R. W. SCHULZ.

ADJUSTABLE SUPPORT FOR INSULATORS.

APPLICATION FILED AUG. 24, 1914.

1,204,196. Patented Nov. 7, 1916.

Fig. 5.

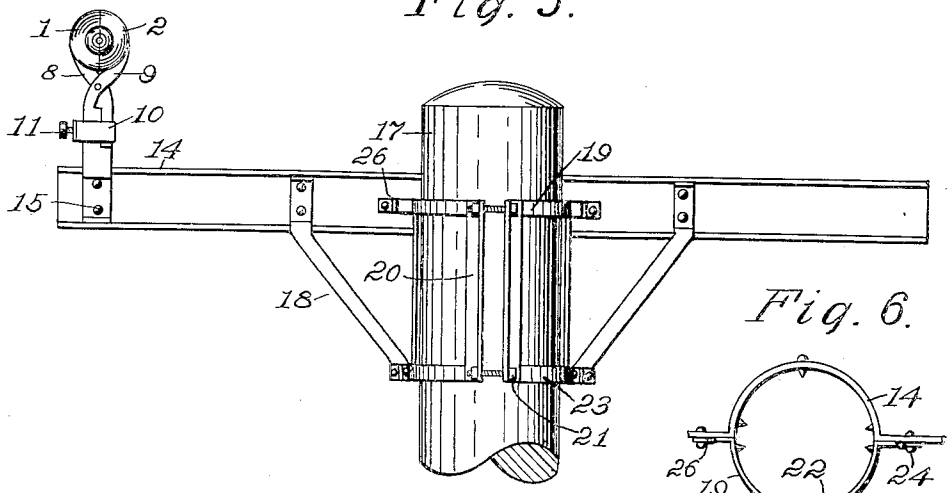


Fig. 6.

Fig. 2.

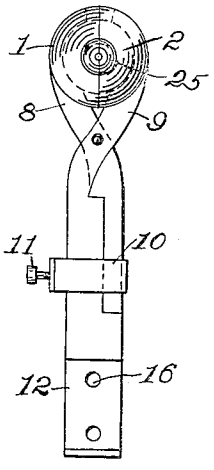


Fig. 1.

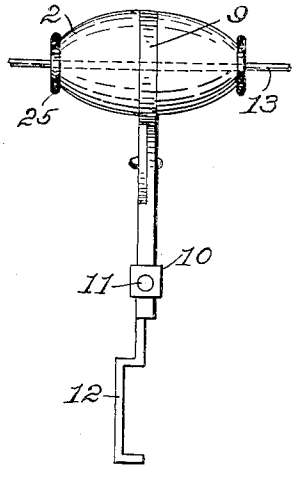
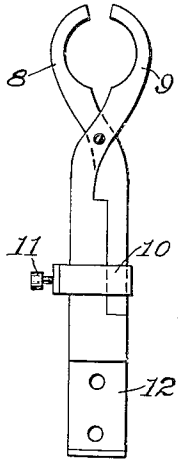


Fig. 3.



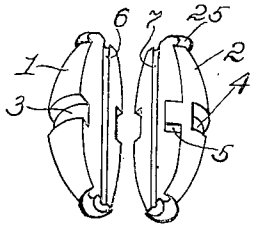


Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

RUDOLPH W. SCHULZ, OF WATERLOO, IOWA.

ADJUSTABLE SUPPORT FOR INSULATORS.

1,204,196. Specification of Letters Patent. Patented Nov. 7, 1916.

Application filed August 24, 1914. Serial No. 858,210.

To all whom it may concern:

Be it known that I, RUDOLPH W. SCHULZ, a citizen of the United States of America and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Adjustable Supports for Insulators, of which the following is a specification.

