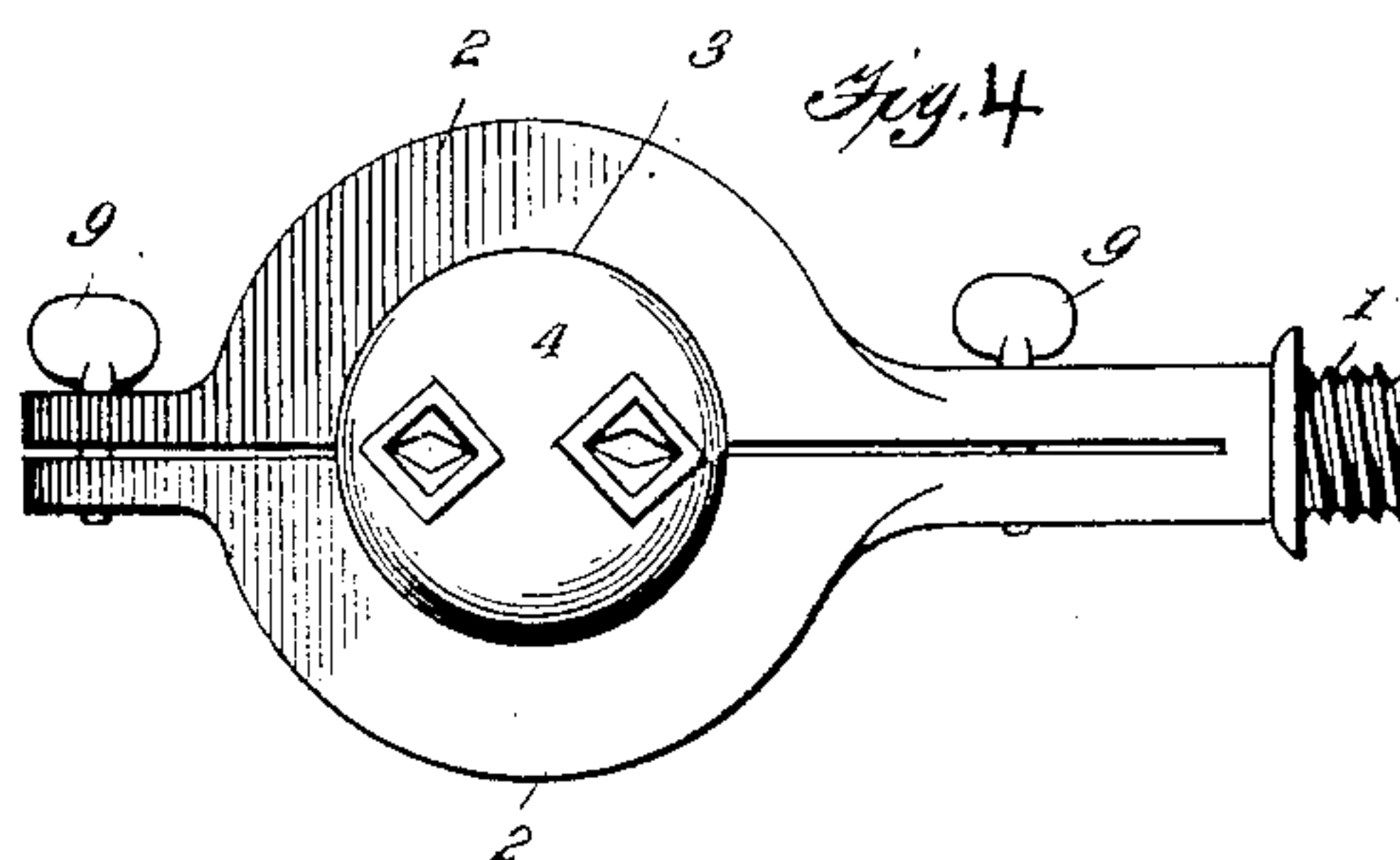
