H. L. HOYBOOK.

INSULATOR SUPPORT FOR LINE WIRES.

APPLICATION FILED MAR. 14, 1912.

1,047,059. Patented Dec. 10, 1912.

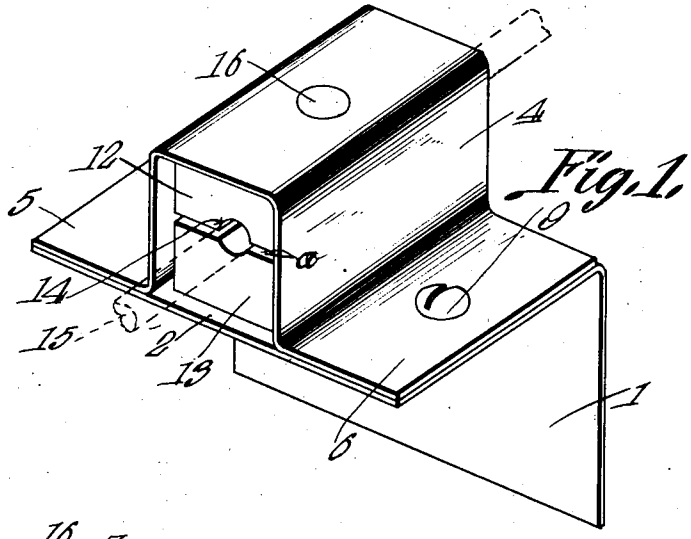

Fig. 1.

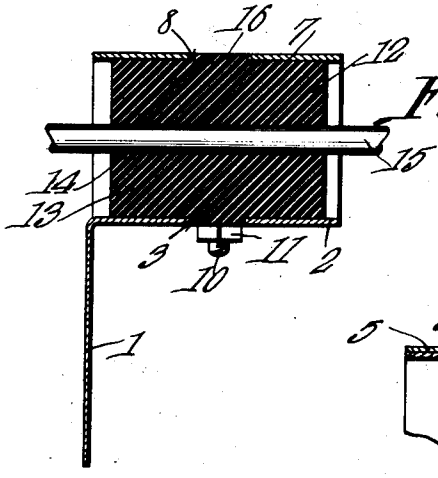

Fig. 2.

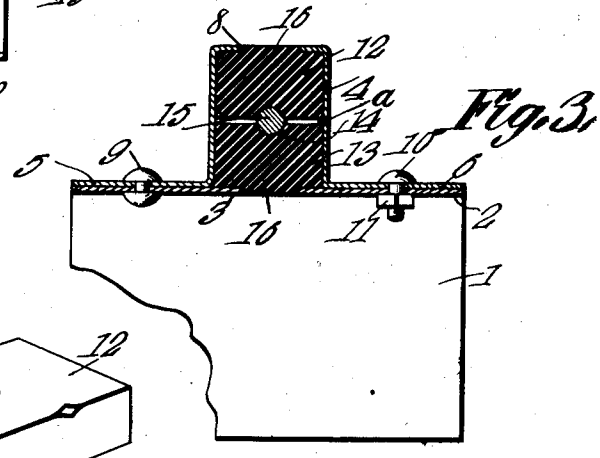

Fig. 3.

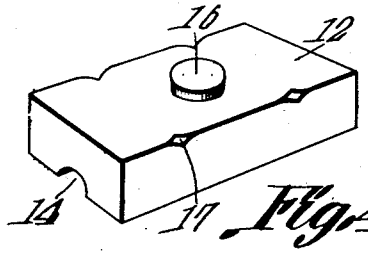

Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY L. HOYBOOK, OF TYLER, TEXAS.

INSULATOR-SUPPORT FOR LINE-WIRES.

1,047,059. Specification of Letters Patent. Patented Dec. 10, 1912.

Application filed March 14, 1912. Serial No. 683,786.

To all whom it may concern:

Be it known that I, HENRY L. HOYBOOK, a citizen of the United States, residing at Tyler, in the county of Smith and State of Texas, have invented a new and useful Insulator-Support for Line-Wires, of which the following is a specification.

The present invention relates to improvements in insulator supports for line wires, the primary object of the invention being the provision of a novel form of support that is readily attachable to the usual cross arms used upon telephone and telegraph poles or upon the novel form of circular insulator support as set forth in the application for patent filed and wherein a separable insulator is properly supported within a protecting, preferably metallic, casing, so that the line wire may be readily placed in position and permitted the usual longitudinal movement due to contraction and expansion, and at the same time be so supported that no sidewise movement is permitted.

A further object of the present invention is the provision of a main carrying plate which may be readily attached to the usual wire supporting arms and having pivotally connected thereto an insulator retaining plate, the insulator being a special insulator disposed to receive the line wire therebetween and itself co-acting with the supporting plate and casing to be retained in the same against longitudinal movement.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings—Figure 1 is a perspective view of the complete insulator and support. Fig. 2 is a longitudinal sectional view of a support and insulator showing the line wire in position. Fig. 3 is a section taken on line 3—3 of Fig. 2. Fig. 4 is a perspective view of one of the insulator members *per se*.

Referring to the drawings, the numeral 1 designates the supporting portion of the main support which is made L-shaped in side elevation and carries the platform 2, which is provided with the central aperture 3, the purpose of which will presently appear.

The insulator casing 4 is made of a single sheet of metal and is bent to form the oppositely extending wings 5 and 6 which rest upon the upper surface of the plate 2 and provide the insulator receptacle, which is open at two ends and is provided with the aperture 8 which is disposed above and in alinement with the aperture 3 of the plate 2. By means of the rivet or other fastening means 9, the wing 5 is secured to the plate 2 so as to permit the casing movement relatively to the plate 2, and as the metal of the casing 4 is flexible, the same may be bent backward so as to permit of the insertion of the insulation sections 12 and 13 as will presently appear. In order to lock the wing 6 and consequently the casing 4 in relative position to the support, a bolt 10 and nut 11 is provided.

The insulator as before stated comprises two identical members 12 and 13, each one of which is provided with the longitudinal recess 14 for the reception of the line wire 15, these sections being further provided with the cylindrical lugs or studs 16 which when the device is assembled projects within the respective apertures 3 and 8 and thereby retain the members 12 and 13 against longitudinal movement while the lugs 16 are also retained within the casing 7 in the position as shown. To further assist in the positioning of the insulator sections, the indentations 17 are formed upon the edges thereof as shown in Fig. 4 and the casing 4 may be correspondingly shaped to receive the same so as to provide an additional or auxiliary means to the studs 16.

From the foregoing description, taken in connection with the drawings, it is evident that the insulator sections 12 and 13 when in line wire supporting position are properly held against longitudinal movement and as such sections are normally spaced apart as at *a*, various sized line wires may be readily accommodated and held properly in position, and when in such position the longitudinal contraction and expansion of the line wire 15 is readily provided for.

What is claimed is:

An insulator and support, comprising a bracket carrying a plate with an aperture therethrough, an insulator embracing member pivotally mounted upon the plate for lateral swinging movement, said embracing

member having a non-circular intermediate portion provided with an aperture disposed to aline with the aperture of the plate when in insulator supporting position, a two-part insulator provided with a wire receiving groove and with two oppositely extending studs for registration with the apertures of the plate and the embracing member, and means for clamping the embracing member to the plate to retain the embracing member against longitudinal movement and the insulator between the embracing member and plate.

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

HENRY L. HOYBOOK.

Witnesses:
J. J. LEWIS,
W. B. BURT.