

No. 744,631.

PATENTED NOV. 17, 1903.

E. F. SCHOENTHALER.  
INSULATOR.

APPLICATION FILED JUNE 16, 1903.

NO MODEL.

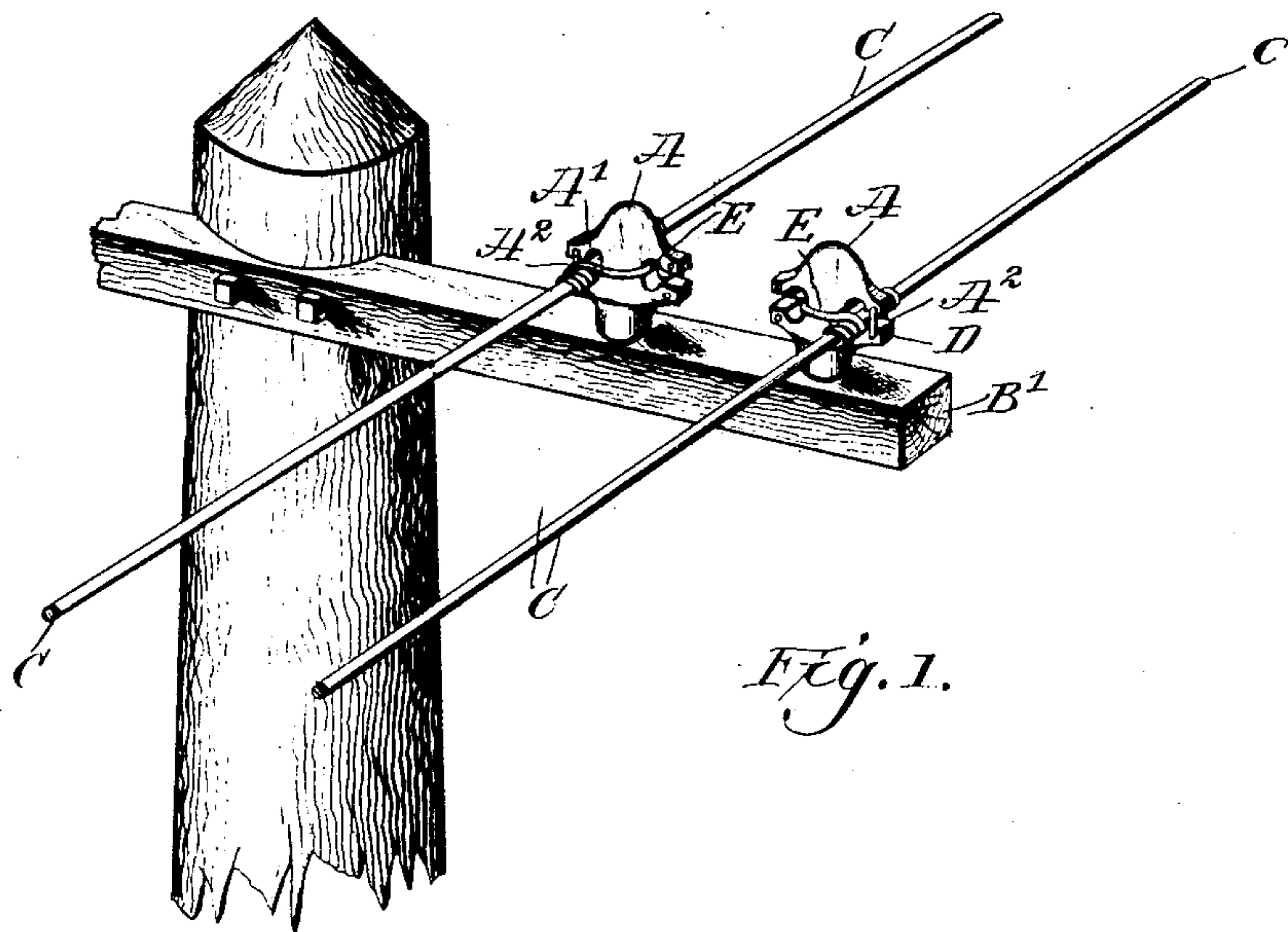


Fig. 1.