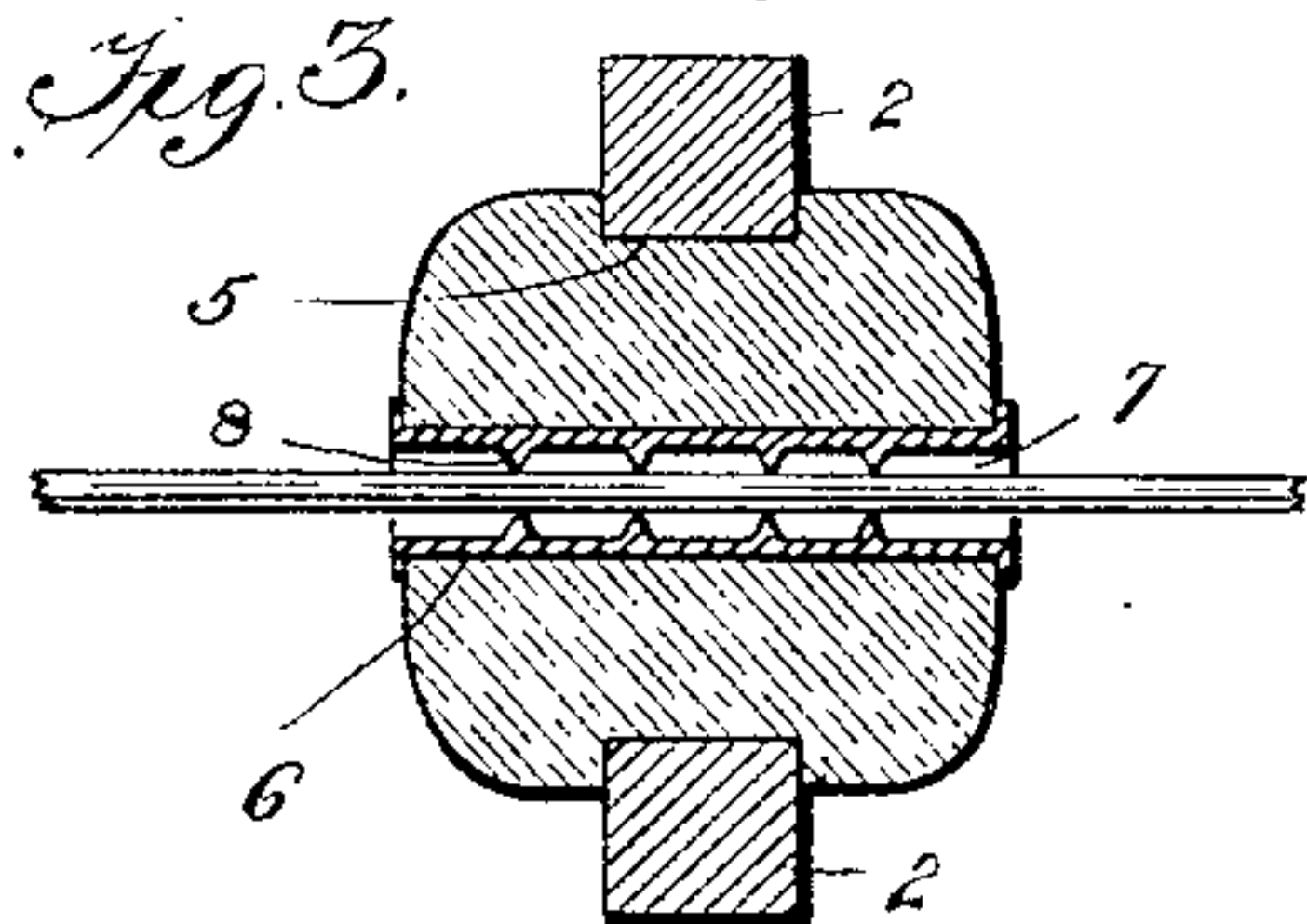
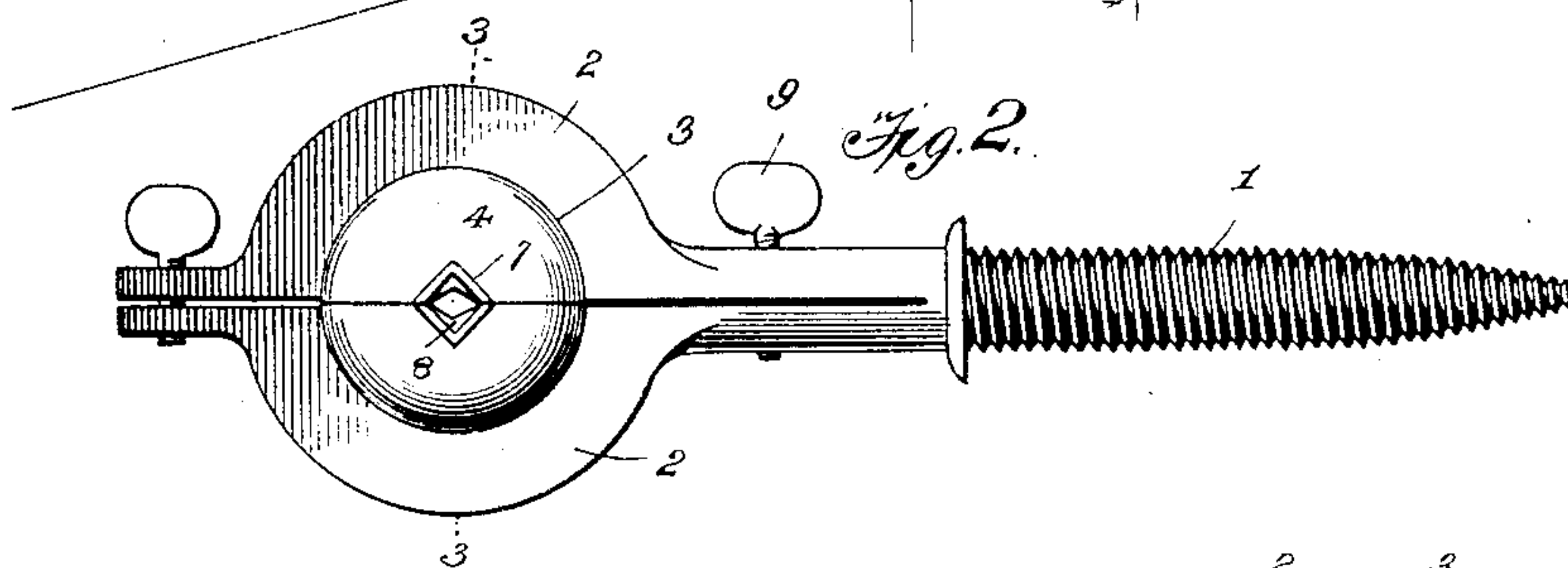
