

(No Model.)

S. H. STUPAKOFF.
BINDING POST FUSE.

No. 497,732.

Patented May 16, 1893.

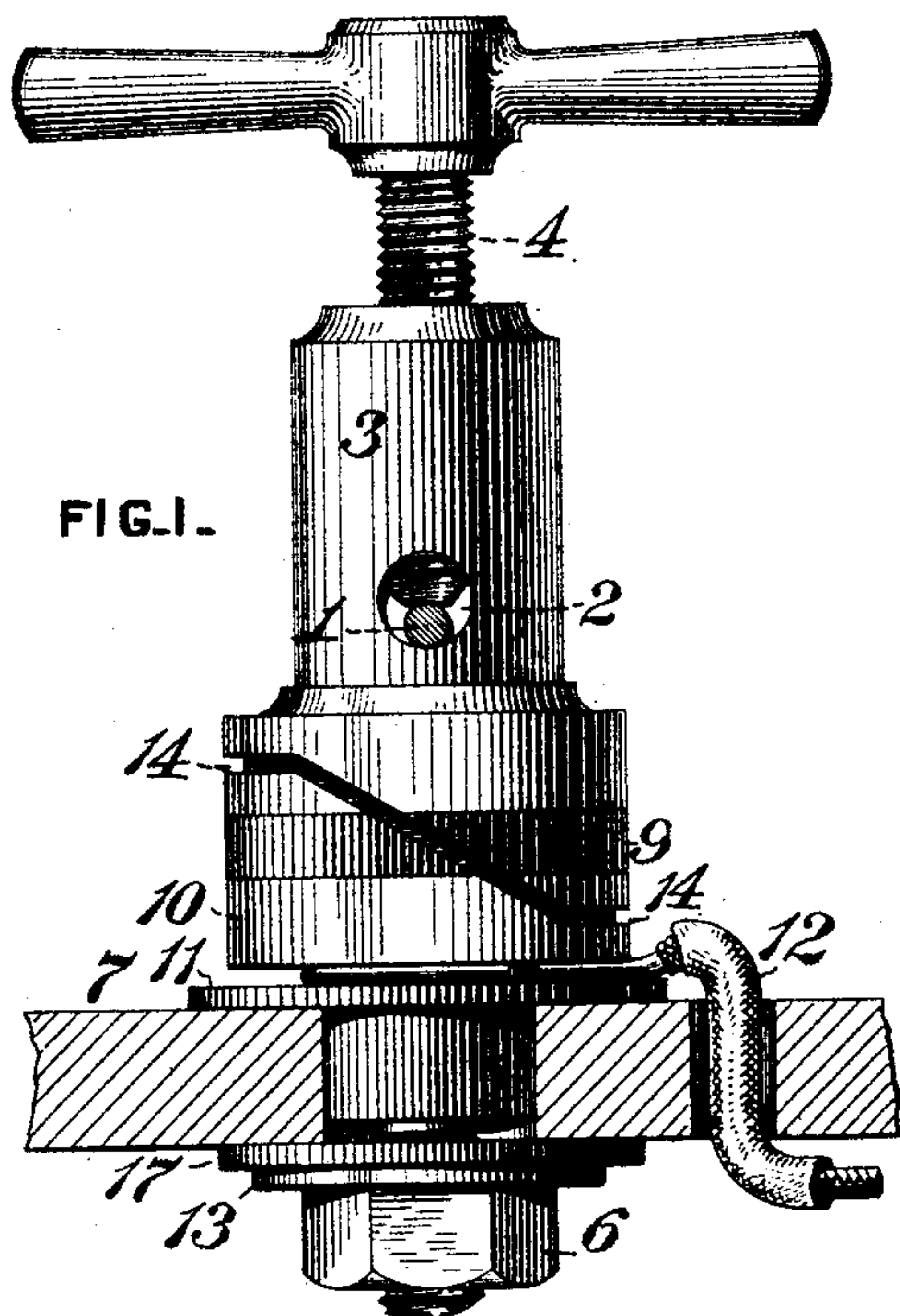


FIG. 1.

