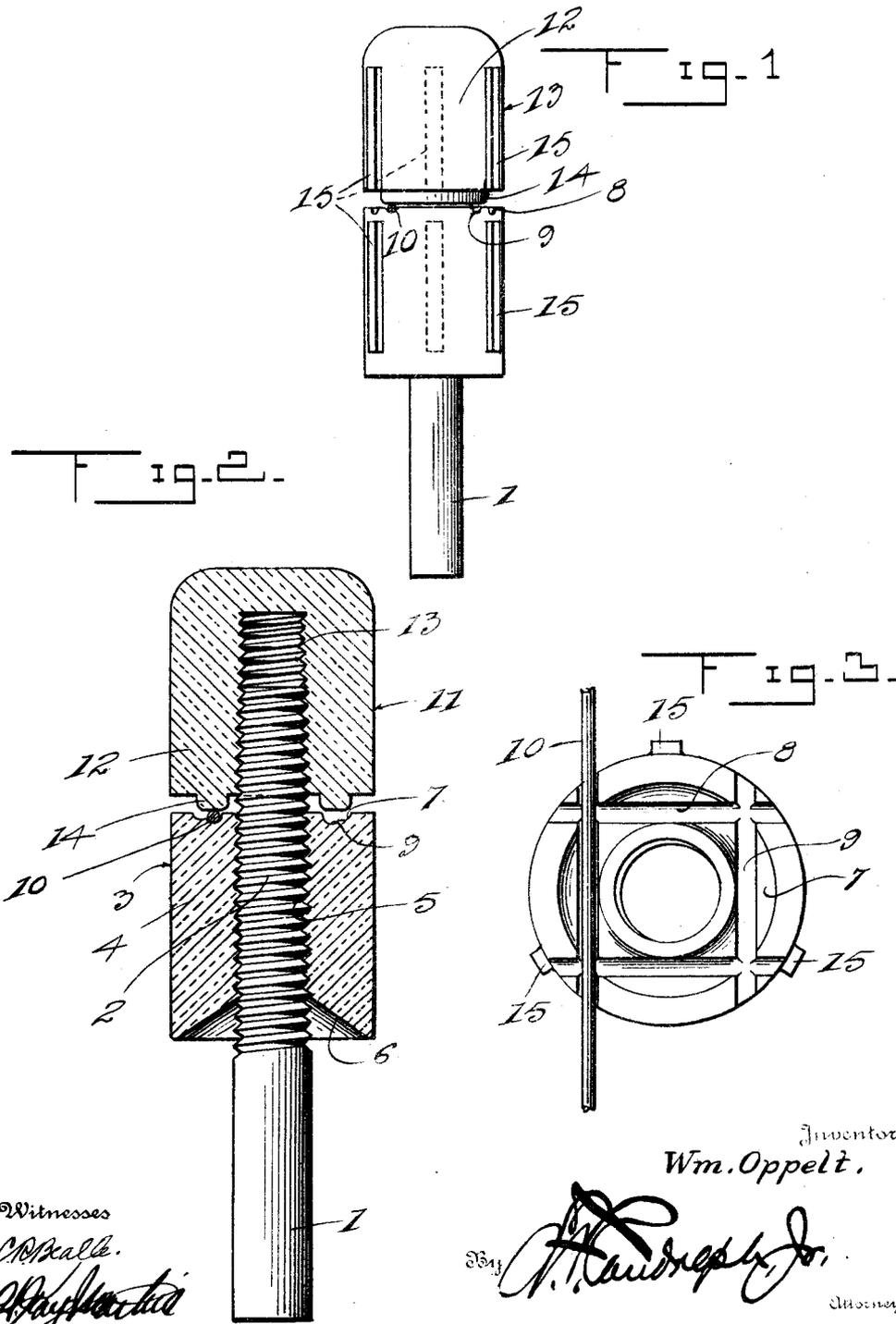


W. OPPELT.
INSULATOR.
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1,167,208.

Patented Jan. 4, 1916.



Witnesses
C. M. Kalle.
H. J. Kalle.

