

No. 876,160.

PATENTED JAN. 7, 1908.

W. D. FARIS.
CLAMP.

APPLICATION FILED NOV. 20, 1907.

Fig 1.

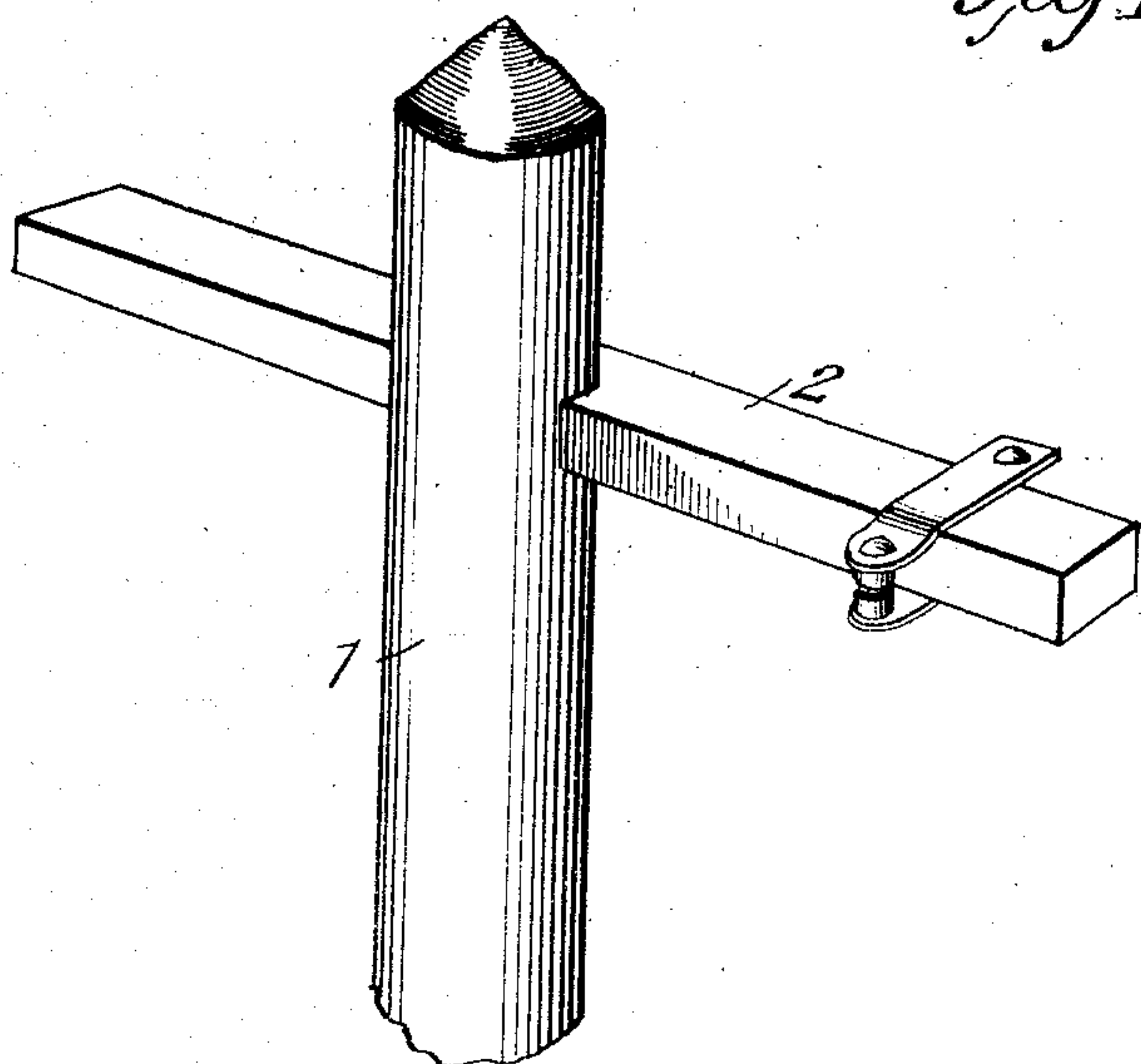


Fig 2.