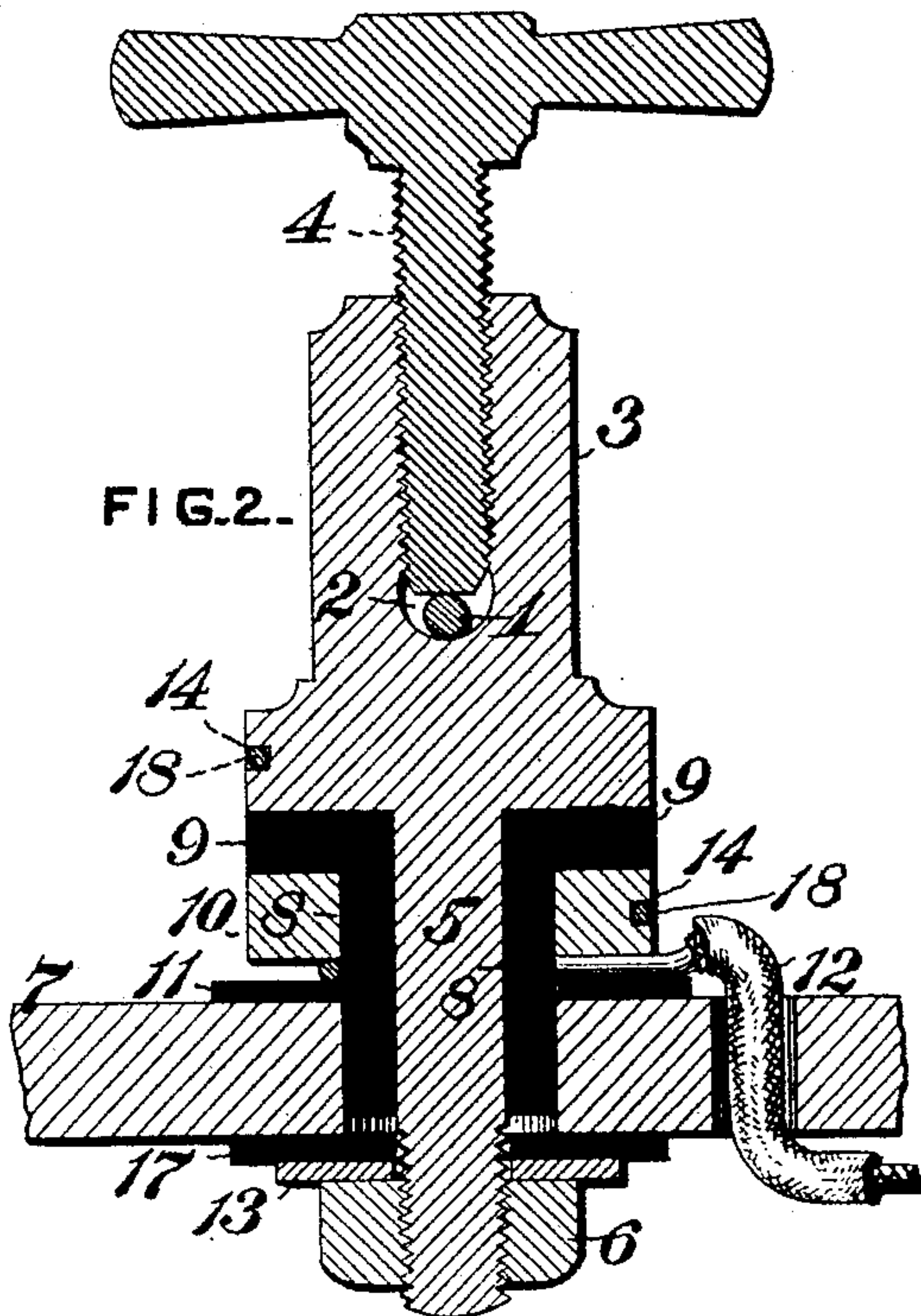


FIG. 2.

