

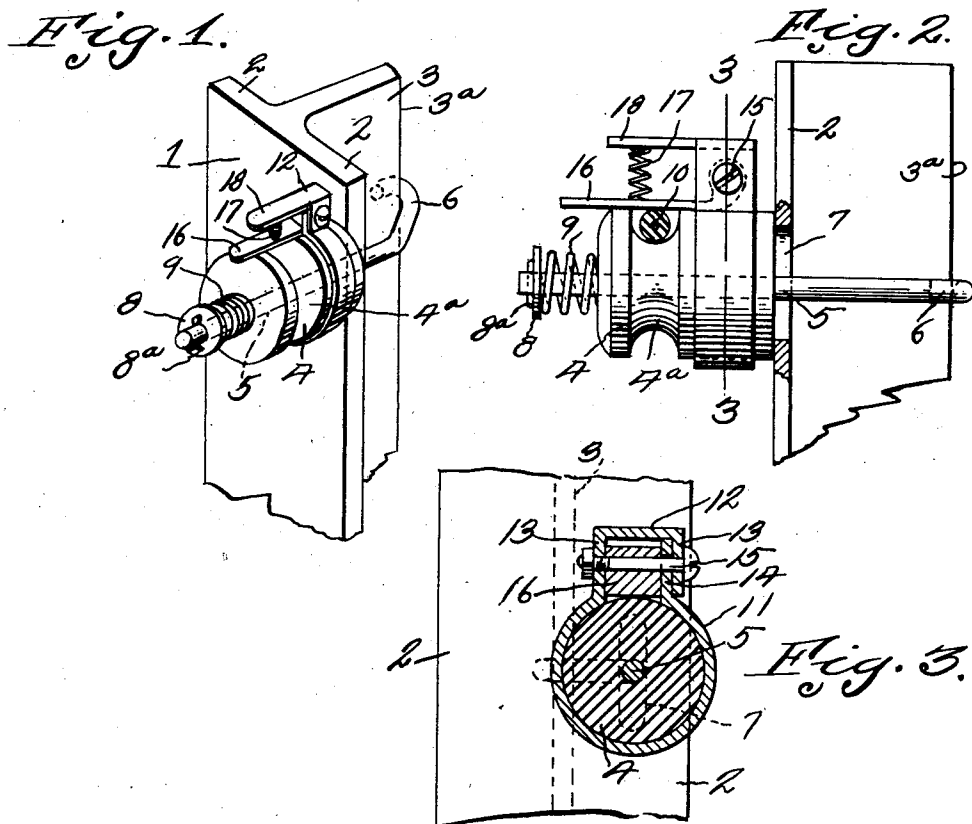
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INSULATOR

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INSULATOR

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2 Claims. (Cl. 174-163)

The invention relates to electrical insulators, and has for its object to provide an insulator constructed in a manner whereby it may be easily and quickly attached to metallic fence posts, and particularly to posts T-shaped in transverse cross section.

A further object is to provide the insulator with an axially disposed shaft normally forced outwardly by spring means and the shaft, at one end, provided with a hooked portion adapted to be extended through an aperture in a flange of the post and hook over the outer edge of an adjacent flange.

A further object is to provide an insulator support for attaching an insulator to a T-shaped metallic post with spring means cooperating with the support and post for detachably connecting the support to the post.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawing, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing:

Figure 1 is a perspective view of the insulator, showing the same attached to a conventional form of metallic fence post.

Figure 2 is a side elevation of the insulator and portion of the fence post, part being broken away to better show the structure.

Figure 3 is a vertical transverse sectional view through the insulator taken on line 3-3 of Figure 2.

Referring to the drawing, the numeral 1 designates a vertically disposed T-shaped fence post having flanges 2 and 3. To attach insulators for fence conductor wires of this construction, it is extremely difficult, and to accomplish this result the insulator 4 is provided with an axially movable supporting shaft 5, the inner end of which is provided with a hook 6 which is received through a vertically elongated aperture 7 in one of the flanges 2, and which hook hooks over the outer edge 3a of the flange 3. The outer end of the shaft 5 is provided with a washer 8 held in place by a key 9, and interposed between the washer 8 and the insulator 4 is an expansion spring 9. In applying the device to the fence post, it is only necessary for the operator to pass the hooked end 6 of the shaft 5

through the aperture 7 and partially rotate the hook so it will be in position to engage the outer edge of the flange 3 when pressure is released on the expansion spring 9. It will be seen that the insulator will be held in close binding engagement with one of the flanges 2 of the post and that the insulator can be easily placed in position or removed. The insulator 4 is provided with a conductor wire receiving groove 4a for the reception of a conductor wire 10.

Extending around the insulator 4 in spaced relation to the metallic post is a metallic band 11, one end of which terminates in a rectangular shaped portion 12 having registering portions 13. The other end of the band 11 is provided with an arm 14 which engages the inner side of the portion 13 as clearly shown in Figure 3. Pivotaly mounted on a bolt 15 extending through the portions 13 and 14 is a conductor holding arm 16 which extends outwardly over the insulator groove 4a and holds the conductor wire 10 in the groove. The arm 16 is normally forced downwardly by an expansion spring 17 interposed between the arm and an extension arm carried by the rectangular portion 12.

It will be noted that the spring actuated arm 16 extends outwardly beyond the outer side of the insulator 4 where it can be easily gripped for placing the conductor wire in position or removing the same therefrom.

The invention having been set forth what is claimed as new and useful is:

1. The combination with a spool type insulator, a support for said insulator, said support having right angularly disposed flanges, of means for attaching said insulator to said support in face engagement with one flange thereof, said means comprising a shaft extending through the insulator and through an aperture in said one flange of the support, said shaft terminating at one end in a hooked member hooked over the outer edge of the other flange of the support, a headed member carried by the other end of the shaft and an expansion spring interposed between the headed member and the insulator and forcing the insulator into engagement with the flange of the support and maintaining the hooked end of the shaft in engagement with the outer edge of the flange over which it is hooked.

2. A device as set forth in claim 1 wherein the shaft extends through a vertically elongated aperture in the flange of the support.

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