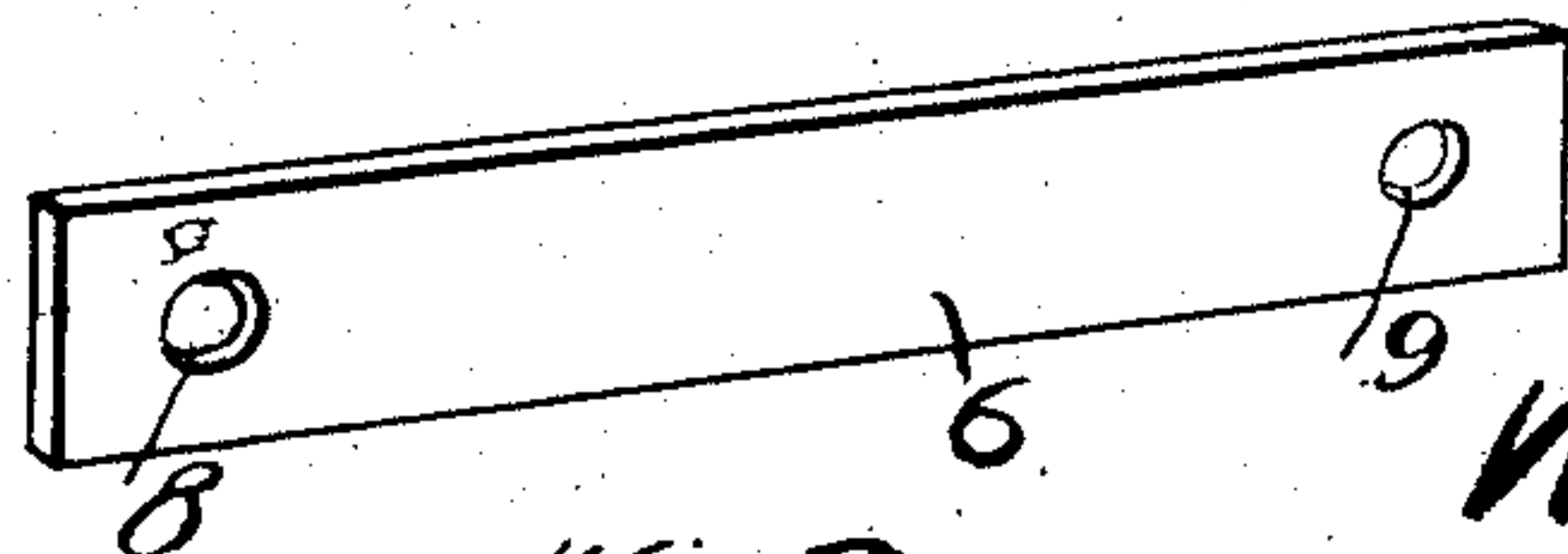
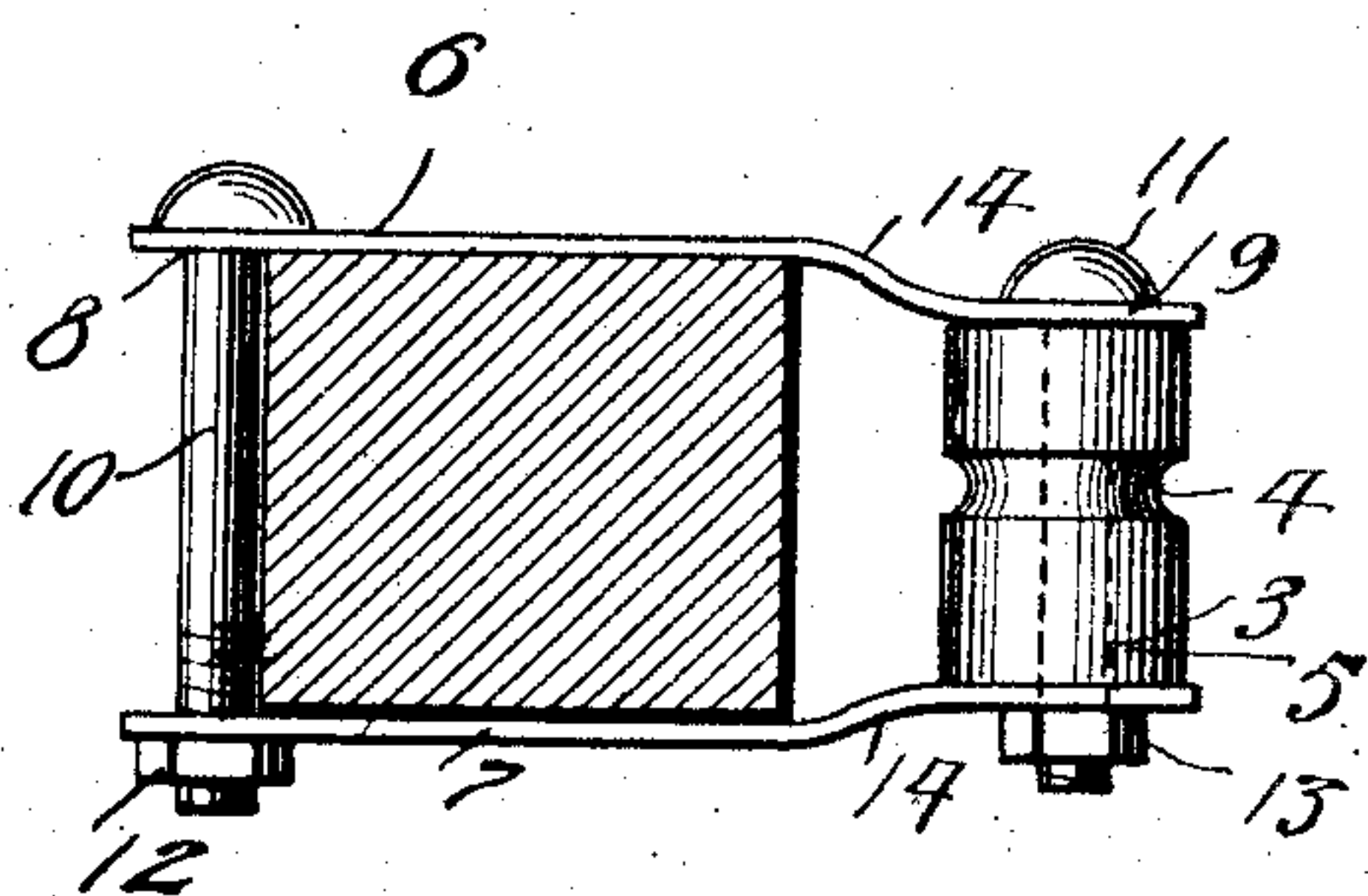


