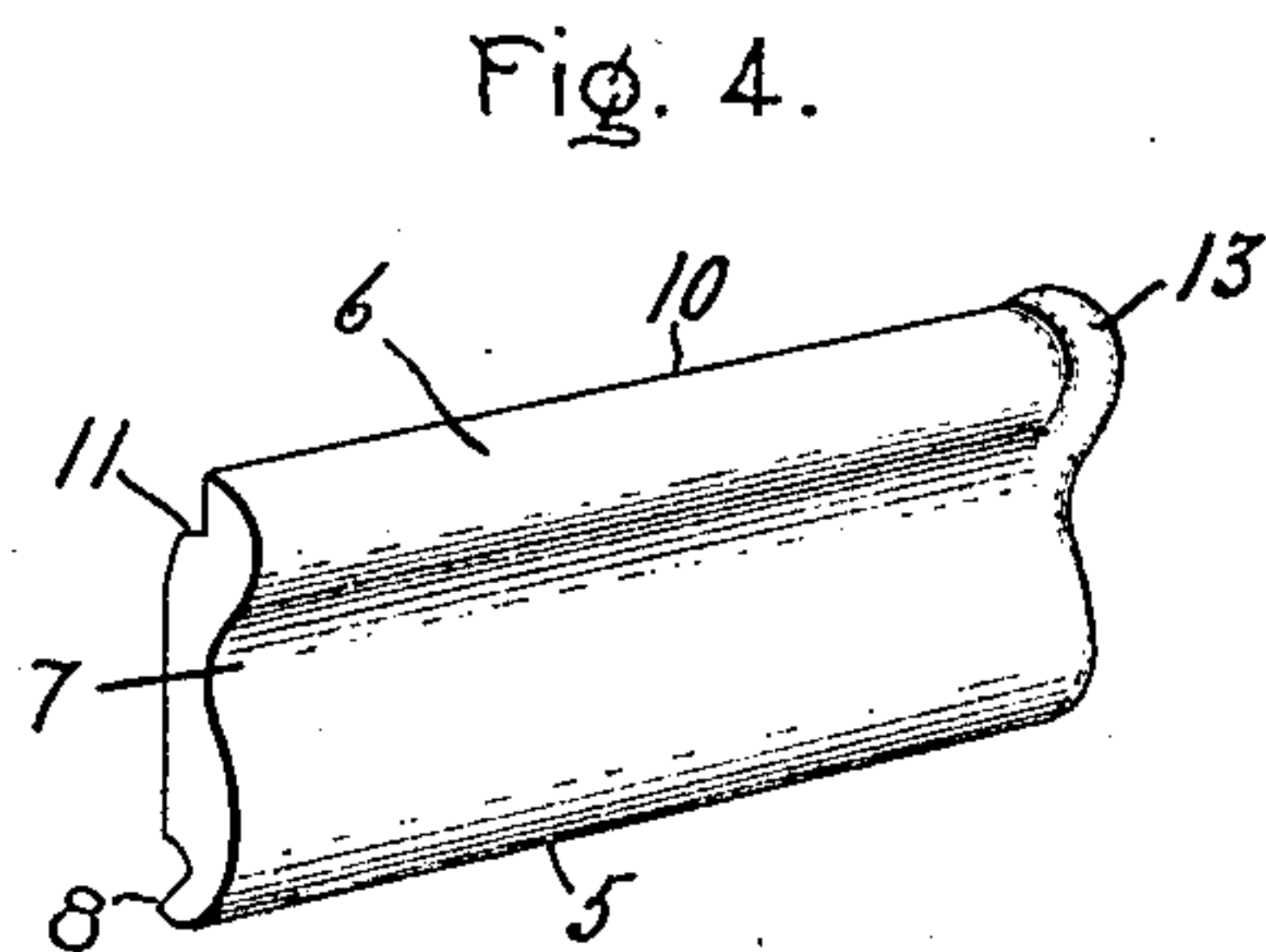
