

T. M. PLATT.
INSULATOR.
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1,059,629.

Patented Apr. 22, 1913.

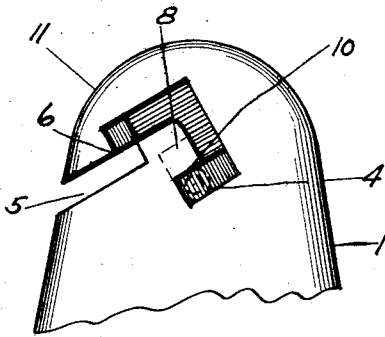


Fig. 4.

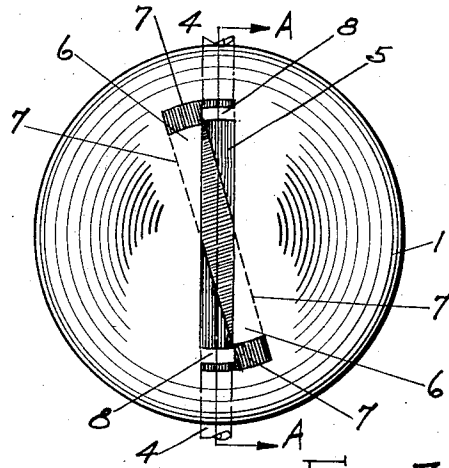


Fig. 3.

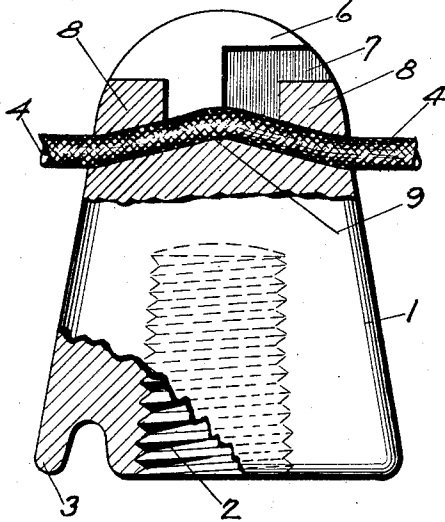


Fig. 1.

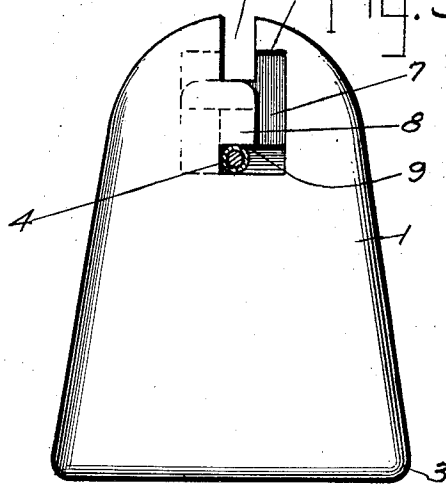


Fig. 2.

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INSULATOR.

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To all whom it may concern:

Be it known that I, THOMAS M. PLATT, a citizen of the United States, residing in the city of Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Insulators, of which the following is a specification.

My invention relates to an insulator or insulating support for electric wires, for supporting the same upon poles, buildings, or other supports, or for use within buildings, for interior or other wiring, and, in general, for supporting an electric wire in any locality.

It is the object of my invention to provide an insulator which will support an electric wire and hold and secure the same without recourse to a tie wire or similar means. To this end I provide an insulator which has a slot through which the wire may be passed, such entering slot being disposed at an angle with an intermediate slot to which the wire is passed by giving to it an angular position different than it had upon entry through the entering slot. The intermediate slot is at an angle with the entering slot and in moving the wire to register with the intermediate slot it passes under a pair of overhanging lugs or ears adjacent the entering slot. Thereafter, the conductor is passed through the intermediate slot and then again is changed in its angular position, and in so doing is passed under a second set of ears or lugs, and finally occupies a position in a third channel or slot which has a raised portion intermediate the second ears or lugs, so that in final position the wire is held beneath the second ears or lugs and is in bent form over the raised portion in the third slot.

