

(No Model.)

D. A. BERTOLETTE.
ELECTRIC WIRE INSULATOR.

No. 450,384.

Patented Apr. 14, 1891.

Fig. 1.

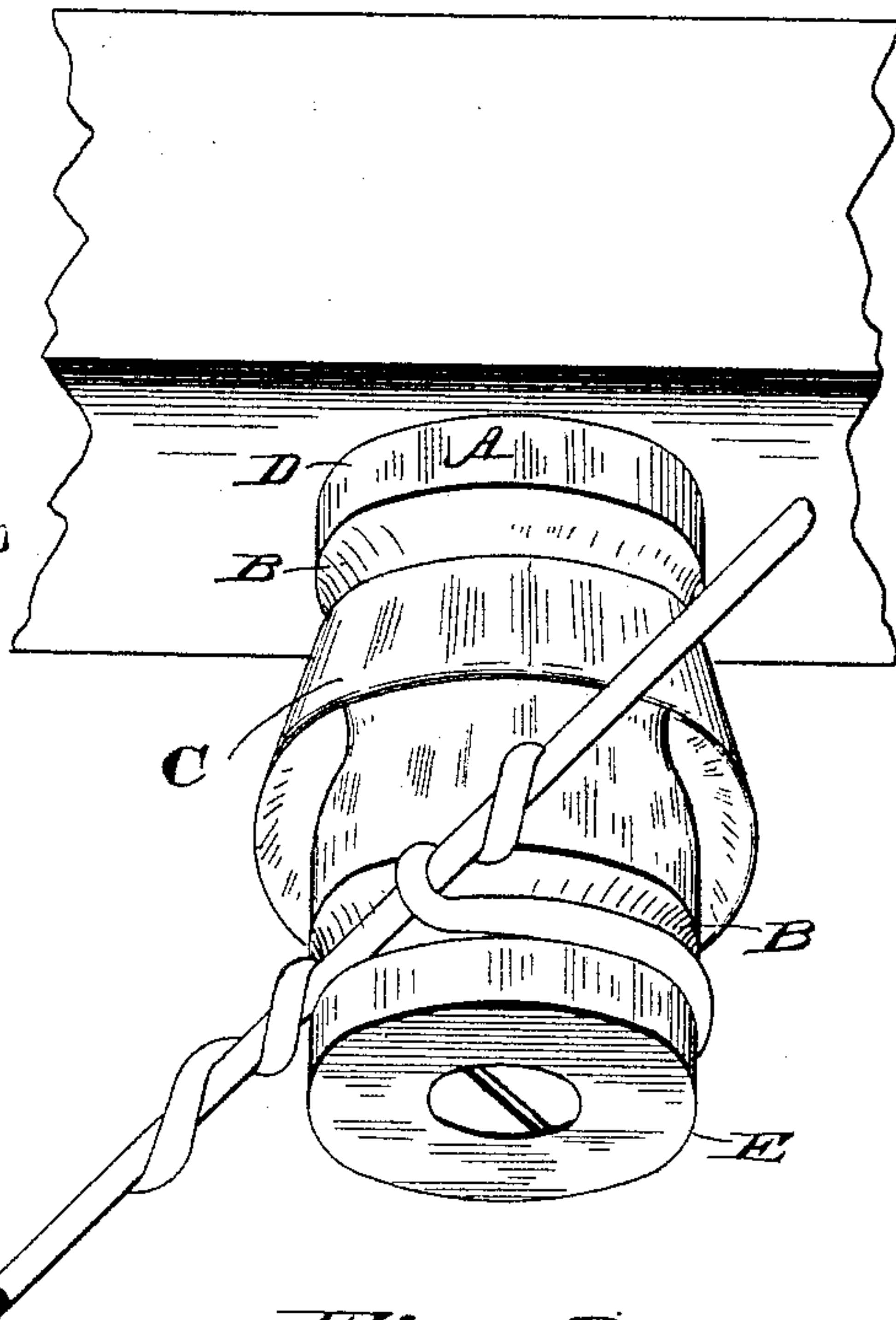
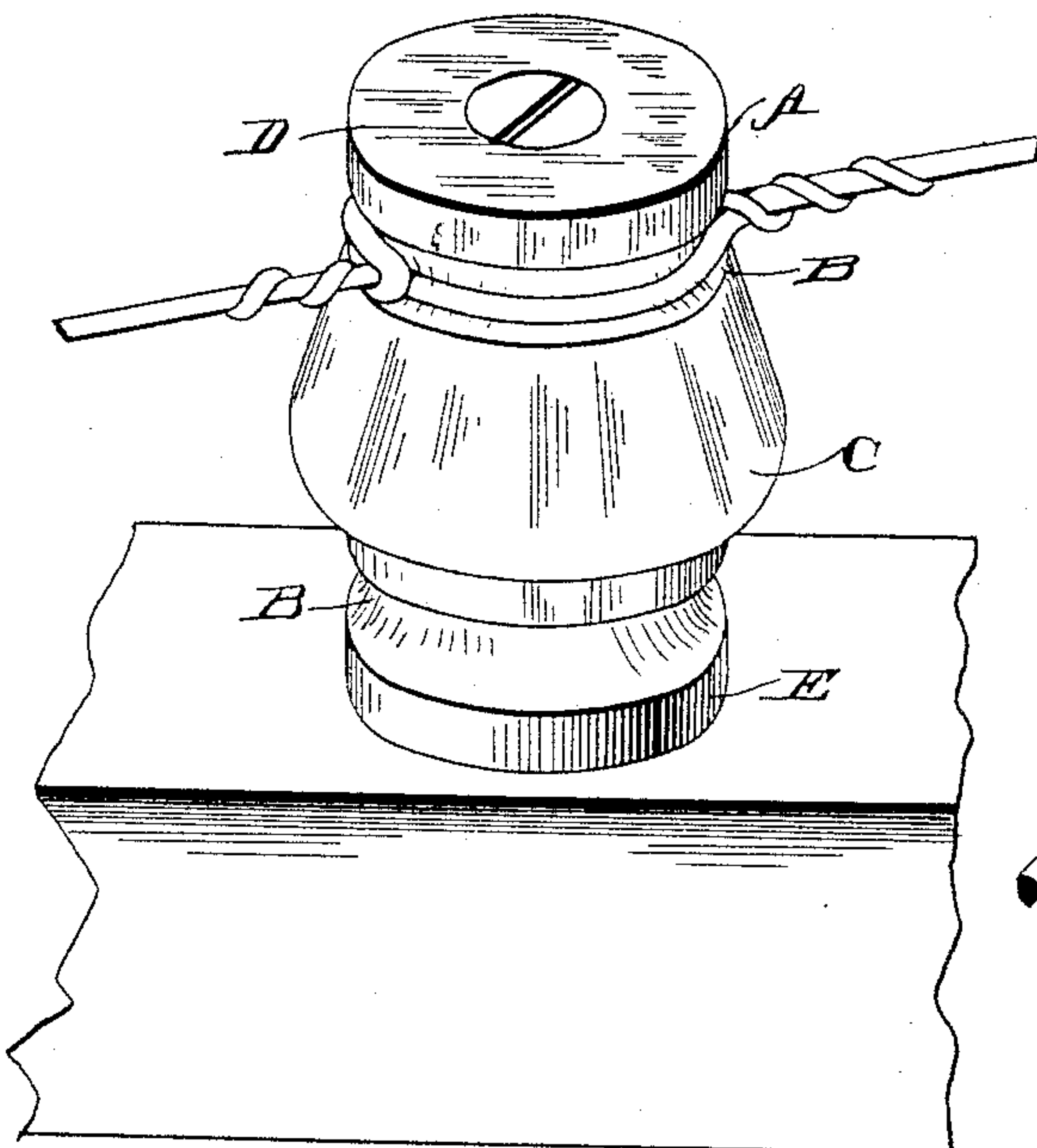


Fig. 2.

