No. 872,216. PATENTED NOV. 26, 1907.

H. D. BODLEY.

INSULATOR.

APPLICATION FILED FEB. 27, 1907.

Fig. 1.

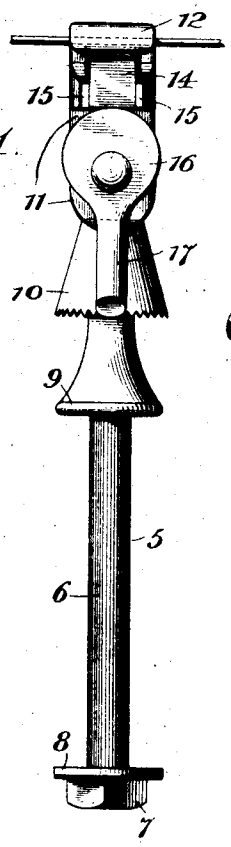


Fig. 2.

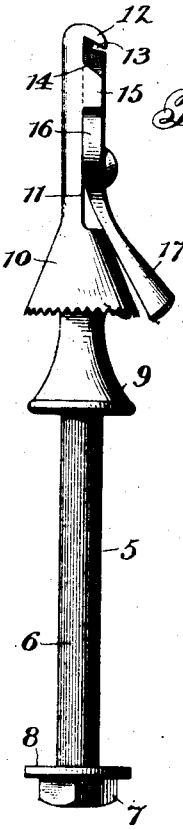


Fig. 3.

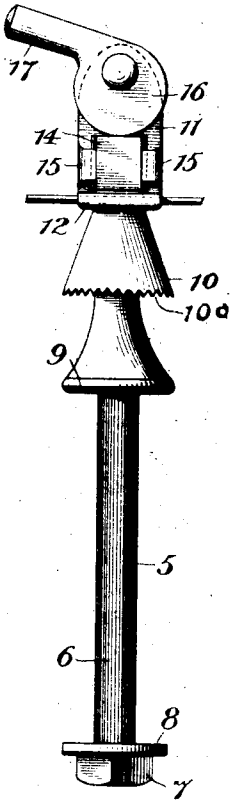
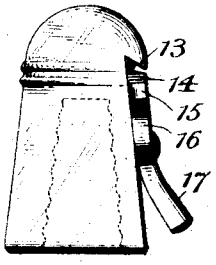


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

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INSULATOR.

No. 872,216. Specification of Letters Patent. Patented Nov. 26, 1907.

Application filed February 27, 1907. Serial No. 359,650.

To all whom it may concern:

Be it known that I, HOMER D. BODLEY, a citizen of the United States, residing at Stanley, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Insulators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention provides an insulator which is arranged to securely hold a running wire without the use of a tie-wire or without twisting the running wire, the parts being so formed and associated that, while the wire is firmly held without liability of becoming released unintentionally, it may be easily attached and detached when desired.

When read in connection with the particular description hereinafter, the details of construction and arrangement of parts contemplated by this invention will be apparent from the accompanying drawings, forming part hereof, wherein embodiments of my invention are shown, for purposes of illustration.

Like reference-characters refer to corresponding parts in the several views of the drawings, of which—

Figure 1 is a front view of one adaptation of my invention; Fig. 2 is a side view thereof; and Figs. 3 and 4 are views of other adaptations.

For attaching the insulator to a cross-tree or other support, a bolt portion or shank 5, covered with insulating material 6, is provided, and on the screw-threaded end of the shank is a nut 7 which coöperates with a washer 8 and an insulated shoulder 9 to clamp the shank in place. Above shoulder 9 is a "petticoat" or "skirt" portion or protector 10 to break or prevent a water connection between the running wire and the cross-tree, this protector being flared outwardly from the shoulder and having its lower edge formed with serrations 10^a to facilitate drip therefrom.

The upper end of the shank terminates in a flattened portion or surface 11, whereon is a transverse projection or shoulder 12, forming a wedge-shaped recess or groove 13 to receive the wire to be held. To clamp the wire into the groove a slide 14 is positioned adjacent to said groove, held on the flattened portion by lugs 15, and arranged to move laterally into and out of the groove. For the purpose of moving, clamping, and holding the slide against a wire in the groove, and thereby securing the wire to the insulator, a cam 16, having an arm 17, is pivoted on the flattened portion and has operative engagement with the slide. It will be seen that the arm constitutes a weight which maintains the cam normally in such position that the wire will be clamped by the slide into the groove.

Fig. 4 shows an adaptation of my invention to a socketed insulator, the bolt portion or shank being dispensed with, but the flattened surface or portion being provided for accommodation of the clamp and the associated parts.

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

1. An insulator having thereon a groove arranged to receive a wire, a slide adjacent to said groove and movable against a wire therein, and a pivoted member coöperable to clamp said slide against the wire.

2. An insulator having thereon a groove arranged to receive a wire, a slide adjacent to said groove and movable against a wire therein, and a pivoted member coöperable to clamp said slide against the wire and weighted to normally hold the slide in clamped position.

3. An insulator having a flattened surface, a shoulder projecting from said surface and forming a groove arranged to receive a wire, a slide adjacent to said groove and movable against a wire therein, and a pivoted member coöperable to clamp said slide against the wire.

4. An insulator having thereon a groove arranged to receive a wire, a slide adjacent to said groove and movable against a wire therein, and a cam coöperable to clamp said slide against the wire.

5. The combination with an insulator comprising means for attachment with a supporting member and means for holding a wire, of a flaring portion positioned between

the supporting-attaching means and the wire-holding means whereby the one is insulated from the other.

6. An insulator having a shoulder projecting therefrom and forming a groove arranged to receive a wire, lugs on said insulator, a slide held by said lugs adjacent to said groove and movable against a wire therein, and a pivoted member coöperable with said slide to clamp the slide against the wire.

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

HOMER D. BODLEY.

Witnesses:
J. P. WILLIAMS,
C. C. BURROUGHS.