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H. O. ROCKWELL.  
INSULATOR SUPPORT.  
FILED JULY 23, 1921.

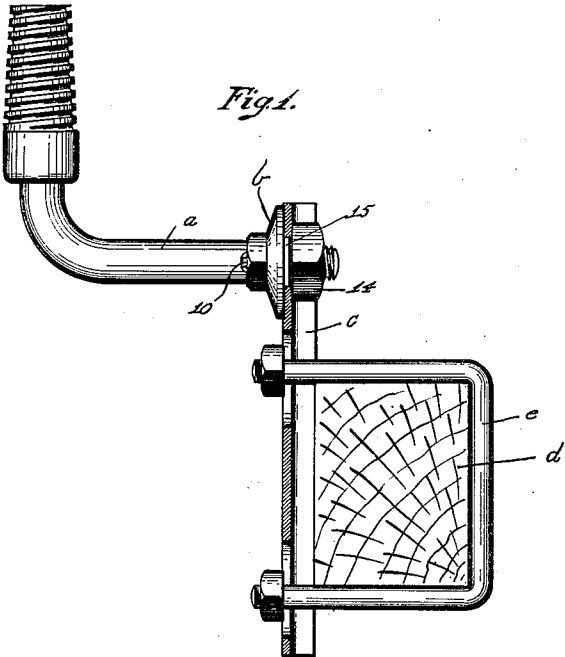


*Fig. 2.*

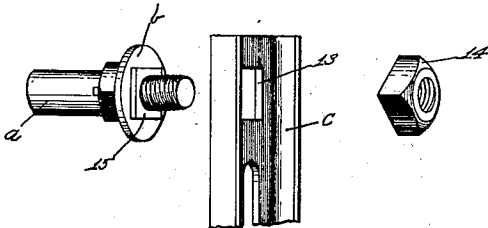
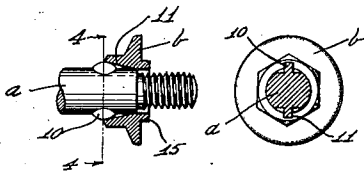


*Fig. 3.*

*Fig. 4.*



By

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## UNITED STATES PATENT OFFICE.

HERBERT O. ROCKWELL, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE BRADY ELECTRIC & MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

## INSULATOR SUPPORT.

Application filed July 23, 1921. Serial No. 486,946.

*To all whom it may concern:*

Be it known that I, HERBERT O. ROCKWELL, a citizen of the United States, and resident of New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in an Insulator Support, of which the following is a specification.

The object of the present invention is to provide a device of the character described having various features of novelty and advantage. More particularly, the invention has as its aim to provide simple and economic means for fastening a washer, collar or the like on a cylindrical member and for securing the cylindrical member to a support of any suitable kind.

In the accompanying drawings, I have shown the features of the invention applied to a bracket or arm adapted to support an insulator for electric wires, but it is to be understood that the present disclosure is by way of illustration only and is not to be taken as restrictive of my invention, for the invention has a more general application and is susceptible of various modifications and changes.

Fig. 1 is a view partly in section illustrating the present invention incorporated in an arrangement for supporting an insulator.

Fig. 2 is a detailed view, in perspective, showing certain parts in disassembled relation and with which parts the present invention is more particularly concerned.

Fig. 3 is a view showing the manner in which the collar is secured to the cylindrical member or rod.

Fig. 4 is a view taken on line 4—4 of Fig. 3.

Referring to the drawing, *a* is a cylindrical metal rod; *b*, a collar or washer thereon, and *c*, a support to which the rod *a* is secured. In Fig. 1, the member *a* is illustrated as being in the form of a bracket adapted to receive an insulator for carrying an electric cable or wire, and the support *c* is in the form of a plate secured to a cross arm *d* by means of a strap *e*, but this showing is by way of illustration only and forms no particular part of the present invention.

In accordance with the present invention,

the metal rod *a* is provided with one or more fins 10, preferably swaged up by 55 pinching the metal of the rod between a pair of dies. The collar *b* has a bore receiving the rod *a* and this bore is provided with longitudinally extending notches or grooves 11 spaced apart correspondingly to 60 the fins to receive the same. The bottom of each of these grooves is inclined outwardly towards the end of the collar, as most clearly shown in Fig. 3. The collar is forced onto the fins under such pressure that, due to 65 the wedge like action of the bottoms of the grooves, the collar is held against longitudinal movement on the rod *a*.

The rod *a* is secured in an opening 13 in the support *c* by means of a nut 14 70 threaded on the end of the rod. It will be seen that the support *c* is clamped between the opposed faces of the collar *b* and the nut 14. The collar *b* has a non-circular (in the present case, a square) boss or projection 15 positioned in the opening 13 which 75 is of like configuration so that the rod is prevented from rotating within the support *c*.

It will be seen from the foregoing description that the present invention provides very simple and effective means for securing a collar or the like against rotary and longitudinal movement on a cylindrical member and for fastening that member 85 against movement in a suitable support.

I claim as my invention:—

1. In a device of the character described, a support having a non-circular opening, a cylindrical rod, a pair of members fixed 90 to said rod and between which said support is secured, one of said members having a boss corresponding in shape to and fitting within said opening.

2. In a device of the character described, 95 a support having a polygonal opening, a cylindrical rod extending through said opening and provided with a swaged up fin, a collar having a bore provided with a notch, the bottom of which is inclined and 100 in engagement with said fin, a boss on said collar corresponding in shape and size to and fitting within said opening in said support, and a nut threaded on said rod and against said support.

HERBERT O. ROCKWELL.