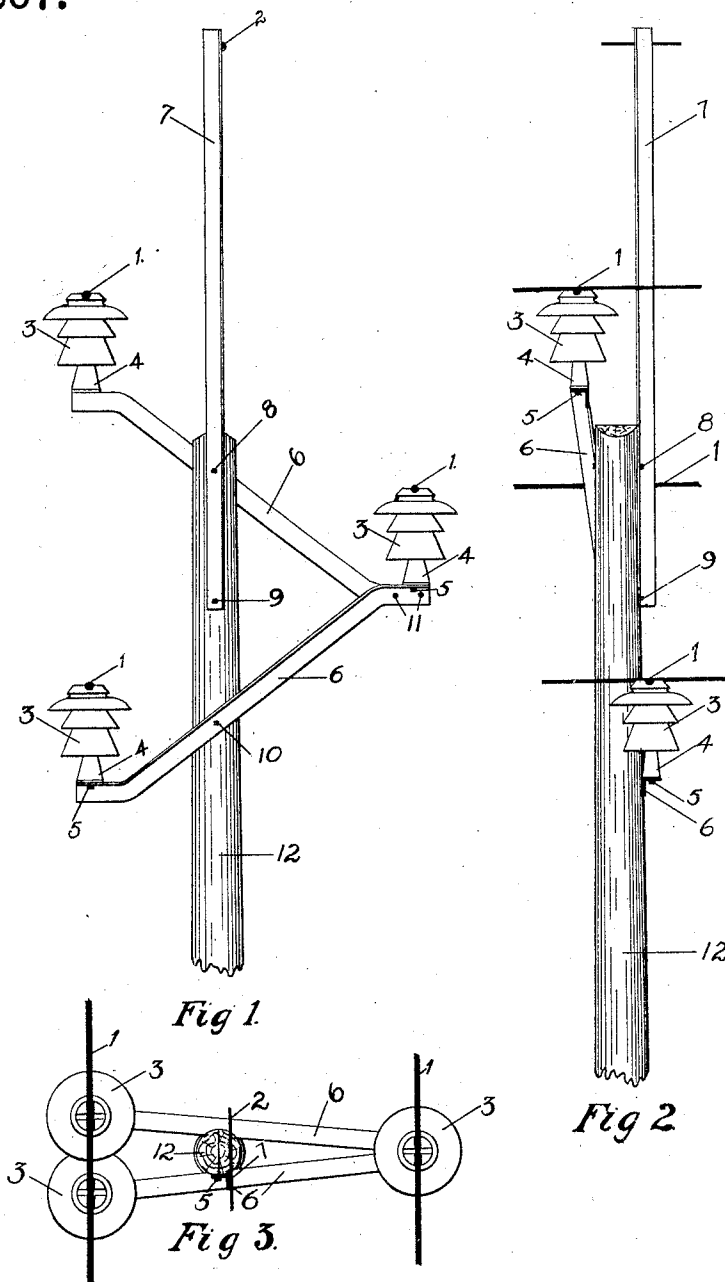


W. R. THOMPSON.
INSULATOR SUPPORT.
APPLICATION FILED MAY 10, 1910.

974,207.

Patented Nov. 1, 1910.



WITNESSES:
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INSULATOR-SUPPORT.

974,207.

Specification of Letters Patent.

Patented Nov. 1, 1910.

Application filed May 10, 1910. Serial No. 560,529.

To all whom it may concern:

Be it known that I, WARREN RAY THOMPSON, a citizen of the United States, residing at Chicago, in the county of Cook and the State of Illinois, have invented new and useful Improvements in Insulator-Supports, of which the following is a specification.

This invention relates to supports for insulators for electrical conductors, and relates particularly to supports of the type or kind commonly known as cross arms.

Stated generally, the object of the present invention is to provide an insulator support of the cross arm type, which will be simple and relatively cheap in construction, strong, rigid and durable, and which will be effective for its designed purpose.

To this end an insulator support of my invention comprises the various features and details of construction hereinafter described and claimed.

Specifically, an important object of the invention is to provide a strong, rigid and durable structure without the use of separate braces, heretofore commonly used and which represent a large item of expense.

In the accompanying drawing, in which my invention is fully illustrated—Figure 1 is a view of my improved support looking lengthwise of the conductor wires. Fig. 2 is a view thereof taken at right angles to the wires; and Fig. 3 is a top plan view thereof.

Referring now to the drawings, 1 designates electrical conductors or wires, 3 the insulators to which the wires 1 are directly connected, 6 the cross arm supports which carry the insulators 3, and 12 the pole or other support to which the cross arm supports 6 are secured. As regards their general features, all of the foregoing parts are old and well known in the art and, excepting as hereinafter particularly pointed out and described, may be of any usual or desired construction and will be readily understood by those skilled in the art from an inspection of the drawings, without a description in detail thereof.

The cross arm supports 6 consist of bars, preferably angle bars, connected to each other at one end, as by bolts or rivets 11, each of said arms 6 being adapted to be connected to the pole 12 between its ends, as by bolts or lag screws 10, the relation being

such that the ends of said arms 6 will project at opposite sides of said pole and such, also, that said arms will diverge lengthwise from their point of attachment to each other in the direction of the length of said pole or support 12, when connected thereto.

With the described construction, it is obvious that, when connected to the pole 12, said arms will brace each other and will form a stiff and rigid structure, thus obviating the necessity for separate braces, and correspondingly simplifying and cheapening the construction, all in the manner desired.

As shown, the arms 6 are connected to opposite sides of the pole 12, but my invention contemplates attaching said arms to said pole in any other desired relation.

Formed at the opposite ends of the arms 6, are seats to which the insulator pins 4 are adapted to be connected. As shown, said seats are formed by the outwardly projecting flanges of the angle bars forming the cross arm supports 6, said pins being secured thereto in any suitable manner, as by bolts or screws 5.

If desired, a ground wire 2 may be used to protect the conductors 1 from damage by lightning. Said ground wire 2 may be conveniently supported on an upward extension 7 of the pole 12, consisting, as shown, of an angle bar of desired length connected to the upper end of the pole 12, by means of bolts or lag screws 8 and 9.

I claim:—

1. An insulator support comprising bars connected to each other at one end, said bars diverging from their points of attachment to each other, so that their opposite ends will be separated, and said bars being adapted to be connected between their ends to a pole or other support, substantially as described.

2. An insulator support comprising angle bars connected to each other at one end, said bars diverging from their points of attachment to each other, so that their opposite ends will be separated, and said bars being adapted to be connected between their ends to a pole or other support, substantially as described.

3. An insulator support comprising bars connected to each other at one end, said bars

diverging from their points of attachment to each other, so that their opposite ends will be separated, and said bars being adapted to be connected between their ends to opposite sides of a pole or other support, substantially as described.

In testimony whereof, I have affixed my

signature hereto, in the presence of two witnesses.

WARREN RAY THOMPSON.

Witnesses:

A. H. SAYCE,

EVERETT E. SANFORD.