Fig 3.

Witnesses

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CLAMP.

No. 876,160.

Specification of Letters Patent.

Patented Jan. 7, 1908.

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To all whom it may concern:

Be it known that I, WINN D. FARIS, a citizen of the United States, residing at Medicine Lodge, in the county of Barber and State of Kansas, have invented new and useful Improvements in Clamps, of which the following is a specification.

This invention relates to an improved clamp for insulators for electric wires, and has for its object to produce an extremely simple device of this character, constructed of few parts so arranged as to be readily applied or detached from the cross arm of a telegraph or telephone pole, and which may be attached to the cross arm without the necessity of boring holes within the arm thereby weakening and causing the arm to rot in a comparatively short time.

To these ends the invention resides in the novel construction of elements and their arrangements in operative combination as will hereinafter be fully described and claimed.

In the drawing,—Figure 1 is a perspective view of my invention applied to the cross arm of a pole, and Fig. 2 is a side elevation of my improvement, showing the same upon the cross arm of the pole. Fig. 3 is a perspective view of one of the straps removed.

In the drawing the numeral 1 designates an ordinary telegraph or telephone pole provided with the customary cross arm 2. The invention is primarily intended for connecting the ends of electric wires where the line stops and comprises an insulator 3 of glass, porcelain or other suitable material, preferably cylindrical in form and having a depression 4 around its face and being provided with the central opening 5, as shown by the dotted lines in Fig. 2 of the drawing. A pair of arms or straps 6 and 7 constructed preferably of a resilient metal and having perforations or openings 8 and 9, preferably located upon their faces near their ends, are adapted for the reception of the bolts 10 and 11.

It will, be noted, by reference to the drawing that the insulator 3 is of a smaller diameter than the faces of the cross arm 2, and in

applying my invention the straps 6 and 7 are first placed upon the upper and under faces of the cross arm 2, the bolt 10 is then inserted through the openings 8 in the straps 6 and 7, and a retaining nut 12 screwed upon the threads of the bolt 10 to cause the straps 6 and 7 to securely engage the upper and lower faces of the cross arm. The insulator 4 is then inserted between the straps 6 and 7 and the bolt 11 passed through the openings 9 of the arms and the central channel 5 of the insulator and the parts rigidly secured together by a nut or retaining element 13 engaging upon the threads of the bolt 11. By this operation it will be noted that the straps 6 and 7 are caused to tightly grip the upper and lower faces of the cross arm and to be inclined as at 14 to reach the plane of their engagement upon the faces of the insulator 3.

From the construction just described it will be noted that I have provided an extremely simple and effective means for securing and retaining an insulator upon the cross arm of a pole, it will also be noted that no screws or bolts are inserted within the cross arm in the application of my invention thereon. It will be further noted that should the insulator 3 be broken from any cause the electric wire will be still retained in position by the bolt 11.

While I have described the preferred embodiment of my invention minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of my invention.

Having thus fully described the invention, what is claimed as new is:—

1. The combination with a cross arm, of an insulating knob having a central opening and being of lesser diameter than the cross arm, and a pair of metal straps having openings, a bolt engaging the openings of the strap at one face of the cross arm, and a bolt engaging the openings in the strap and the opening in the knob at a point adjacent the opposite face of the cross arm.

2. In combination with a cross arm, a pair of resilient metal straps having open-

ings, an insulator knob having a semi-circular depression around its face and a central opening, and being of a lesser diameter than the cross arm, a bolt adapted to engage the
5 openings in the straps at one face of the cross arm, and a bolt adapted to engage the opposite openings in the straps and the central opening in the knob and to clamp the knob

between the straps at a point adjacent the opposite face of the arm.

In testimony whereof I affix my signature
10 in presence of two witnesses.

WINN D. FARIS.

Witnesses:

H. H. CASE,

W. P. KNIGHT.