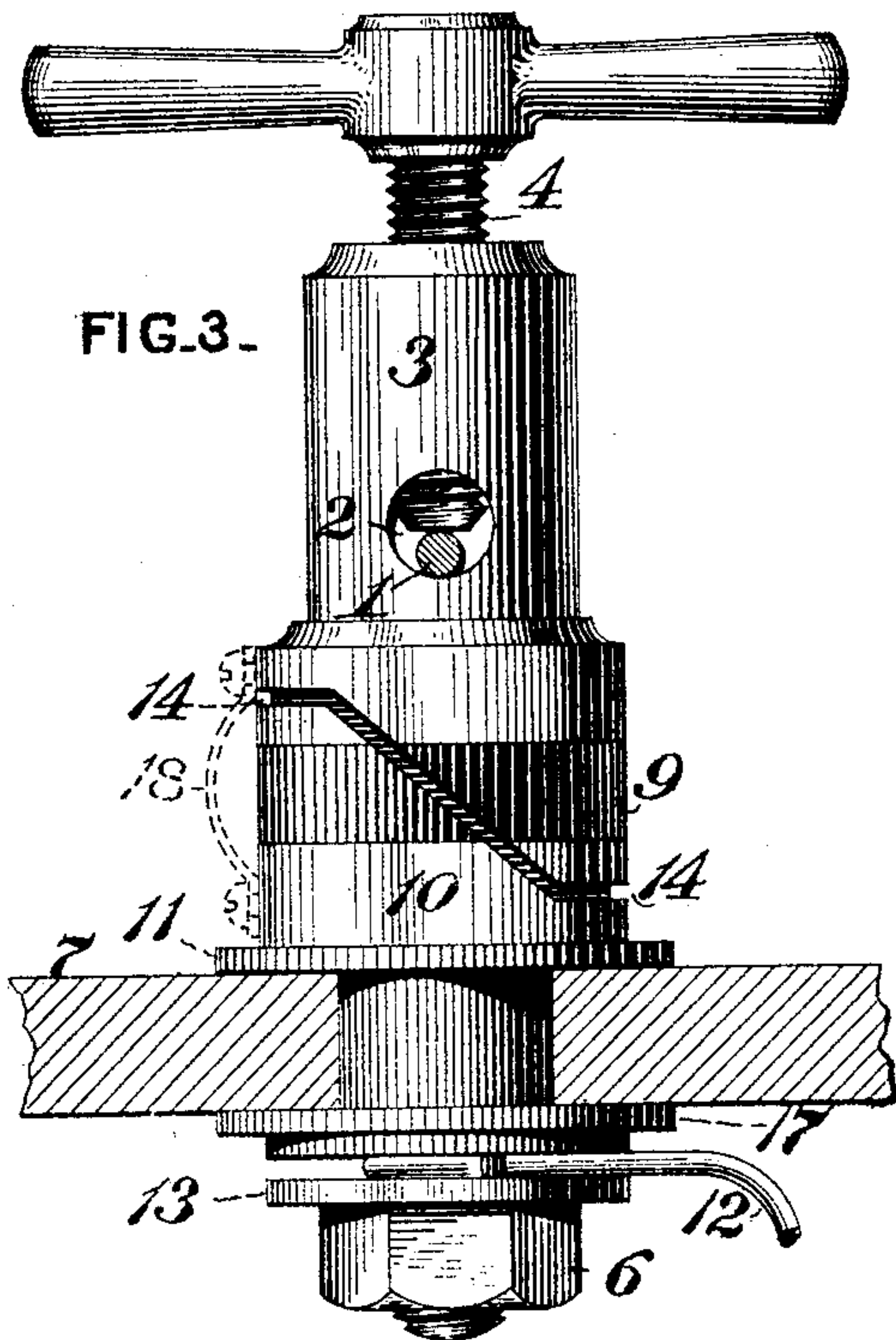


FIG. 3.