My invention relates to improvements in adjustable supports for insulators, and the object of my improvement is to furnish such an insulator formed of separable parts for detachably holding the conductor, and having easily operable clamping supports adapted to detachably hold the insulator in position, with improved detachable means for bracketing said device on a fixed support. This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of my improved insulating-means and its detachable clamping means. Fig. 2 is a front elevation of the device shown in said Fig. 1. Fig 3 is a front elevation of said clamping means, showing the insulating bodies removed therefrom. Fig. 4 is a perspective view of the halves of said insulating body as detached from said clamping means and slightly separated from each other. Fig. 5 is a front elevation on a reduced scale of said insulating-means, the clamping means therefor, and the detachable bracket support therefor as mounted upon a fixed post or pillar. Fig. 6 is an upper plan view of the detachable clamping members on said bracketed support.

Similar numerals of reference denote corresponding parts throughout the several views.

My improved insulating-means comprises halves 1—2 which, when placed in registration, form an ellipsoid, slightly truncated at its opposite ends of its longer diameter. The flat registering surfaces of these halves have like registering longitudinal grooves 6 and 7, respectively, which, when the halves are placed in registration, form a single central longitudinal orifice adapted to detachably receive the wire conductor 13. Said halves 1—2 have thereabout the exterior grooves 3 and 4, respectively, in line with each other, but the groove 4 in part 2 is interrupted at its upper end while a projection 5 extends from the flat face of said part fittingly into the adjacent end of the groove 3 of the part 1 to lock said parts together when assembled and prevent relative longitudinal movement.

Numerals 8 and 9 denote clamping jaws hinged or pivoted together medially and having like inwardly curved ends adapted to fit into the grooves 3 and 4 of said parts 1 and 2 on opposite sides thereof to hold them together detachably. The lower ends of said clamping bodies on the opposite sides of their pivotal connection are both straight so as to lie in registration with each other when brought into contact. One of these lower parts, numbered 12, is extended down below the other, widened and offset to fit into the concavity of a channel-bar 14, the latter bracketed on a pillar 17 by detachable securing means to be hereinafter described. The end member 12 has bolt holes, and bolts 15 are inserted therein and in registering holes in the bracket 14 to secure said parts together. The numeral 10 denotes a hollow rectangular clamp seated about said part 12 and the other registering part referred to, having overlapped orificed ends through which a set screw 11 works against the part 12 to detachably secure said parts together.

The bracket 14 is bent to partially encompass the pillar 17. The numerals 19 and 23 denote vertically spaced pairs of ring parts connected together by means of spacing bars 20 which are in the form of angle-irons riveted thereon with spaced parallel outwardly extending flanges connected together adjustably by means of bolts 21. The other ends of the ring part 19 are bent outwardly and hinged to the adjacent flat parts of the bracket 14 at 26 and 24. The lowermost ring 23 is located below the level of the bracket 14 and is supported and similarly hinged at the sides by means of fixed hangers 18 depending from the bracket 14. Small pointed studs 22 are fixed on the inner surfaces of the rings 19 and 23 so as to be forced into the pillar 17 when the rings are tightened thereabout by means of the bolt 21, in order to hold said bracket firmly on the pillar.

The parts 1 and 2 are formed of any suitable insulating material, such as porcelain, and when the set screw 11 is loosened the clamp 10 may be slipped upwardly enough to permit the clamp members 8 and 9 to be spread apart so that the insulating halves 1 and 2 may be separated for the purpose of

introducing or moving the wire conductor 13 from their central orifice. The operation of either seating or removing the conductor is therefore rendered easy. The ellipsoidal form of the insulator facilitates drainage of moisture from its surfaces. The bracket-securing means shown facilitates placing or removal of the same upon the pillar adjustably, and is so braced and fastened to the pillar as to be perfectly secure thereon. The insulator parts 2 have integral annular flanges 25 at their ends which are useful in deflecting moisture to keep it away from the conductor 13.

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

A device of the character described, comprising a support, a cross-bar, downwardly-inclined brackets on said cross-bar, a split-ring mounted on the lower ends of said brackets and adapted to encircle said support, ring-parts mounted on said cross-bar above said split-ring and adapted to embrace the support thereabove, rigid connections between the ring-part ends on each side and the split-ring ends on the same sides, and means for adjustably securing said rigid connections together to clamp the split-ring and ring-parts adjustably upon said support.

Signed at Waterloo, Iowa, this 6th day of Aug. 1914.

RUDOLPH W. SCHULZ.

Witnesses:
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