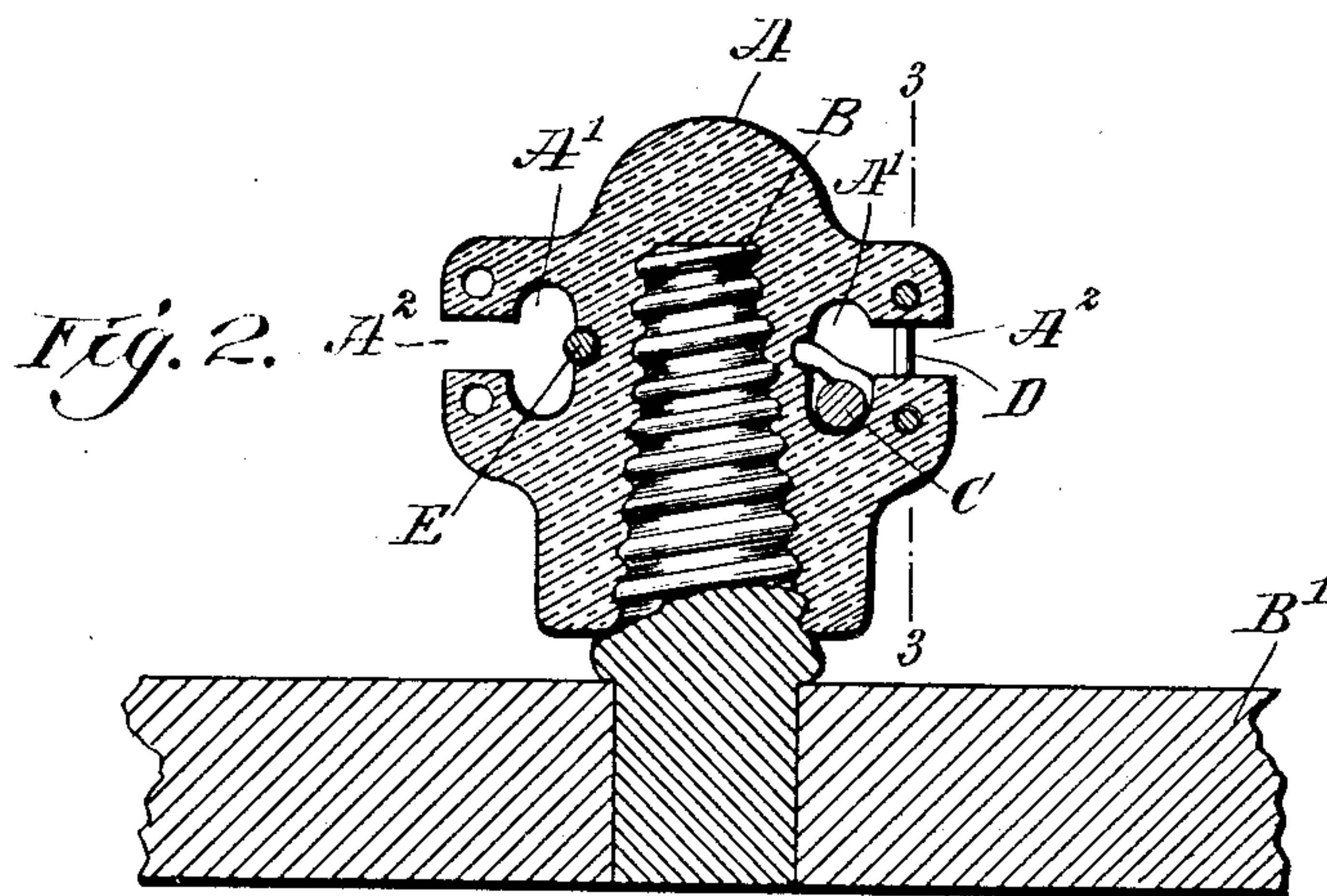


Fig. 2.