For an illustration of some of the forms my invention may take, reference is to be had to the accompanying drawing, in which:

Figure 1 is a vertical sectional view, parts in elevation, of an insulator embodying my invention, such section being taken on the line A—A of Fig. 3. Fig. 2 is a side elevational view of the insulator shown in Figs. 1 and 3. Fig. 3 is a top plan view of the insulator shown in Figs. 1 and 2. Fig. 4 is a side elevational view of a modified form in which the entering slot is on the side of the insulator and inclined upwardly.

The insulator body 1 is of glass, porce-

lain, or other suitable insulating material.

In the case illustrated it is provided with a screw-threaded socket 2 adapted to screw on to an insulator pin or any other screw support. The body 1 may be provided with an overhanging ledge 3 to prevent moisture upon the outer surface of the body 1 coming into communication with the insulator pin or other support. In other cases the insulator body 1 may have a simple hole therethrough to receive a screw or other means for fastening it against any suitable support, for convenient use in house wiring and the like. A fragment of insulated wire is shown at 4 after it has been fully inserted and applied to the insulator. This wire 4 is first inserted through the transverse slot 5 and moved downwardly until beneath the lower edges of the overhanging ears or lugs 6, when it is rotated or moved to the angular position of the intermediate slot 7 in which case it is beneath the lugs or ears 6. It is then dropped downwardly through the intermediate slot 7 while it retains this angular position, until it passes below the lower surfaces of the second ears or lugs 8, 8, when it is turned backwardly again toward a position parallel with its entering position, in which case it is held under the second lugs or ears 8, 8. The bottom of the third or lower slot has a raised portion 9 over which the insulated wire is bent as shown in Fig. 1, and the outer portions are held snugly under the ears or lugs 8, 8. When the conductor has reached this position it is secure against sliding longitudinally through the third or lower slot due to the kink or bend therein and the action of the ears or lugs 8, 8; furthermore, it is prevented from rising up by the same ears or lugs 8, 8 and cannot assume the angular position necessary to rise up through the intermediate slot in position to again be moved in angular relation so as to come out through the entering slot.

In Fig. 4 is shown a modification in which the entering slot 5 is at the side of the body of the insulator and inclined slightly upwardly, with part 11 of body 1 forming a shed to prevent sleet and rain from getting in slots. In this case after the conductor has passed under the second ears or lugs 8, 8, it is passed around to a position beneath the side or edge 10 of such ears or lugs, so that, in this case, the conductor in its final position is still further removed from

the entry slot to a position back of or below a more remote surface of the ears or lugs 8, 8.

What I claim is:

- 5 1. An insulator having an entry slot for a conductor, a lug adjacent to said entry slot, said insulator having a second slot running beneath said lug and disposed at an angle to said entry slot, a second lug adjacent to said second slot, said insulator
10 having a third slot running beneath said second lug and disposed in substantial alinement with said first slot, said slots all communicating with each other, whereby a
15 conductor may be passed through said first and second slots in succession to said third slot and when in said third slot extends in the same direction as when entering said first slot.
- 20 2. An insulator having an entry slot for a conductor, a lug adjacent to said entry slot, said insulator having a second slot

running beneath said lug and disposed at an angle to said entry slot, a second lug adjacent to said second slot, said insulator having a third slot running beneath said second
25 lug and disposed in substantial alinement with said first slot, said slots all communicating with each other, whereby a conductor may be passed through said first and second
30 slots in succession to said third slot and when in said third slot extends in the same direction as when entering said first slot, and said first and second lugs projecting toward
35 each other across said second and third slots respectively.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

THOMAS M. PLATT.

Witnesses:

ANNA E. STEINBOCK,
ELEANOR T. McCALL.

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