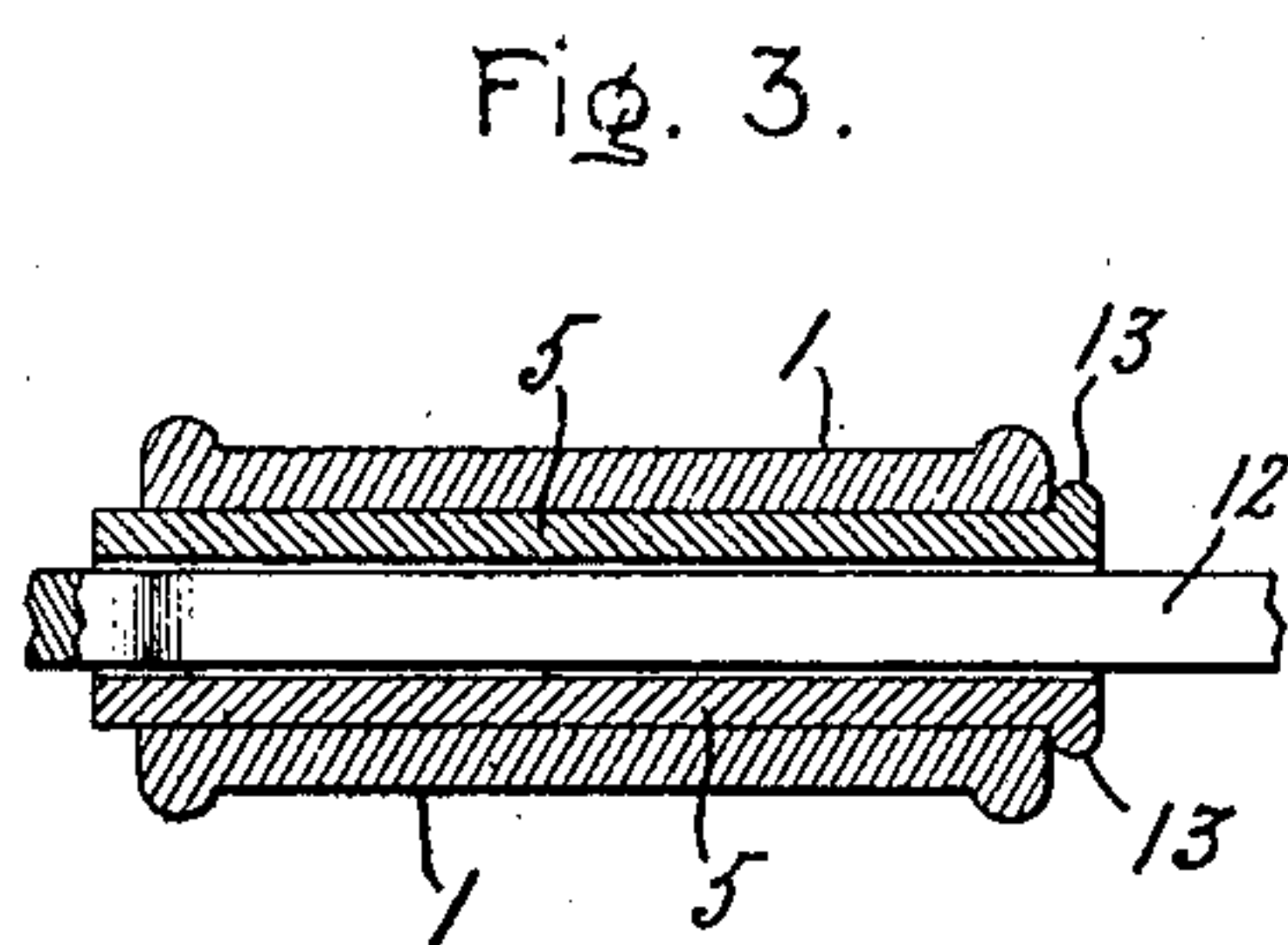