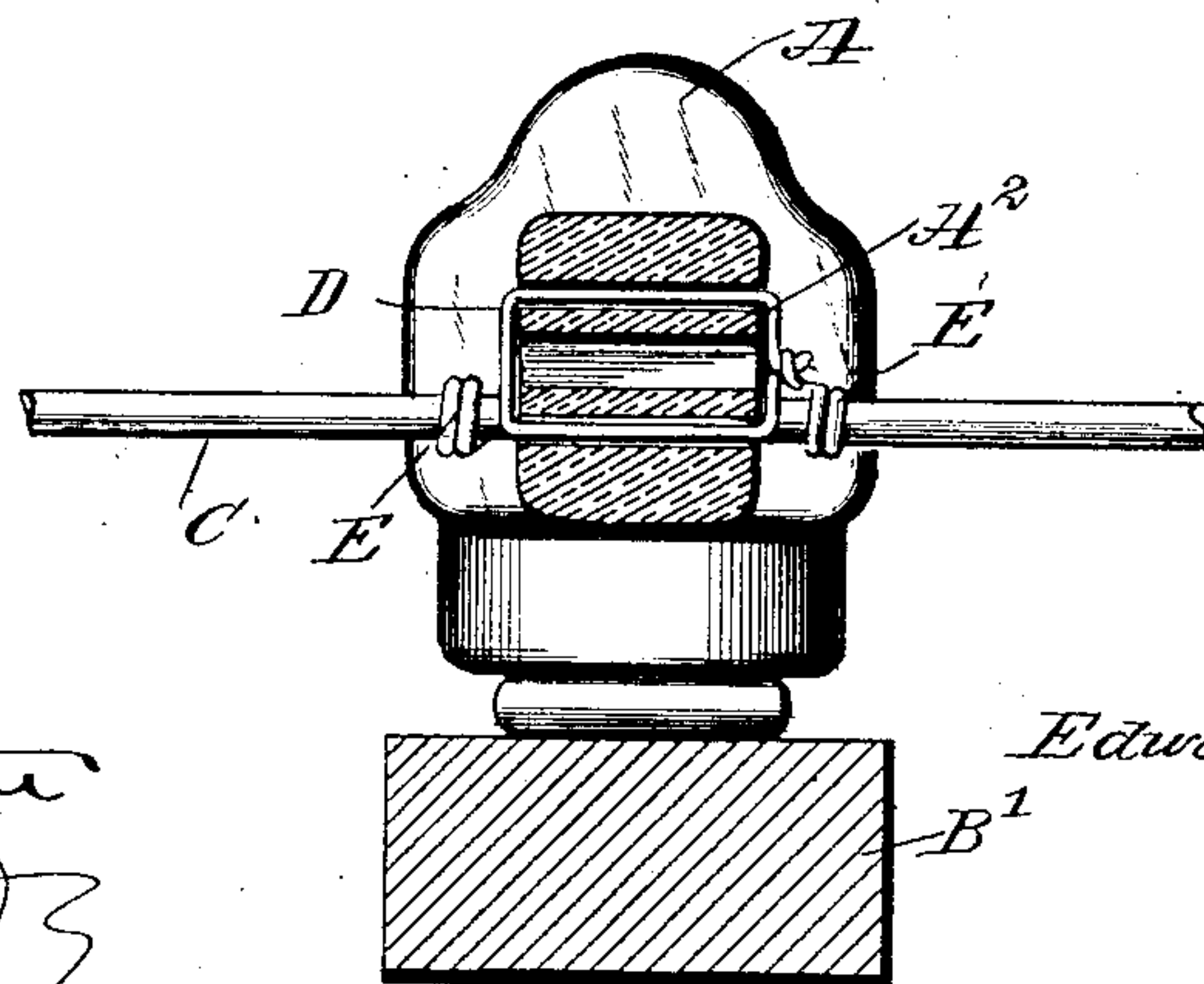


Fig. 3.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## INSULATOR.

SPECIFICATION forming part of Letters Patent No. 744,631, dated November 17, 1903.

Application filed June 16, 1903. Serial No. 161,703. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD F. SCHOENTHALER, a citizen of the United States, and a resident of Longbranch, in the county of Monmouth and State of New Jersey, have invented a new and Improved Insulator, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved insulator for telegraph, telephone, and electric-light wires arranged to permit convenient insertion of the wire to prevent accidental disengagement of the wire from the insulator and to allow free longitudinal and up-and-down movement of the wire in the insulator.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement as applied. Fig. 2 is an enlarged transverse section of the same, and Fig. 3 is a sectional side elevation of the same on the line 3 3 of Fig. 2.

The block A, of glass, porcelain, or other suitable insulating material, is mounted on the supporting-pin B of a cross-arm B' or other suitable support, and on each side of the block A is formed a longitudinally-extending opening A', elongated in a vertical direction and adapted to loosely receive wires C for the transmission of electricity. Access is had to each of the openings A' by a transverse slot A<sup>2</sup>, leading from the side of the block A into the opening A', at or near the middle thereof, as plainly indicated in Fig. 2, so that the wires C can be readily passed through the slot A<sup>2</sup> into the corresponding opening A'. After a wire is thus placed in position on the block A the slot A<sup>2</sup> is sealed or closed by a closing-wire D, passed through longitudinal openings formed in the block A above and below the slot A<sup>2</sup>, and the ends of this wire are twisted together, so as to form a loop which bars the wire C from passing out of the corresponding slot A<sup>2</sup>.

Now by the arrangement described each wire C is held against accidental displacement from the block A, owing to the closing-wire D closing the slot A<sup>2</sup> against the corresponding wire C; but the latter is free to move up and down, so that the wire is not liable to be broken or unduly stretched between adjacent telegraph-poles, especially if the insulators for a wire on adjacent telegraph-poles are on different levels.

The wire C is tied against lengthwise movement in the usual manner by a tying-wire E, secured at its ends on the wire C on opposite sides of the insulator and extending in a groove around the insulator, as plainly shown in the drawings.

By having two openings A' and slots A<sup>2</sup> on opposite sides of the insulator the latter is rendered segmental, and either opening may be used for a wire C.

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

1. An insulator for electric wires, comprising a block of an insulating material having a longitudinal opening elongated in a vertical direction, a slot leading into one side of the opening and an opening at each side of the slot, and a closing-wire for closing the said slot, said wire being passed through the said openings and having its ends secured together as set forth.

2. An insulator for electric wires, comprising a block of an insulating material and having a longitudinal opening in each side, the openings each being elongated in a vertical direction, a slot leading into one side of each opening, at about the middle thereof, and a longitudinal opening above and below the slot and a closing-wire on the said block, for closing the said slot, the closing-wire extending through the longitudinal openings above and below the said slot, the ends of the wire being twisted, to form a loop, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD F. SCHOENTHALER.

Witnesses:

F. W. HANAFORD,

EVERARD BOLTON MARSHALL.