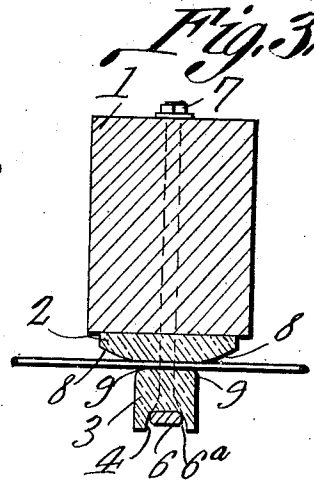
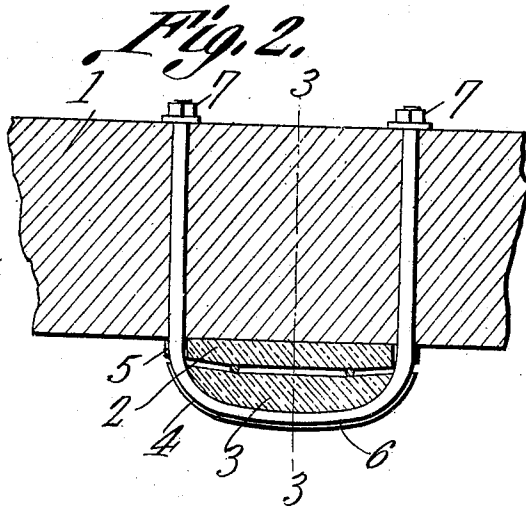
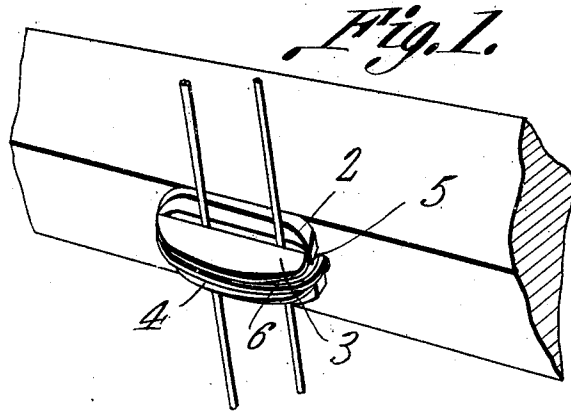


T. D. CHILDRESS.
INSULATOR.
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996,312.

Patented June 27, 1911.



Witnesses:

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UNITED STATES PATENT OFFICE.

THORNTEN D. CHILDRESS, OF ANSTED, WEST VIRGINIA.

INSULATOR.

996,312.

Specification of Letters Patent. Patented June 27, 1911.

Application filed September 27, 1910. Serial No. 584,141.

To all whom it may concern:

Be it known that I, THORNTEN D. CHILDRESS, a citizen of the United States, residing at Ansted, in the county of Fayette and State of West Virginia, have invented a new and useful Insulator, of which the following is a specification.

This invention relates to insulators, such as are employed in suspending telephone, telegraph, and overhead trolley wires.

The object of the invention is to provide an article of this character that shall be exceedingly simple in construction, efficient and durable in use, easy to apply to position, and which, while firmly clamping the wires, shall be so constructed as not to injure the same by cutting due to wind vibrations.

With the above and other objects in view as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of an insulator as will hereinafter be fully described and claimed.

In the accompanying drawing forming a part of this specification and in which like characters of reference indicate corresponding parts: Figure 1 is a view in perspective of a portion of the arm of a telegraph or trolley pole displaying the insulator of the present invention applied thereto. Fig. 2 is a vertical transverse sectional view through the insulator and trolley pole arm showing the arrangement of parts. Fig. 3 is a horizontal sectional view taken on a line 3—3 of Fig. 2 and looking in the direction of the arrows thereon.

Referring to the drawing, 1 designates a portion of the arm of a telegraph or trolley pole, although it might indicate any other suitable support such as a fence post or the like, or may lie in any position that will be most convenient in attaching the insulator or applying the wires.

The insulator comprises two members, a base member 2 and a cap member 3, these being made of any suitable insulating material, preferably glass or porcelain. The cap member 3 is provided with a groove 4 throughout the entire extent of its outer surface and the base member is provided in its ends with grooves 5 and these two sets of grooves are designed to be engaged by the crest or bend 6 of a U-bolt, the arms of

which project through the support and are secured in position thereagainst by nuts 7. In order to lessen the danger of breaking the cap member when tightening the nuts, the bend 6 of the bolt that bears upon the outer surface of the cap member is flattened in cross section with rounded edges, as shown at 6^a in Fig. 3, this construction of the bolt operating to distribute the strain and prevent any wedging action such as would result if the bolt were circular in cross section. As seen in Fig. 2, the opposed faces of the two members are by preference slightly rounded in a direction transverse to the length of the electric wires which are clamped between them, this obviously being for the purpose of shedding water out of the insulator when the latter is placed flat on a horizontal support. The inner corners of the cap member are preferably rounded off as at 9 adjacent said wires and the outer face of the base member is rounded off as at 8 and this member made considerably wider than the cap member, as clearly shown in Fig. 3, thus to preclude any danger of cutting of the wire from wind vibration.

The groove for the cap member is shown of greater depth than the thickness of the bend of the bolt that engages it; but this is not essential, as the groove might be of the same depth as the thickness of the bend without departing from the spirit of the invention.

The two members are adapted for clamping electric wires of any size from the smallest telegraph to the largest conductor wire, and in any position in which it is employed this insulator will be found thoroughly efficient for the purpose designed.

As will be noted more particularly by reference to Fig. 2, the outer face of the cap member is rounded, thus to give a neat and finished appearance to the device, and to adapt it to be secured by a U-bolt such as shown. It will be obvious that the improvements could be carried out in connection with a cap member having its outer surface straight.

I claim:

An insulator comprising base and cap members of insulating material rounded off on their adjacent faces and corners, the base member being wider along the line of the wires than the cap member and the latter

provided in its outer surface with a groove
extending transversely to the length of said
wires; combined with a U-bolt whose bend
is flattened in cross section and with its
5 corners rounded and whose arms pass astride
said base member and into a support, the
bend lying in the groove of the cap member.

In testimony that I claim the foregoing
as my own, I have hereto affixed my signa-
ture in the presence of two witnesses.

THORNTEN D. CHILDRESS.

Witnesses:

J. E. WISEMAN,
R. L. SMITH.

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