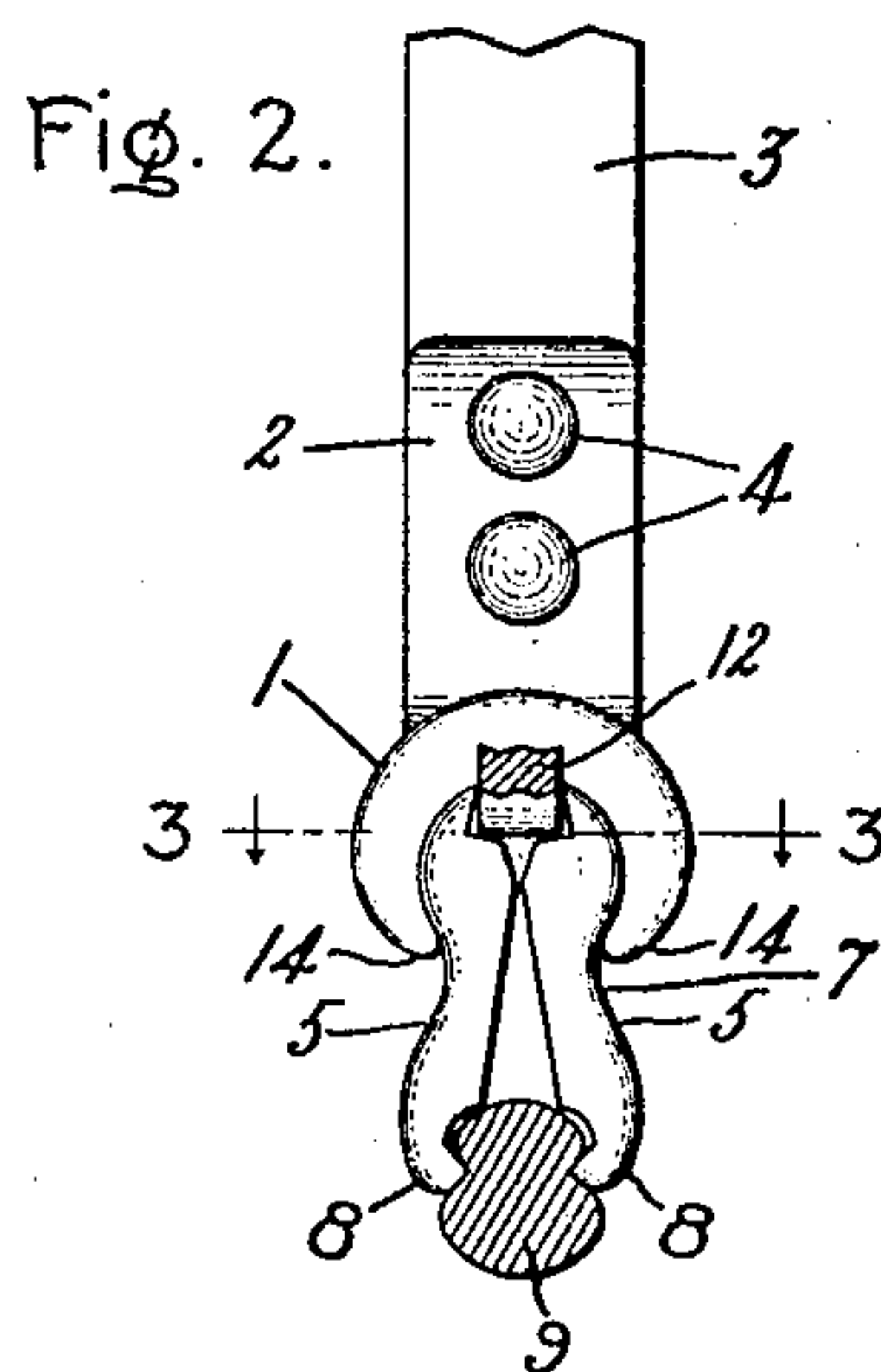