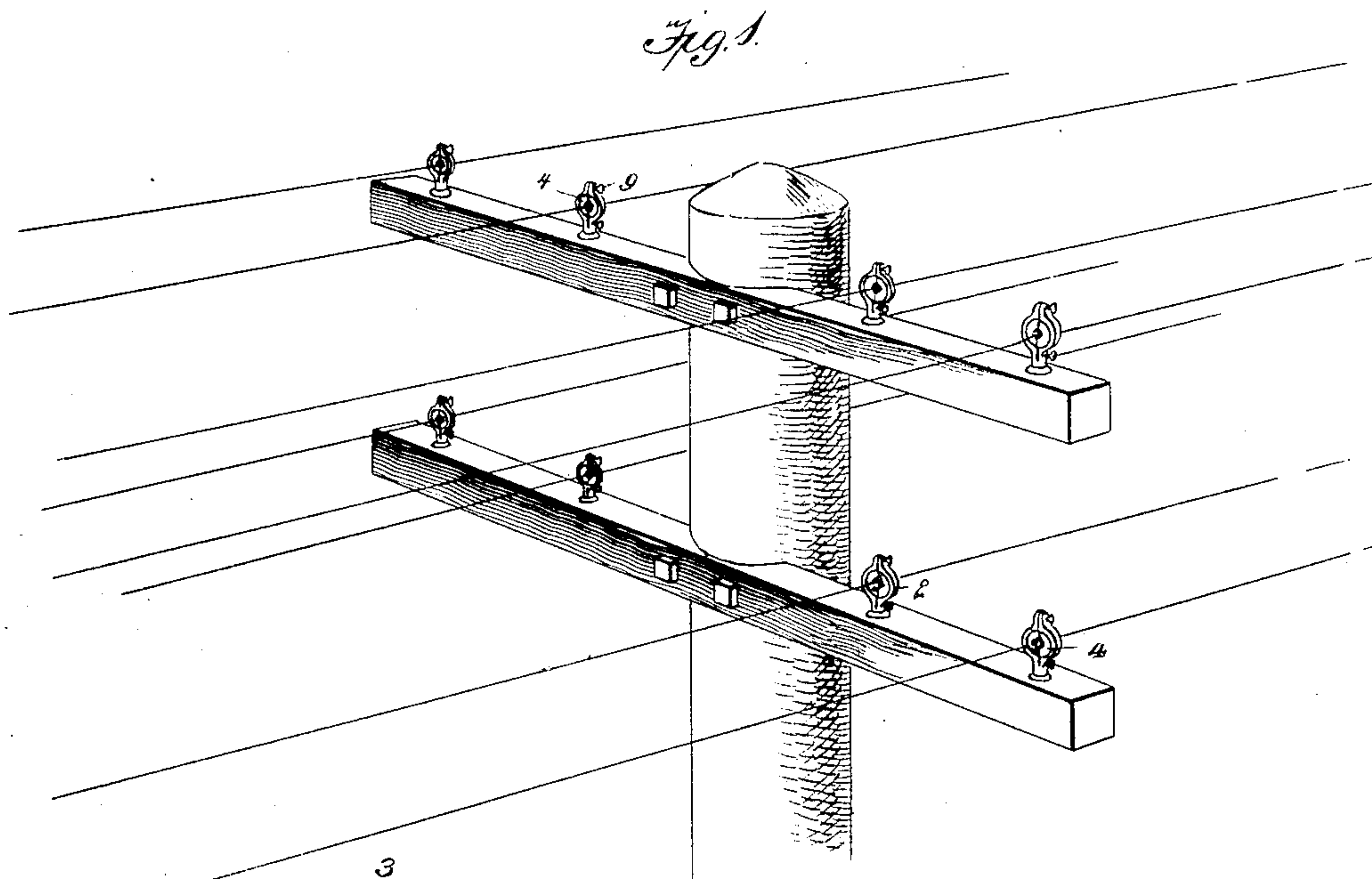


