

O. J. FISHER.
INSULATOR.
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1,066,395.

Patented July 1, 1913.

Fig. 1.

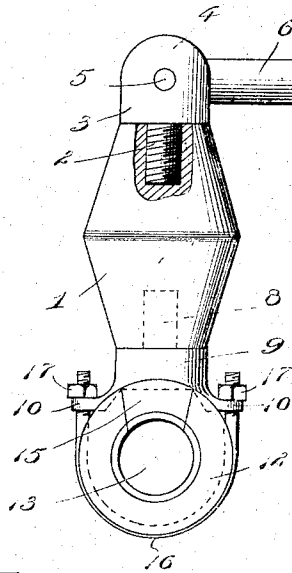
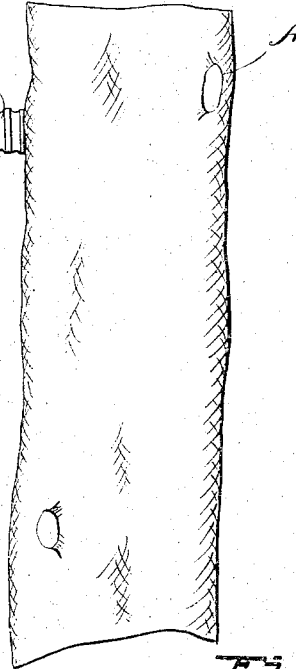


Fig. 2.

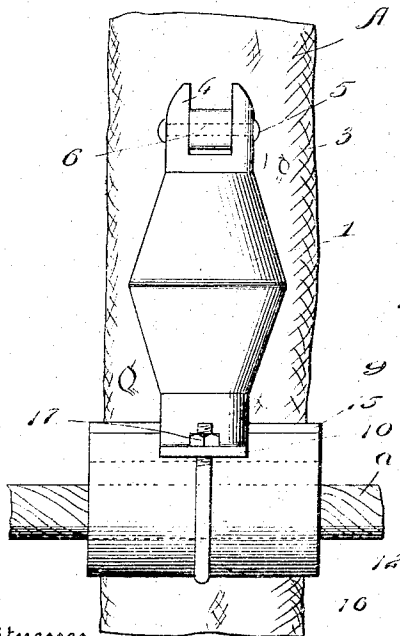
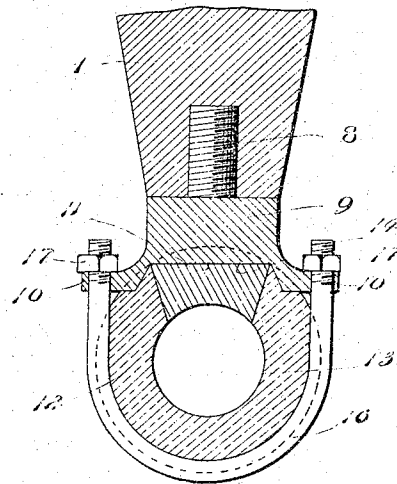


Fig. 3.



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INSULATOR.

1,066,395.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, OLIVER J. FISHER, a citizen of the United States of America, residing at Walpole, in the county of Norfolk and State of Massachusetts, have invented new and useful Improvements in Insulators, of which the following is a specification.

This invention relates to improvements in insulators and has particular application to insulators for suspending or holding a current carrying conductor upon a support such as a tree, pole or the like.

In carrying out my present invention, it is my purpose to provide an insulator whereby an electric current carrying conductor may be supported upon a pole, tree or the like and insulated therefrom in such manner as to prevent the grounding of abnormally heavy currents in the event of such currents passing through the conductor.

It is also my purpose to provide an insulator which shall embrace the desired features of simplicity, durability and efficiency coupled with cheapness of cost of manufacture and installation.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the claim.

In the accompanying drawing: Figure 1 is an end elevation of an insulator constructed in accordance with the present invention, the same being shown applied to a support. Fig. 2 is a side elevation of the same. Fig. 3 is an enlarged fragmentary sectional view thereof.

Similar reference characters designate like parts throughout the several views.

Referring now to the accompanying drawing in detail, 1 indicates the main body portion of an insulator constructed of suitable insulating material such as wood or the like. Threaded into the upper end of the body 1 is the shank 2 of a head 3 bifurcated to form spaced parallel apertured ears 4, 4 and pivoted between the ears 4, 4 by means of a pivot pin 5 is one extremity of an elongated shank 6 formed for a portion of its length with lag threads 7 adapted to be threaded into an object such as the pole A, as shown in Fig. 1. Thus, the body portion, by means of the pivot pin 5 may be swung about the shank 6 to facilitate the application of the electric current carrying conductor to the

support. Threaded into the free end of the body 1 opposite from the head 3, is the shank 8 of a connector 9 preferably of a contour similar to that of the body 1 and provided with oppositely disposed ears 10, 10 and formed intermediate such ears with a non-circular groove 11. Mounted within the groove 11 of the connector 9, is an insulating sleeve 12 preferably of cylindrical outline and composed of glass, or other insulating material of a like nature and provided with a centrally arranged opening 13 through which an electric current carrying conductor *a* is adapted to be passed. The portion of the insulating sleeve 12 within the groove 11 of the connector 9 is provided with a groove 14 of a shape identical to that of the groove 11 so that in the fastening of the sleeve to the connector 9 independent movement of the parts is prevented. In order to facilitate the application of the wire to the insulating sleeve 13 and to prevent mutilation of such wire when being applied to the sleeve, the portion of the sleeve, in contact with the connector 9 is cut out to provide a wedge block 15 designed to be removed from the remainder of the sleeve when it is desired to apply such insulator to the wire, the inclination of the walls of the sleeve, incident to the wedge shape of the block 15, serving to prevent mutilation of the conductor in the application of the same to the insulator.

The lugs 10, 10 project laterally and beyond the sleeve and receive the free extremities of a U-shaped strap 16 disposed within a groove in the sleeve, such ends of the strap being provided with nuts 17, 17, adapted to hold the insulating sleeve to the connector 9 through the medium of the strap 16.

From the foregoing description taken in connection with the accompanying drawing, the construction and manner of employing my invention will be readily apparent to those skilled in the art, and should the insulating sleeve become damaged it will be seen that the electric current carrying conductor would still be insulated from the shank 6 and the support A by the main body 1.

While I have herein shown and described one preferred form of my invention by way of illustration, it is to be understood that I do not confine myself to the exact details of construction herein described and delineated, as modification and variation may be

made within the scope of the claim and without departing from the spirit of my invention.

I claim:

- 5 An insulator comprising a body portion, a shank threadedly engaging one end of the body portion and having a bifurcated end provided with alining apertures, an elongated shank having one end pivoted with
10 the bifurcated end of the shank by means of a pivot pin passed through the said apertures and having the opposite end thereof threaded to engage an object, a connector secured to the opposite end of said body portion
15 tion and provided with oppositely disposed

ears and a non-circular groove between said ears, an insulating sleeve having a portion conforming to the contour of the groove in said connector and disposed within said groove, and a U-shaped strap surrounding
20 said insulating sleeve and having the free ends thereof passed through the ears on the said connector, whereby accidental displacement of the sleeve from the body is avoided.

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

OLIVER J. FISHER.

Witnesses:

LEO J. HEBERT,
LEVI MATTOCKS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."