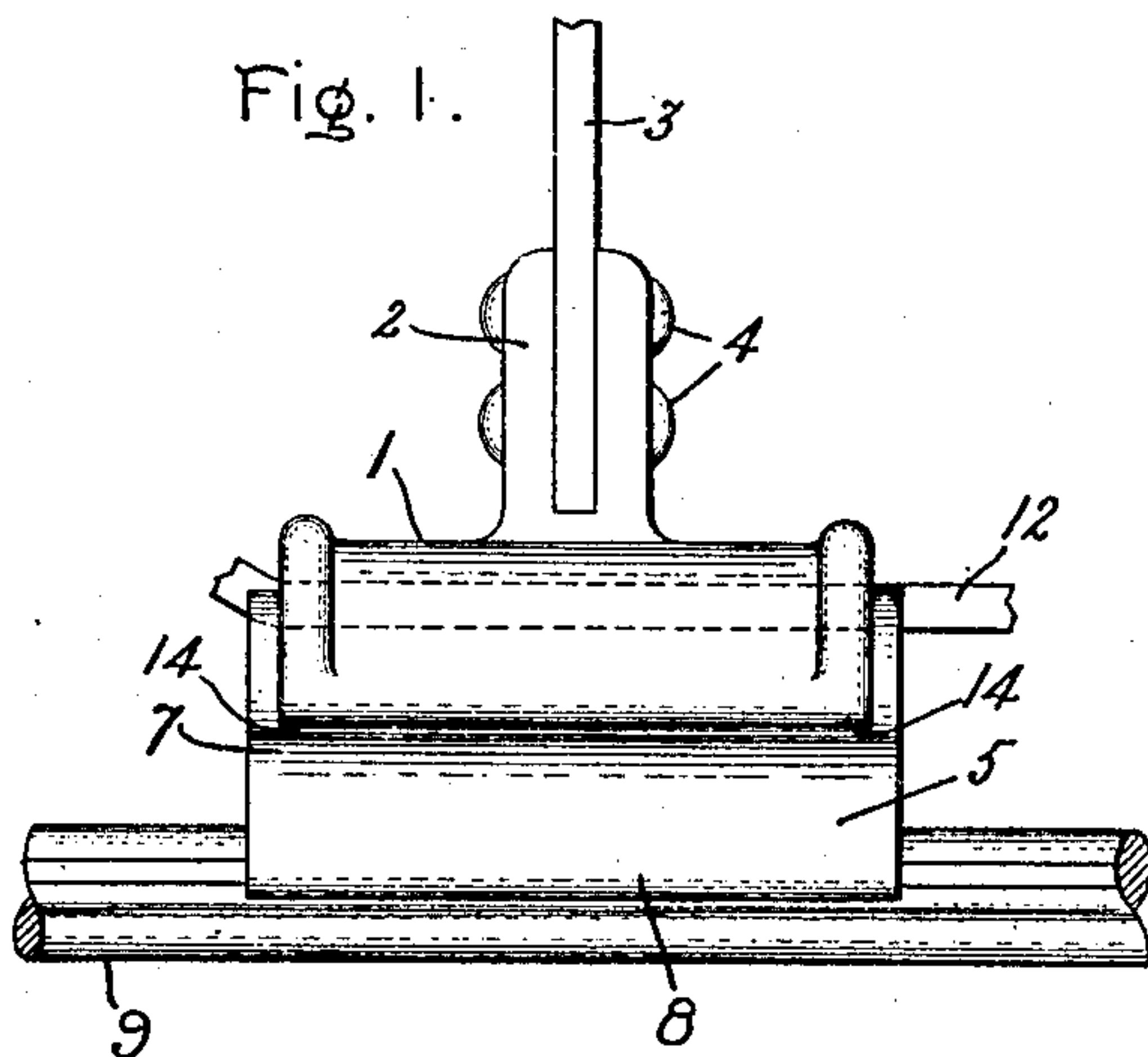