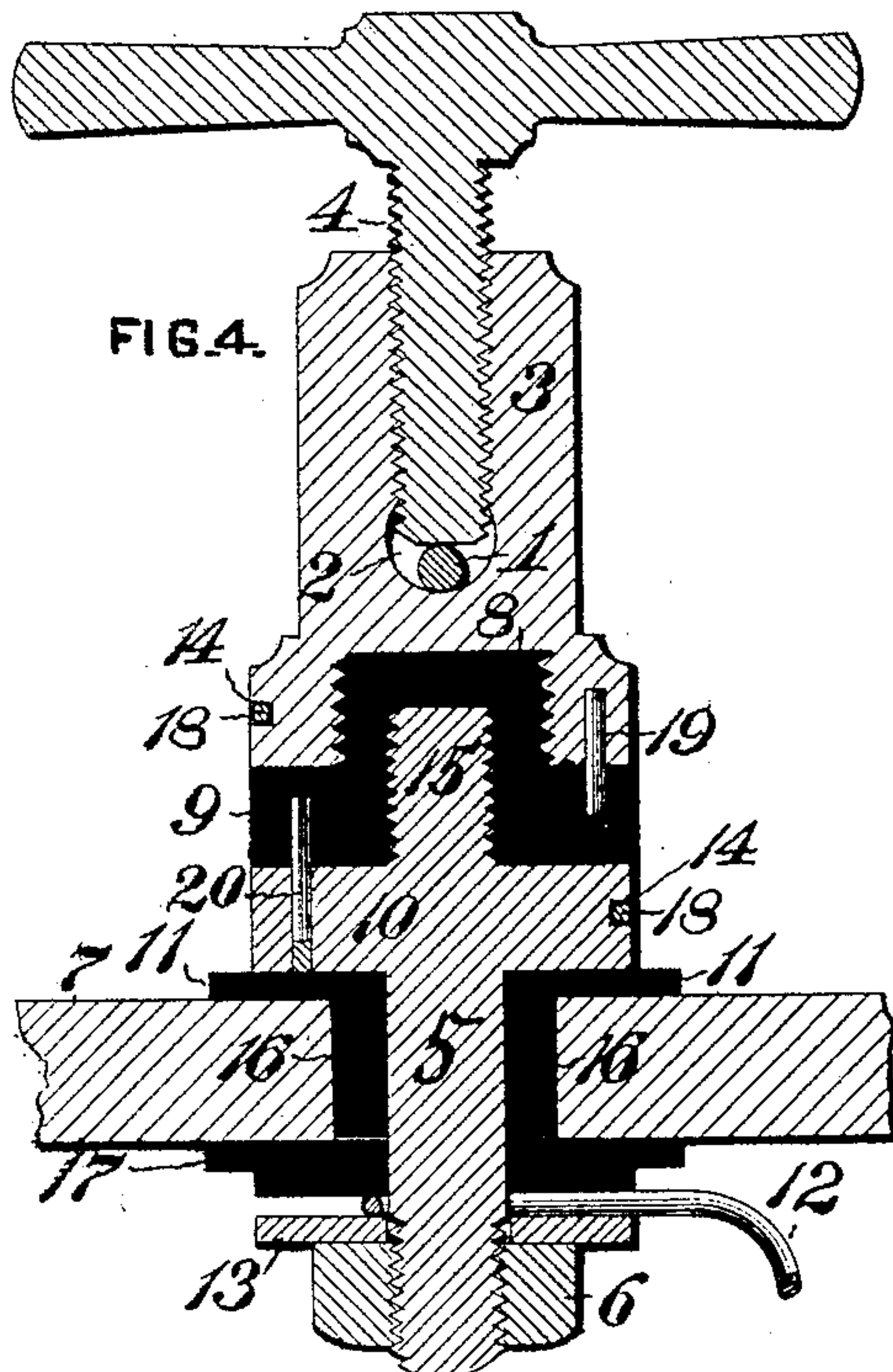


FIG. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

SIMON H. STUPAKOFF, OF PITTSBURG, ASSIGNOR TO THE UNION SWITCH AND SIGNAL COMPANY, OF SWISSVALE, PENNSYLVANIA.

BINDING-POST FUSE.

SPECIFICATION forming part of Letters Patent No. 497,732, dated May 16, 1893.

Application filed September 5, 1892. Serial No. 445,083. (No model.)

To all whom it may concern:

Be it known that I, SIMON H. STUPAKOFF, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Binding-Posts, of which improvements the following is a specification.

The invention described herein relates to certain improvements in binding posts, and has for its object a construction wherein is incorporated a fusible conductor connecting insulated portions of the post, the several parts of the device being so arranged and combined as to render the presence of the conductor necessary for the passage of a current.

In general terms the invention consists in the construction and combination substantially as hereinafter more fully described and claimed.

In the accompanying drawings forming a part of this specification, Figure 1 is a view in side elevation of my improved binding post. Fig. 2 is a sectional elevation of the same. Fig. 3 is a view similar to Fig. 1 of a modified form of the post, and Fig. 4 is a sectional elevation thereof.

