Dec. 23, 1924. 1,520,218

T. H. BARNARD

INSULATOR BRACKET

Filed Aug. 3, 1922

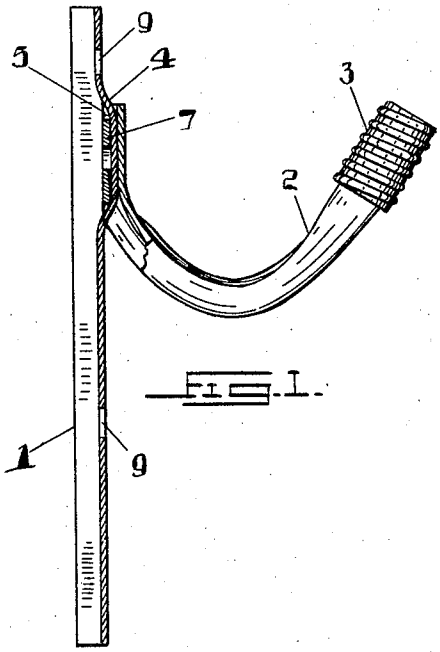


FIG. 1.

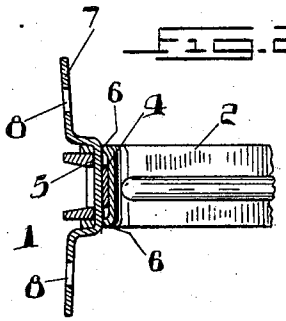


FIG. 2.

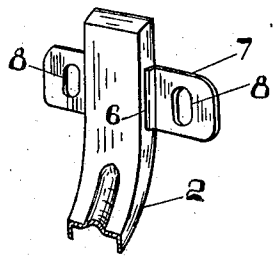


FIG. 4.

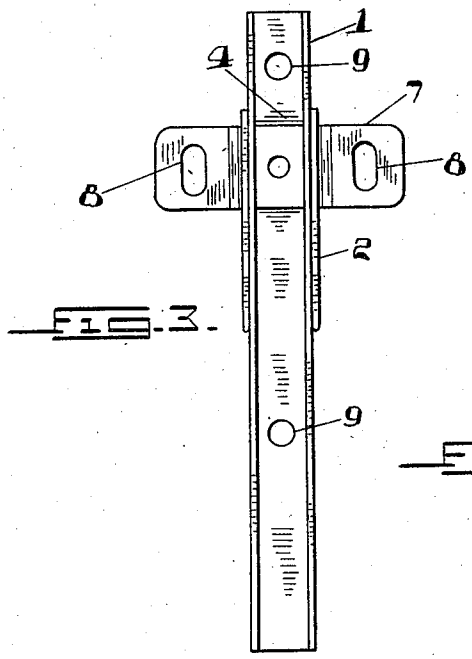


FIG. 3.

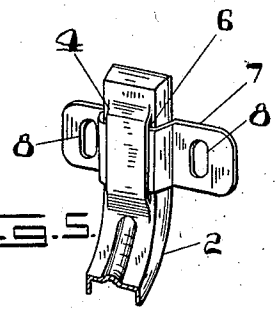


FIG. 5.

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UNITED STATES PATENT OFFICE.

THOMAS H. BARNARD, OF TORONTO, ONTARIO, CANADA.

INSULATOR BRACKET.

Application filed August 3, 1922. Serial No. 579,477.

To all whom it may concern:

Be it known that I, THOMAS H. BARNARD, of the city of Toronto, in the county of York, Province of Ontario, Canada, a subject of the King of Great Britain, have invented certain new and useful Improvements in Insulator Brackets, of which the following is a specification.

This invention relates to brackets used for supporting insulators for electric wires on poles and buildings. These brackets comprise mainly a back strip and an insulator supporting unit. In some cases the back strip itself is secured to the wall or building while in other cases special straps are employed. In all prior construction, however, the various parts of the bracket are secured together by means of rivets or bolts.

I aim, however, to devise a bracket of simple and strong construction in which the use of rivets or bolts for securing the parts of the bracket together is entirely avoided and in which once the parts are put together there is no danger of the parts becoming accidentally disconnected, and which construction may be entirely formed by stamping.

