Dec. 6, 1927. 1,651,704

L. E. HENDEE

LINE INSULATOR

Filed March 17, 1922

FIG. 1

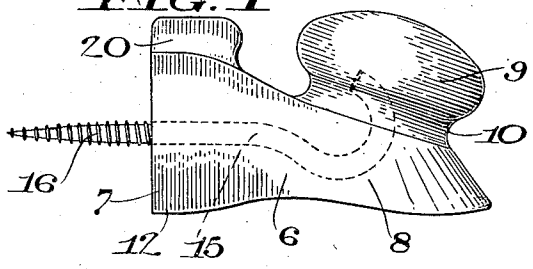


FIG. 2

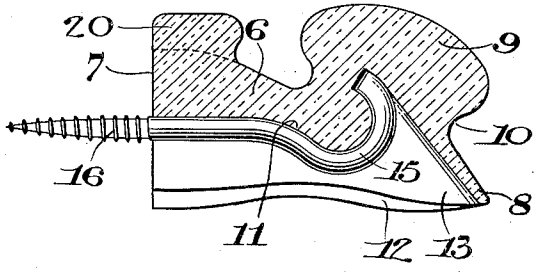


FIG. 3

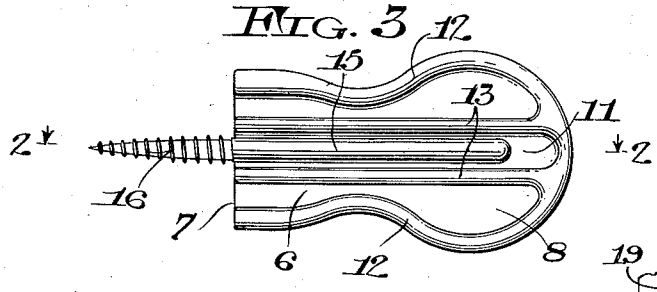


FIG. 5

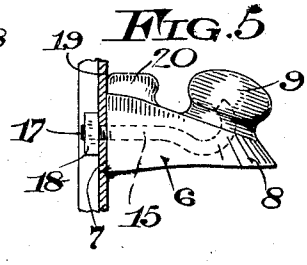
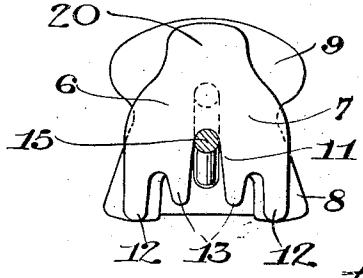


FIG. 4



WITNESSES

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UNITED STATES PATENT OFFICE.

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LINE INSULATOR.

Application filed March 17, 1922. Serial No. 544,491.

The invention relates to insulators.

The object of the invention is to provide an insulator having a knob or wire-receiving part and an attaching member which may be connected to the insulator so as to be screwed into the support on the turning of the insulator.

A further object of the invention is to provide an insulator having a recess to receive the hooked end of an attaching member which secures the insulator to the support, the screwing up of the insulator serving to tightly bind the hook against the insulator.

With the above and other objects in view the invention consists in the construction and the several features thereof hereinafter described and all equivalents.

In the drawings: Fig. 1 is a side view of an insulator embodying the invention; Fig. 2 is a section taken on the line 2—2 of Fig. 3; Fig. 3 is a bottom view of the insulator; Fig. 4 is a rear end view of the device, part being shown in section; Fig. 5 is a view similar to Fig. 1 with the attaching member threaded for connection to a metal part.

In the drawings the numeral 6 designates the member of insulating material, such as porcelain, having a flat base portion 7, a body portion 8, and a knob portion 9 extending at an angle to the body portion, and 10 an annular wire-receiving groove at the base of the knob portion 9. It will be noted that the axis of the knob is almost at right angles to the axis of the base portion. The member 6 is provided with a recess 11 here shown as extending into the body and knob portion of the insulator from the underside. Petticoats 12 and 13 are also provided on the insulator to increase the extent of surface insulation between the groove 10 and the recess 11 and thereby minimize leakage losses.

The bottom of the recess 11 is formed to conform to the shape of the attaching member used and in the present instance the bottom of this recess is shaped to fit a screw-hook 15 slipped into it.

This screw-hook 15 may have a lag-screw end 16 or a machine-screw end 17. The lag-screw form is used for attaching the insulator to wood supports while the machine-screw form may be used, as shown in Fig. 5, in connection with a nut 18 to clamp the insulator to a bracket 19, such as a channel iron bracket, which is in turn secured to a support. In either case when the hook is screwed up the base of the insulator will come into engagement with the support in which the screw-hook is carried and at the same time pressure will be exerted upon the insulator by the hook to firmly hold the insulator to the hook and against the support. The hook may be cemented into the recess, if desired. The hook preferably extends into the knob portion adjacent the grooves so that in case the knob breaks the line will be caught by the hook. The line is attached to the insulator in any of the well known ways. The insulator in the preferred form, as here shown, forms in effect a hook of insulating material with which the line may engage. The base 7 may have a knob portion 20 projecting therefrom so that if the line wire becomes detached it could not slide back and touch the house or other support upon which the insulator is mounted.

I desire it to be understood that this invention is not to be limited to any specific form or arrangement of parts except in so far as such limitations are specified in the claims.

What I claim as my invention is:

1. An insulator comprising a member of insulating material having a base portion and a knob portion disposed at an angle to said base portion, and a threaded attaching member having a shank portion disposed in and projecting from said base portion and a hooked head end projecting into said knob portion to be rotatable by said insulating member for clamping the base portion of said insulating member against a support.

2. An insulator comprising a member of insulating material having a base portion and a wire attaching knob disposed at an angle to said base portion, there being a recess opening at said base and extending into the knob and having a hook-shaped bottom, and an attaching screw projecting from said base portion and having a hooked end non-rotatably seated in the bottom of said recess and projecting into said knob to be rotated by said insulating member for clamping the base portion against a support.

3. An insulator comprising a member of insulating material having a base portion and a wire-receiving portion, there being a slot extending longitudinally of said member and opening to its bottom and to said base and including a reversely curved pocket at

its forward end, and a threaded attaching member disposed in said slot and having a hooked forward end engageable with said pocket to prevent relative rotation and permitting the insulating member to turn said attaching member for effecting the clamping engagement of said base with a support.

4. An insulator comprising a member of insulating material having a body portion adapted to abut against a support and a knob portion extending upwardly at an angle to said body portion and having a peripheral wire-receiving groove, a screw having a head within said knob portion and a projecting shank for securing said member to a support with the end of said body portion abutting thereagainst, and a second knob portion extending upwardly from said body portion behind said first-named knob portion and projecting to the plane of said wire-receiving groove to form a stop preventing a conductor secured to said knob portion from moving into contact with said support.

In testimony whereof I affix my signature.

LEM E. HENDEE.