F. GUILLOT.  
CLAMPING EAR FOR TROLLEY WIRES.  
APPLICATION FILED OCT. 10, 1907.

919,571.

Patented Apr. 27, 1909.



Witnesses:

*George H. Tilden*  
*J. Ellis Allen*

Inventor  
Frank Guillot.

by *Alfred Davis*  
Att'y.

# UNITED STATES PATENT OFFICE.

FRANK GUILLOT, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

## CLAMPING-EAR FOR TROLLEY-WIRES.

No. 919,571.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed October 10, 1907. Serial No. 396,702.

*To all whom it may concern:*

Be it known that I, FRANK GUILLOT, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Clamping-Ears for Trolley-Wires, of which the following is a specification.

This invention relates to overhead electric railways, and its object is to provide an improved clamping ear or clip for suspending an overhead conductor from a trolley-pole arm, span wire or messenger wire. The ear comprises two jaws adapted to be slid into a holder in which they have a fulcrum bearing, so that when spread apart at their upper edges by a wedge their lower edges will engage the sides of the trolley wire.

In the accompanying drawing, Figure 1 is a side elevation of one embodiment of the invention; Fig. 2 is an end view of the same; Fig. 3 is a longitudinal section; and Fig. 4 is a perspective view of one of the clamping jaws.

The body portion or holder 1 is tubular, being substantially cylindrical and open on its lower side, forming a narrow longitudinal mouth. The body is provided with suitable means for suspending it, such for example as the fork 2 adapted to receive a rod 3, to which it can be secured by rivets 4. The two clamping-jaws 5 are slightly longer than the body 1. They have straight semi-circular upper portions or rounded enlargements 6 adapted to fit the inside of the holder when they are slid into it lengthwise. Their middle portions 7 are thin, to correspond with the narrow longitudinal mouth of the holder. The lower edges 8 of the jaws are hooked to enable them to engage in the grooves in the sides of the trolley wire 9. The upper edges 10 of the jaws are rabbeted to afford supporting shoulders 11 for a long slightly tapering and preferably square wedge 12. At one end of each jaw is a rib 13. The jaws are slid into the holder lengthwise, one from each end until the ribs 13 abut against the end of the holder. The hooked edges 8 are spread apart and slipped down over the trolley wire until they engage with its grooves. The wedge 12 is then driven in between the upper edges 10, forcing them apart and bringing the rounded

enlargements 6 into close contact with the walls of the holder, and causing the lower edges to grip the wire tightly; the lips 14 of the mouth serving as fulcrums on which the jaws pivot along their middle portions. One or both ends of the wedge can then be bent to keep it from slipping out.

This structure is exceedingly simple to make, since the holder and jaws can be cast. It can be quickly assembled, and set up in place by merely driving the wedge and bending over its end. The structure is strong and durable, and holds the trolley wire firmly; and yet it can be readily disengaged therefrom when necessary.

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

1. A clamping ear for trolley wires comprising a holder having two spaced fulcrums, two jaws disposed between and respectively engaging said fulcrums, and means for tilting said jaws upon said fulcrums into engagement with the trolley wire.

2. A clamping ear for trolley wires comprising a tubular holder having an open mouth along its under side, two jaws adapted to slide lengthwise into said holder having enlarged upper portions to engage therein, and means for forcing apart the upper edges of said jaws.

3. A clamping ear for trolley wires comprising a tubular holder having a narrow open mouth extending along its lower side, two jaws having hooked lower edges and rounded enlargements along their upper edges to fit into said holder, and a wedge adapted to force apart the upper edges of said jaws.

4. A clamping ear for trolley wires comprising a tubular holder having a narrow open mouth extending along its lower side, two jaws each having a rib at one end and adapted to pivot on the lips of said mouth, shoulders along the upper edges of said jaws, and a wedge supported on said shoulders.

In witness whereof, I have hereunto set my hand this 8th day of October, 1907.

FRANK GUILLOT.

Witnesses:

BENJAMIN B. HULL,  
HELEN ORFORD.