Fig. 3.

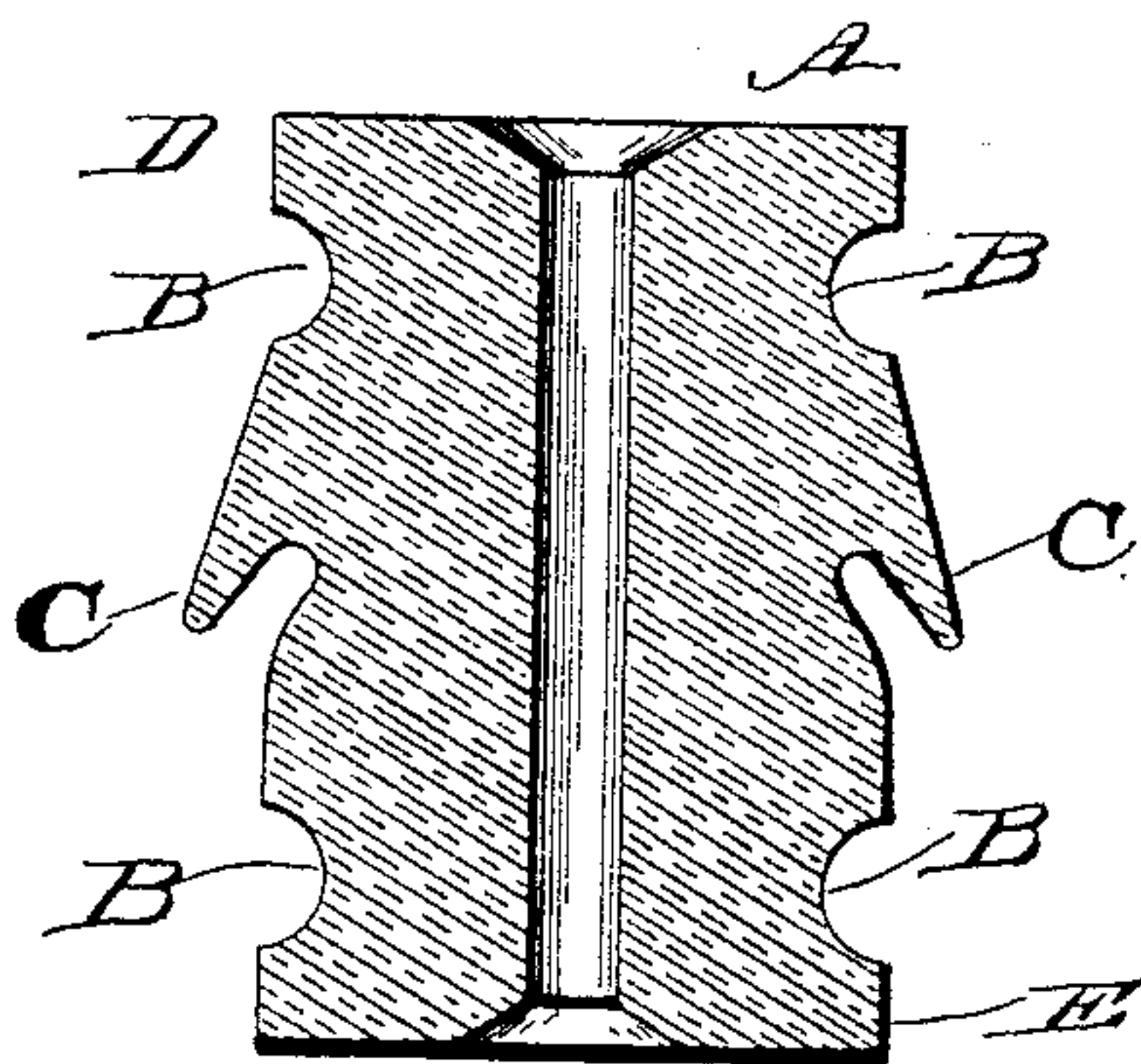