(No Model.)

E. RENAULT.
INSULATOR.

No. 583,692.

Patented June 1, 1897.



Witnesses

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UNITED STATES PATENT OFFICE.

EDWARD RENAULT, OF WALDO, FLORIDA.

INSULATOR.

SPECIFICATION forming part of Letters Patent No. 583,692, dated June 1, 1897.

Application filed January 20, 1897. Serial No. 619,930. (No model.)

To all whom it may concern:

Be it known that I, EDWARD RENAULT, residing at Waldo, in the county of Alachua and State of Florida, have invented a new and useful Insulator, of which the following is a specification.

This invention relates to insulators, and more particularly to that class of insulators adapted for use in connection with telegraph and telephone lines.

The object of my invention is to provide an insulator for convenient and effective use which can be quickly and substantially placed in position and as readily removed whenever it becomes necessary, also does away with the necessity for a separate tie-wire and brings the strain of the line-wire centrally across the supporting-pin instead of at the side thereof, as is used in the ordinary form of insulators, and precludes the possibility of twisting or wrenching the insulator from place. Further, my invention provides a clutch to prevent the line-wire from slipping through the insulator, and should the bulb be broken will prevent the wire from falling to the ground.

Further objects and advantages of my invention will be hereinafter more fully described, and particularly pointed out in the claim.

In the drawings forming a part of this specification, Figure 1 is a perspective view of my invention applied to the cross-arms of a telegraph-pole. Fig. 2 is a side elevation thereof. Fig. 3 is a transverse sectional view taken on the line 3 3 of Fig. 2. Fig. 4 is a detail perspective view of the insulator-bulb and supporting-pin.

Corresponding parts in the several figures are denoted by like numerals of reference.

Referring to the drawings, 1 designates the threaded shank of the supporting-pin, comprising the clamping jaws or members 2 2. These jaws are bent or curved intermediate their ends, as shown at 3, providing an approximately circular seat for the insulator-bulb 4. To prevent this bulb from slipping sidewise out of its seat, it is provided with a circumferential groove 5, into which the semi-circular-shaped portion of the clamping members 2 fit snugly. This bulb may be constructed in sections, as shown in Fig. 2, and each section provided with a longitudinal groove 6, in which is seated a metal gripping-plate 7, provided with lugs or spurs 8.

To place my invention in use, it is simply necessary to screw the threaded shank 1 into the cross-arm, bracket, or whenever to be used, the opening between the clamping members 2 forming a convenient place to insert a stick or other implement for setting the pin to its position. The sections of the insulator-bulb are then seated between the clamping members, the line-wire run through the groove 6, and the jaws tightly clamped by means of the set-screws 9. The wire is thus firmly suspended in position without the aid of an extra tie-wire, is held from slipping through the insulator by the action of the lugs or spurs 8 against said wire, and should the insulating-bulb break will prevent the wire falling from the support. By thus clamping the line-wire centrally and within the periphery of the support the strain is brought directly across the top and center of said support, which tends to hold same down solidly in position and cannot wrench, turn, or break the pin, as frequently happens with those insulators in which the wire is wrapped around or secured to one side thereof.

In Fig. 4 I have shown the insulating-bulb constructed of one piece and provided with two grooves for the reception of two wires. It is obvious that this and other changes in the form, proportion, and union details of construction may be made without departing from the scope or sacrificing any of the principles of my invention, and therefore I do not wish to be understood as binding myself to the precise construction and arrangement of parts as herein shown and described.

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

An insulator, comprising a pin or support, 1, having the clamping members 2, 2, formed integral therewith, an insulating-bulb, formed with the circumferential groove in which the members 2, 2, fit, the said bulb being provided with the interiorly-toothed sleeve through which the wire passes and is held by the teeth, and the set-screws located above and below the bulb for securing the clamping members together, substantially as shown and described.

EDWARD RENAULT.

Witnesses:

M. L. BECKHAM,

Mrs. J. J. BECKHAM.