S. M. SPENCER.

CROSS ARM BRACKET FOR TELEGRAPH POLES.

APPLICATION FILED JUNE 17, 1916.

1,251,703. Patented Jan. 1, 1918.

Fig. 1.

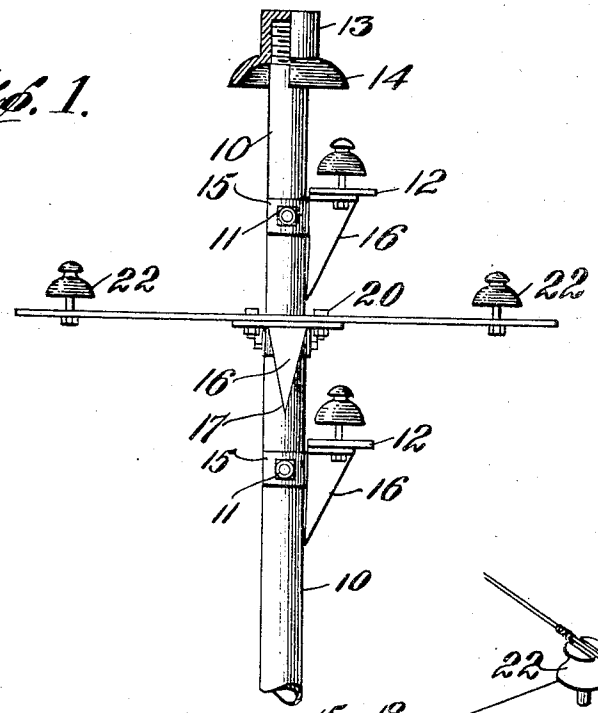


Fig. 2.

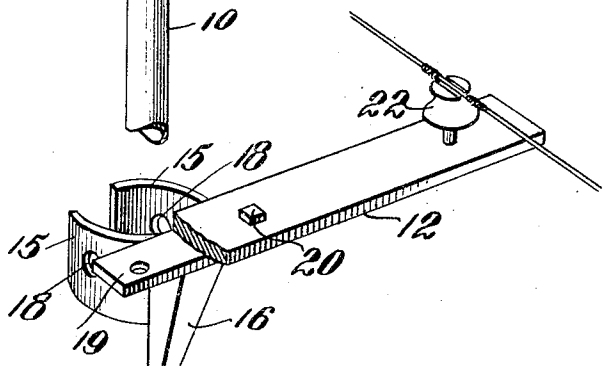
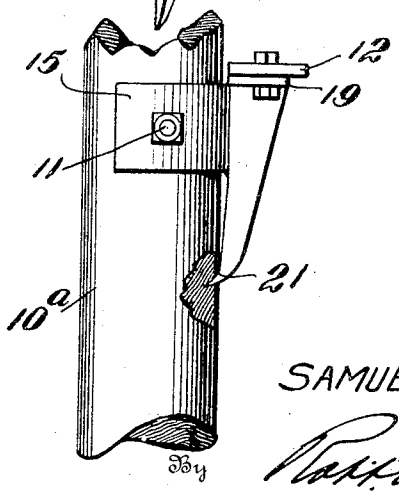


Fig. 3.



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CROSS-ARM BRACKET FOR TELEGRAPH-POLES.

1,251,703. Specification of Letters Patent. Patented Jan. 1, 1918.

Application filed June 17, 1916. Serial No. 104,281.

To all whom it may concern:

Be it known that I, SAMUEL M. SPENCER, a citizen of the United States of America, residing at Eutaw, in the county of Greene and State of Alabama, have invented certain new and useful Improvements in Cross-Arm Brackets for Telegraph-Poles, of which the following is a specification.

My invention relates to supports for telephone and telegraph wires and cables and has for its object more particularly to improve and perfect the means for attaching insulator supporting cross arms to the post.

My present invention embraces part of the subject matter of an application filed by me on the 27th day of November, 1915, Serial No. 63,866.

One object of my present invention is to provide a novel type of bracket which will afford a very firm and substantial support for a cross arm, the bracket being provided with a ledge to receive the cross arm and having an underhanging post engaging shank which, in connection with side wings at its top that partly embrace and are bolted to the post, serve to form a very rigid and effective support.

A further object, as applied to wooden posts, is to adapt the underhanging shank to embed itself in the wooden post so as to share with the wing engaging bolt the strain of supporting the weight on the cross arm.

My invention further comprises the novel features of construction and arrangements of parts, which in their preferred embodiment only are illustrated in the accompanying drawings, wherein:—

Figure 1 illustrates a metal post equipped with my improved brackets which are shown in side and end elevations.

Fig. 2 is a perspective view of a bracket detached with the cross arm partly broken away.

Fig. 3 is a detail view in side elevation of the bracket as designed for use on wooden posts.

Similar reference numerals refer to similar parts throughout the drawings.

As illustrated in Fig. 1, I have shown a metallic post section 10 formed of galvanized piping or metal which will not rust and which will be provided at suitable intervals with holes drilled therethrough to receive the bolts 11 by means of which the brackets that support the cross arms 12 are attached to this top member. A cap 13 is screwed over the top end of the member 9 and is provided with a flaring base flange 14.

The brackets for supporting the cross arms are provided with side arms or wings 15 connected to a heavy wedge shaped body member 16 which tapers downwardly forming a shank having a sharp point 17 disposed substantially below the base of the wings 15 and adapted to bear against the post 10. Each of the wings is provided with a bolt hole 18 for the reception of the bolts 11 which pass diametrically through the post 10 and securely tie the bracket wings to the post. The top of the wedge portion 16 forms a horizontal ledge upon which the cross arm 12 rests, the ledge having substantially the width of the cross arm and having at each end laterally extending horizontal flanges 19 which are perforated to receive bolts 20 by means of which the cross arm is bolted down on the supporting bracket.

As illustrated in Fig. 1 the top member may have the brackets disposed to support the cross arms in positions at right angles to each other, but it is my purpose and intention to support all of the cross arms upon the post 10.

It is preferable that the wings 15 should be struck on a curve having a shorter radius than that of the post 10 so that when the bolt 11 is drawn tight, the arms are drawn in to make a more rigid clamping engagement with the post. The shank is so designed that it will bear against the post 10 when the weight comes on the cross arm.

When the bracket is applied to wooden posts 10^a the pointed end of its shank is bent inwardly at 21 so that as the weight comes on it and it tends to swing about the bolt 11, the point 21 of the shank will bite into the wooden post and will take a substantial part of the load from the bolt 11 and arms 15.

The cross arms 12 are shown of metal but may be of wood or any suitable construction and are intended to be provided with any well known type of insulator 21.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a supporting bracket for the cross arm for telegraph poles, a vertically disposed wedgelike body and curved arms attached to the body and forming a cuff to substantially embrace the post, means to attach said arms to the post, the top of said

wedge being laterally extended to form a bracket support for a cross arm, and means to fasten a cross arm on top of said wedge-like body.

2. In combination, a post, a cross arm supporting bracket comprising a body portion, wedge shaped in side elevation, terminating at its upper end in a flat horizontal ledge having end perforated flanges forming extensions of the ledge, integral thin clamp wings perforated and adapted to embrace the post, and fastening means to attach said wings to the post, the bottom of said wedge member terminating in an inturned point adapted to engage and be forced into the post a substantial distance below the point of connection therewith of said fastening wings, substantially as described.

In testimony whereof I affix my signature.

SAMUEL M. SPENCER.

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