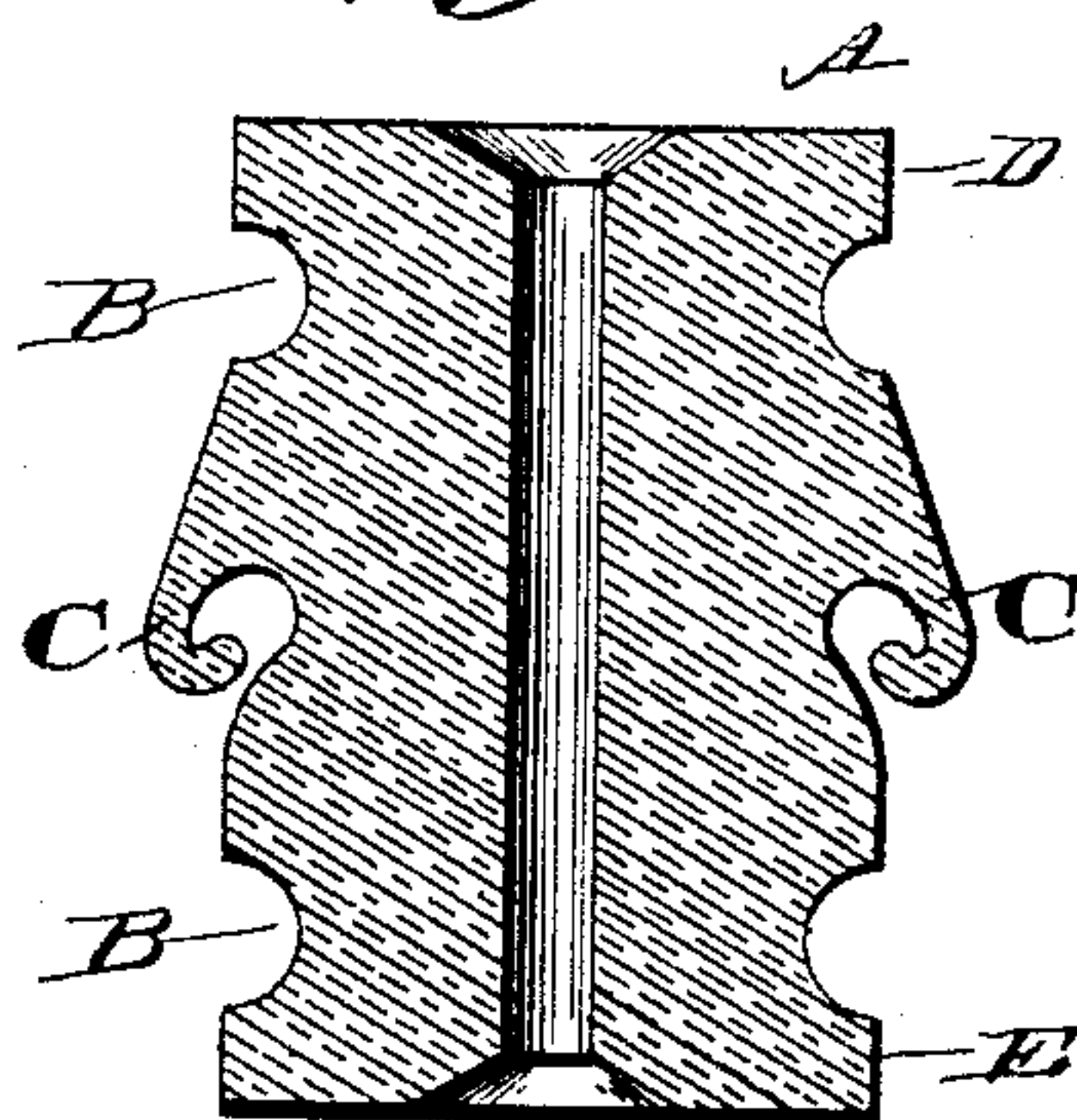


Fig. 4.