Inventor
Wm. Oppelt.
A. J. Kalle, Jr.
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM OPPELT, OF METUCHEN, NEW JERSEY, ASSIGNOR OF ONE-THIRD TO HARRY K. GAMBER, OF HARRISBURG, PENNSYLVANIA.

INSULATOR.

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To all whom it may concern:

Be it known that I, WILLIAM OPPELT, a citizen of the United States, residing at Metuchen, in the county of Middlesex and State of New Jersey, have invented certain new and useful Improvements in 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.

This invention relates to new and useful improvements in insulators, and has for its principal object to provide an insulator in which the necessity of using the tie wires to hold the conductor wires in place thereon, is eliminated.

Another object of the invention is to provide an insulator which will effectively clamp and hold the line wire.

A further object of the invention is to provide an insulator having a number of grooves through which the wires extend.

Still another object of the invention is to provide a novel means for firmly gripping the wire and holding the same in place.

With these and other objects in view, the invention consists in the novel combination and arrangement of parts which will be fully set forth in the following specification and accompanying drawings, in which,

Figure 1 is a view in elevation of an insulator constructed in accordance with this invention, Fig. 2 is a vertical sectional view of the device on an enlarged scale, and Fig. 3 is a top plan view on an enlarged scale of the lower portion of the insulator.

Referring to the drawings by characters of reference, the numeral 1 designates the stem or support for the insulator, the upper end of which is screw threaded as at 2. This stem or support is of the usual construction used in connection with insulators of the ordinary type and is carried on the cross arms of the wire-supporting poles. The base member of the insulator, which is designated generally by the numeral 3, comprises a cylindrical body of glass or similar insulating material 4, which is provided with the longitudinal screw threaded bore 5 which coöperates with the stem 2 in holding the device in place. The under side of this body is recessed as at 6 to form a guide for the threaded end 2 of the support 1. Formed in the upper end of the cylindrical

body is an annular groove 7 which is designed to coöperate with the annular rib on the upper member which will be more fully hereinafter described. Extending tangential to the inner edges of the groove 7 are the grooves 8 and 9 which extend at right angles to each other as clearly shown in Fig. 3. These grooves are for the reception of the line wire, which is designated by the numeral 10.

Coöperating with the base member 3 is the upper member designated generally by the numeral 11, and this upper member comprises a cylindrical body 12 having formed therein the internally screw threaded bore 13 which extends to a point near the upper end of the body and is arranged to be threaded on to the threaded end 2 of the stem 1. An annular rib 14 is formed on the under face of the body 12 and alines with the groove 7 as clearly shown in Fig. 2.

In order to provide a means to tighten the base member 3 and upper member 11 against each other, there are provided the longitudinally extending ribs 15 which are formed at spaced intervals on the periphery of the bodies and form lugs for engagement with a wrench or other suitable instrument by which the insulator may be tightened.

It will be apparent from the foregoing that in use the base member 3 is threaded on to the stem or support 1 and the line wire 10 is then placed in one of the grooves 8 or 9. The cover member 11 is then threaded on the end of the stem and tightened against the base member so that the rib 14 will firmly clamp the line wire into the groove and frictionally hold the same in place.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that such changes may be made in the combination and arrangement of parts as will fall within the spirit and scope of the invention as defined in the appended claim.

What is claimed is:

An insulator of the character described including a cylindrical base member having a centrally located, longitudinally extending, internally screw threaded bore extending throughout its entire length, ribs formed exteriorly of the base member and arranged to form a means to permit a gripping element to be used to tighten the base member in place, the under side of the base member

having a depression therein to act as a guide in placing the same in position, the upper side of the base member being formed with an annular groove and having parallel grooves extending thereacross, a cover member having a central, longitudinally extending, internally screw threaded bore, ribs formed externally of the cover member to provide a gripping means, and an annular

rib on the under face of the cover member 10 arranged to aline with the annular groove to clamp a line wire in place.

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

WILLIAM OPPELT.

Witnesses:

EDWD. A. BURROUGHS,
GEO. C. CARMAN.