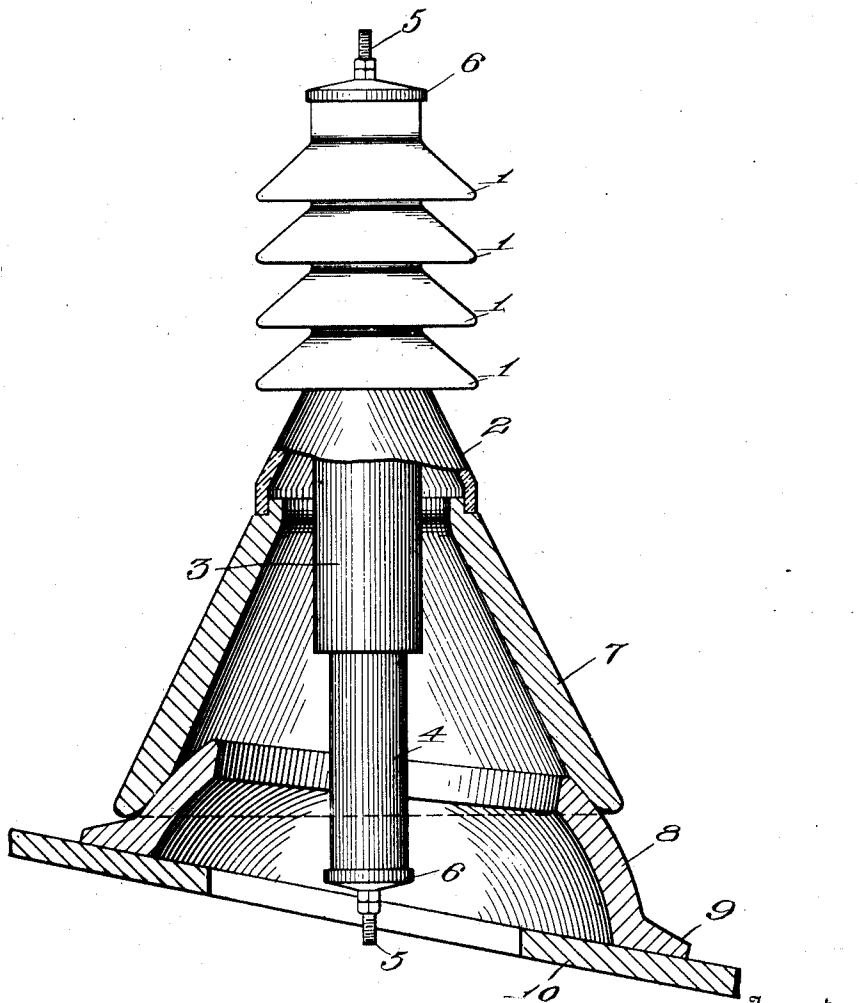


W. T. GODDARD.
INSULATOR BASE.
APPLICATION FILED SEPT. 9, 1910.

979,840.

Patented Dec. 27, 1910.



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UNITED STATES PATENT OFFICE.

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INSULATOR-BASE.

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To all whom it may concern:

Be it known that I, WALTER T. GODDARD, of Victor, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Insulator-Bases; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My invention relates to insulators and particularly to that class which are employed upon the roofs of buildings or other suitable supports for carrying heavy high tension line wires and has for its object to provide a device that will support the insulator in proper position whether or not the roof or other support is inclined from the horizontal, all as will be hereinafter described and the novel features pointed out in the claims.

The drawing represents a view of an insulator resting upon a roof or inclined surface, parts of the same being shown in vertical section.

A represents an insulator particularly adapted for carrying heavy line wires carrying high tension currents and the form shown is preferably made up of a plurality of petticoated sections 1 preferably of glazed porcelain secured to or upon porcelain tubes 3 and 4 and held together to form a solid structure by a tie rod 5 and cap or end plates 6, or otherwise.

2 indicates the lowermost annular porcelain section tapering toward the top and connected by the means shown, or otherwise, to the sections 1. The lower depending flange of the section 2 is fitted over the upper end of a hollow tapering or conical base section 7 preferably constructed of some cheap material not a conductor such as reinforced concrete and considerably larger at the lower than at the upper end to which the porcelain section 2 is fitted.

The inside of the lower edge of the base section 7 is hollowed out or curved to fit over and rest upon the partly spherical or correspondently curved or rounded outer surface of the hollow base ring or section 8 provided with the annular flange 9 at the bottom adapted to rest upon and to be secured to the roof or other support indicated by 10. As this base section or ring 8 is particularly

adapted for use upon roofs having varying degrees of inclination to form a water shed, the upper edge of the partly spherical flange thereon is inclined at a slight angle to the plane of the lower side so that even when the base section 7 is inclined at as great an angle as is shown the central portion 4 of the insulator will be at a considerable distance from the upper edge of the base and thus prevent sparking to the latter by reason of any leakage. The partly spherical flange is however of sufficient height on all sides to permit use upon a level roof while the insulator proper is maintained in vertical position so that the petticoats thereof will properly shed water and perform their functions and the range of the relative adjustments of the parts is only limited by the height of the partly spherical portion above the flange 9. If desired, the sections 7 and 8 could be fastened together in any suitable manner after adjustment but I find in practice that this is not necessary as the weight of the parts is sufficient to maintain them in proper position.

In setting the insulators it is only necessary to secure the base section 8 upon the roof or other support in proper position and then set the section 7 carrying the insulator pillar upon it, adjusting the latter until it extends vertically. It is immaterial so far as my invention is concerned whether or not the current passes down through the column and through the central tie rod 5 or the line wires are merely attached to the upper porcelain end section.

The cooperating surfaces of the two base sections form in effect a ball and socket connection which permits this universal adjustment enabling the petticoated insulators to maintain their vertical position and shed rain properly whatever may be the angle of the surface of the roof or other support.

I claim as my invention.

1. An insulator support or base embodying two sections connected by a ball and socket joint for universal relative adjustment.

2. An insulator support or base embodying a lower section having a rounded upper portion and an upper section fitting over the latter and adjustable thereon.

3. In an insulator, the combination of a lower base section having an upwardly extending annular flange and rounded or

partly spherical on its exterior surface and an upper base section having its lower interior edge curved to correspond with the exterior surface of the lower section and
5 universally adjustable thereon.

4. In an insulator the combination of the lower hollow base section having the exteriorly rounded and upper surface, the hollow conical upper base section having the interior of its lower edge fitted to the upper
10 surface of the lower section and universally adjustable thereon, and an insulator column resting upon said upper section and provided with an extension passing downwardly
15 into the base.

5. The combination with the hollow lower base section having the upper exterior spherical surface and the upper hollow base section having the lower portion fitting over and universally adjustable upon the lower section of an insulator embodying one or more
20 petticoated insulating sections supported upon the upper edge of the upper base section and having the downwardly extending portion passing into the base.

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