WITNESSES

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DANIEL A. BERTOLETTE, OF NORRISTOWN, PENNSYLVANIA.

ELECTRIC-WIRE INSULATOR.

SPECIFICATION forming part of Letters Patent No. 450,384, dated April 14, 1891.

Application filed December 12, 1890. Serial No. 374,484. (No model.)

To all whom it may concern:

Be it known that I, DANIEL A. BERTOLETTE, a citizen of the United States, residing at Norristown, in the county of Montgomery and State of Pennsylvania, have invented certain new and useful Improvements in Electric-Wire Insulators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in insulators for electric wires; and it consists of certain novel features of construction, which will be fully set forth in the following specification and accompanying drawings, and specifically pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of my improved insulator applied to use upon the upper side of the support. Fig. 2 is a similar view showing the insulator attached to the under side of the support. Fig. 3 is a longitudinal diametrical sectional view of the insulator, and Fig. 4 shows a slightly varied form or inclination of the lips.

The object of my invention is to always provide a dry section of the insulator between the wires carried thereon and the support to which the insulator is secured. By thus producing a dry section of the insulator it will be impossible to accidentally form a "ground" by the insulator becoming wet, as will be readily understood and appreciated.

My insulator consists, essentially, of a cylindrical body A, (though such form may be varied,) provided at either end with suitable grooves B, to which the wires are secured, while between said grooves I provide the projecting lip or inverted-cup-shaped projection C, which extends entirely around the body, as shown in the sectional view of the drawings. The inclination of said lips may be varied as preferred, though an angle of thirty to forty-five degrees, it is thought, will secure the best results. The lower edge of the lips may incline slightly inward and upward.

In using the insulator it is so secured to the support that the lips will always point downward—that is to say, when the insulator

is secured to the upper side of the support the screw or other securing device will be entered at the end D; but when the insulator is to be secured to the under side of the support, the screw or other securing device will be entered at the end designated E in the drawings. It will be seen from the construction disclosed that the outwardly and downwardly inclined lips effectively provide a sheltered section of the insulator, thus rendering it practically impossible that the entire area of the insulator become wet.

I am aware of the existence of Letters Patent Nos. 216,138, 415,504, 105,834, and 289,449, and have carefully studied the construction disclosed by said patents. The patent last referred to most closely resembles my invention; but by a careful analysis of the construction set forth it will be seen that a radical difference exists. In the last patent referred to—to wit, No. 289,449—no provision is made for enabling the insulator to be attached, excepting to an especially provided arm or projection, while my insulator may readily be secured to any convenient object, as it is provided its entire length with the diametrical hole or opening by means of which it is secured to any convenient object or support.

In operation my insulator is secured in the position desired and in the manner above set forth, and it will be seen that the outwardly and downwardly inclined lips will at all times provide a dry section around the body of the insulator, and thus accomplish the object for which the invention was conceived.

The insulator, it will be understood, is to be made of glass, porcelain, or other suitable non-conductor.

Believing that the advantages of my invention will be readily understood from the foregoing, considered in connection with the accompanying drawings, further reference thereto is deemed unnecessary.

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

1. An electric-wire insulator consisting of the body, the grooves at either end of said body, and the outwardly, downwardly, and

inwardly inclined lips adapted to protect a section of the body between said grooves from becoming wet, substantially as set forth.

2. An insulator constructed to adapt it to
5 be mounted in a vertical position either above or below its support, and consisting of the body A, formed with the flat end D, and the flat end E, having the central bore or opening extending entirely through it and acces-
10 sible from both ends of the body, grooves B,

arranged at each end of the body, and the cup-shaped projection C, providing a dry section around the body of the insulator between said grooves, substantially as set forth.

In testimony whereof I affix my signature in 15
presence of two witnesses.

DANIEL A. BERTOLETTE.

Witnesses:

DAVID Z. RABY,
GEORGE W. GROFF.