In the practice of my invention, the end of one of the conductors 1 to be united by the binding post is clamped in the transverse opening 2 of the upper cylindrical portion 3 by the screw 4. The portion 3, which is formed of metal, is provided with a stem 5 threaded at its lower end for the reception of a nut 6 whereby the post is to the support 7. On the stem is slipped a sleeve 8 provided with a flange 9, the sleeve and flange being formed of insulating material, and onto the sleeve is slipped a metal annular block or ring 10, the sleeve and flange insulating the ring 10 from the cylindrical portion 3. It is preferred to interpose a washer 11 of insulating material between the ring 10 and the support 7. The end of the other conductor 12 is bent around the sleeve 8 between the ring 10 and washer 11, and is held in close contact with the metal ring by the clamping action of the nut. It is preferred to interpose a washer 17 of insulating material between the support 7 and the metal washer 13 against which the nut 6 bears. The cylindrical portion 3 and metal block or

ring 10, with the conductors 1 and 12 have electrical connection respectively, and are connected by a wire or strip of easily fusible metal, which is pressed into grooves 14 formed in the portion 3 and ring 10. These grooves are preferably made irregular as regards their longitudinal shape, and it is also preferred to groove the flange 9 connecting the grooves in the portion 3 and the block or ring so that the fusible strip may lie wholly within the surface of the binding post. The fusible strip is made slightly larger than the grooves so that it will be necessary to compress it somewhat in forcing it into the grooves, thereby insuring good electrical contact and preventing its accidental displacement.

In the construction shown in Figs. 3 and 4, the insulating sleeve is externally threaded so as to screw into a threaded socket in the portion 3, and is internally threaded for the reception of a threaded pin 15 on one side of the block 10, which in this construction is made solid in lieu of annular or ring shape, as in the construction shown in Fig. 2. The stem 5 is connected with the block 10, and is insulated from the support 7 by a sleeve 16 which is preferably formed integral with the washer 11. In this form of binding post the conductor 12 is bent around the stem 5 between the metal washer 13 and the insulating washer 17. The portions 3 and 10 of the binding post are electrically connected by a fusible strip 18 in the same manner as hereinbefore described. In lieu of arranging the fusible strip in grooves, the ends thereof may be wound around screws entering the parts 3 and 10 as indicated in dotted lines in Fig. 3, or electrical connection between said parts by means of a fusible strip may be made in any other suitable manner.

In order to prevent a disengagement of the parts, it is preferred to lock the sleeve 8 to the part 3 by a pin 19 driven through the flange 9 and into the part 3. The block 10 is similarly locked to the sleeve 8 by a pin 20.

This binding post with its fusible strip affords ample protection as against lightning or other heavy electric currents, and as by this construction the fusible strip is in the circuit forming an integral part thereof, a constant protection is afforded. As the fusi-

ble strip is in plain view, an operator can see at a glance whether the break in the circuit is due to the destruction of the fusible strip or not, and if so, can readily remedy the fault.

5 I claim herein as my invention—

1. A binding post having in combination two metal parts, one of said parts being provided with suitable means for securing the post to a suitable support, insulating material
10 interposed between the metal parts, means for connecting the ends of conductors to the metal parts, and an external strip of fusible metal electrically connecting the metal parts, whereby the strip may be applied without
15 disturbing any of the other parts of the post, substantially as set forth.

2. A binding post having in combination two metal parts having grooves formed in their outer walls, one of said parts being pro-
20 vided with means for securing the post to a suitable support, insulating material inter-

posed between the metal parts and a strip of fusible metal frictionally held in said grooves and forming an electrical connection between the metal parts, substantially as set forth. 25

3. A binding post, having in combination a metal part provided with means for connecting a conductor thereto, a metal block provided with means for securing it to a suitable support and adapted to be connected to
30 another conductor, insulating material interposed between the metal parts, and a strip of fusible metal frictionally held in grooves formed in the outer walls of the metal parts, and electrically connecting said parts, sub-
35 stantially as set forth.

In testimony whereof I have hereunto set my hand.

SIMON H. STUPAKOFF.

Witnesses:

DARWIN S. WOLCOTT,
R. H. WHITTLESEY.