

C. J. DORFF.
INSULATOR PIN.
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937,515.

Patented Oct. 19, 1909.

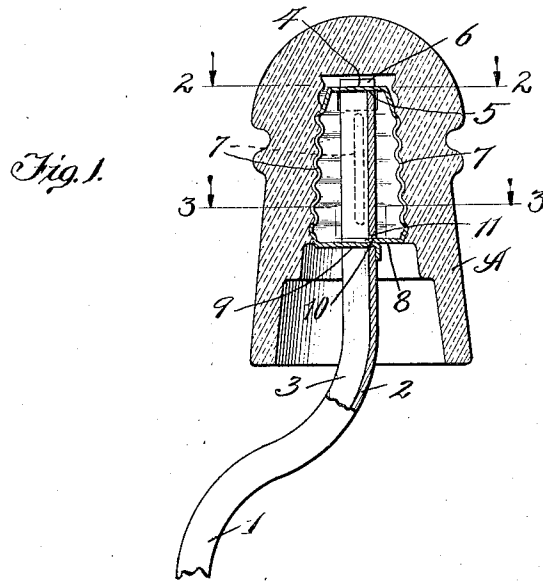


Fig. 2.

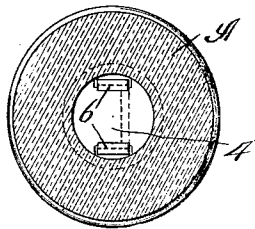
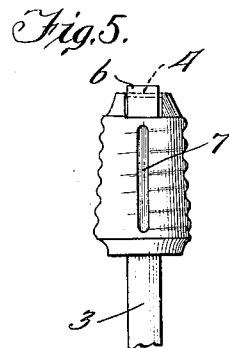
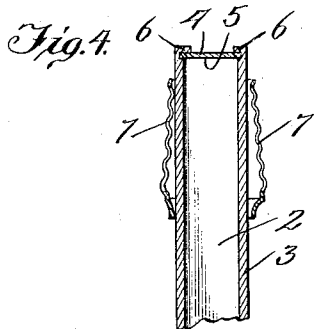
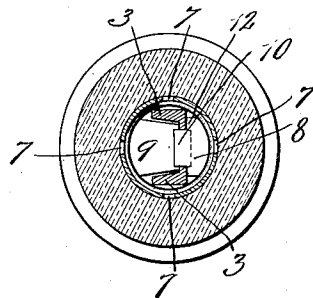


Fig. 3.



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UNITED STATES PATENT OFFICE.

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INSULATOR-PIN.

937,515.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CONRAD J. DORFF, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Insulator-Pins, of which the following is a specification.

This invention relates to pins intended to support insulators such as the glass insulators commonly used for telegraph and telephone wires.

The object of the invention is to improve the construction of such devices with a view to cheapness of manufacture and increased efficiency.

In the accompanying drawings, Figure 1 is a vertical central section through a device embodying the features of my invention. Figs. 2 and 3 are horizontal sections on lines 2 2 and 3 3, respectively, of Fig. 1. Fig. 4 is a vertical central section, and Fig. 5 is a side elevation of a modification.

The embodiment herein shown of my invention comprises a bracket or arm 1 and a section attached to said arm upon which a glass insulator A may be screwed. In this instance the arm 1 is formed from channel iron and comprises the web 2 and the side flanges 3.

The screw section is of generally frusto-conical form and is formed up from a piece of sheet metal. It comprises the top portion 4 adapted to lie in a notch 5 formed in the upper end of the arm 1, being secured in place by riveting over the upper projecting portions 6 of said arm. The screw section is rendered somewhat compressible by forming therein a plurality of slots 7, in order to accommodate the often irregular screw threads of an ordinary molded glass insulator, and also to provide for the expansion and contraction of the pin under varying temperatures without liability of breaking the insulator, the screw section yielding under such conditions.

In the form shown in Figs. 1 and 3 inwardly extending lugs 8 and 9 are formed upon the lower end of the screw section at diametrically opposite points, the end of the

lug 8 being reduced in width to form a tongue 10 extending through an opening 11 in the web 2 of the arm 1, and to provide shoulders 12 bearing against one side of said arm. The lug 9 extends through said opening, its end being bent to retain it in place therein. As shown in Fig. 3, the bottom of the screw section may contact the sides of the arm 1 to assist in holding the screw section against swinging with relation to said arm.

In the embodiment shown in Figs. 4 and 5 the lugs 8 and 9 are dispensed with, the lower end of the screw section bearing against the sides of the arm 1 and preventing any considerable movement of said section with relation to said arm.

Obviously changes in details of construction in the present embodiment may be made within the scope of the invention, wherefore I do not limit myself to the precise form shown and described.

I claim as my invention:

1. An insulator pin comprising a supporting arm, a hollow screw-threaded member secured at one end to said arm, said member being circumferentially integral and having slots therein, and means at the other end of said member arranged to engage said arm to prevent relative movement of said parts.

2. An insulator pin comprising a supporting arm, and a hollow, substantially frusto-conical, screw-threaded member carried by said arm, the larger end of said member being reduced in diameter to contact the sides of said arm to prevent movement of said member laterally of said arm.

3. An insulator pin comprising a supporting arm, a hollow screw-threaded member carried by said arm, said member having slots therein terminating short of one end of said member, and two diametrically opposite lugs at one end of said member, said lugs extending into an opening in said arm, the end of one of said lugs being bent to retain it in place in said opening.

4. An insulator pin comprising a supporting arm, a substantially frusto-conical sheet metal screw section having slots therein and

an attaching portion at one end secured to
said arm, the other end of said screw section
being reduced in diameter to contact the
sides of said arm, and two diametrically op-
5 posite lugs on the last mentioned end of said
screw section, said lugs extending into an
opening in said supporting arm, the end of

one of said lugs being bent to retain it in
place in said opening.

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