I attain my object by means of the constructions hereinafter described and illustrated in the accompanying drawings in which—

Fig. 1 is a side elevation, partly in section, of my improved bracket;

Fig. 2 a cross section through the same;

Fig. 3 a rear view of the bracket;

Fig. 4 a perspective view, partly broken away, of a simple form of bracket; and

Fig. 5 a similar view to Fig. 4 showing a modification of the construction shown therein.

In the drawings like numerals of reference indicate corresponding parts in the different figures.

1 is the back strip or base of the bracket, which is preferably formed of channel section, and 2 the insulator supporting arm, which also is preferably stamped up to channel form and provided at its outer end with the threaded portion 3 on which the insulator is screwed.

The sides of the arm 2 will be so spaced apart that the back strip 1 may be received between them.

The arm is secured to the back strip in the manner I will now describe. A portion 4 of the bottom of the channel back strip is stamped up so that a slot 5 is formed at each side between the sides and bottom of the channel. Slots 6 are also formed in each side of the arm 2. These slots 6 will preferably be formed while the arm 2 is in the flat form.

Through the slots 5 and 6 is passed a strap 7. This strap when being inserted will have at least one end straight. After the strap is placed in position, it is bent to the form shown in full lines in Fig. 2, with its ends in substantial alinement with the back of the strip 1, and once in this form, there is no possibility of it accidentally working out of the slots to allow the arm and back strip to separate.

The strap 7 will have holes 8 formed therein by means of which the bracket may be secured to a pole or building, or the bracket may be secured to the pole or building through holes 9 formed in the back strip.

It will be understood, of course, that the back strip may be of any length and any number of arms may be secured thereon in the manner hereinbefore described.

In some cases, as shown in Fig. 4, the back strip may be entirely dispensed with, and the strap passed through the slots 6 and subsequently bent to prevent its removal and bringing its ends into position for being secured to a pole or wall. In this figure the slots 6 are formed in the sides of the channel, while in the modification shown in Fig. 5 the slots are formed by stamping up a portion of the bottom of the channel in the manner hereinbefore described in connection with the back strip.

What I claim as my invention is:—

1. In an insulator bracket, the combination of a back strip having a portion of its bottom stamped up to form a slot at each side of the stamped up portion; an insulator supporting arm adapted to embrace said back strip and having slots therein in alinement with the first mentioned slots; and a strap passing through said slots.

2. In an insulator bracket, the combination of a back strip having a pair of slots formed therein for the transverse passage of a strap; an insulator supporting arm adapted to embrace said back strip and also having a pair of slots formed therein for the transverse passage of a strap; and a strap passing through said slots, said strap being bent at each side of the back strip to prevent its removal from the slots.

3. In an insulator bracket, the combination of a back strip having a portion of its bottom stamped up to form a slot at each side of the stamped up portion; an insulator supporting arm adapted to embrace said back strip and having slots therein in alinement with the first mentioned slots; and a strap passing through said slots, said strap being bent to prevent its removal from the slots.

4. In an insulator bracket, the combination of a back strip having a pair of slots formed therein for the transverse passage of a strap; an insulator supporting arm also having a pair of slots formed therein for the tranverse passage of a strap, one of said parts being adapted to embrace the other; and a strap passing through said slots.

5. In an insulator bracket, the combination of a back strip slotted for the transverse passage of a strap; an insulator supporting arm adapted to embrace said back strip and also having a pair of slots formed therein for the transverse passage of a strap; and a strap passing through said slots, said strap being bent backwardly at each side of the arm and then outwardly in substantial alinement with the edges of the sides of the back strip.

6. In an insulator bracket, the combination of an insulator supporting arm of channel section having a pair of slots formed therein for the transverse passage of a strap; and a strap passing through said slotted arm, said strap being bent at each side of the arm to prevent its removal.

7. In an insulator bracket, the combination of an insulator supporting arm of channel section having a pair of slots formed therein for the transverse passage of a strap; and a strap passing through said slotted arm, said strap being bent backwardly at each side of the arm and then outwardly in substantial alinement with the edges of the sides of the arm.

Signed at Toronto, Canada, this 18th day of July, 1922.

THOMAS H. BARNARD.