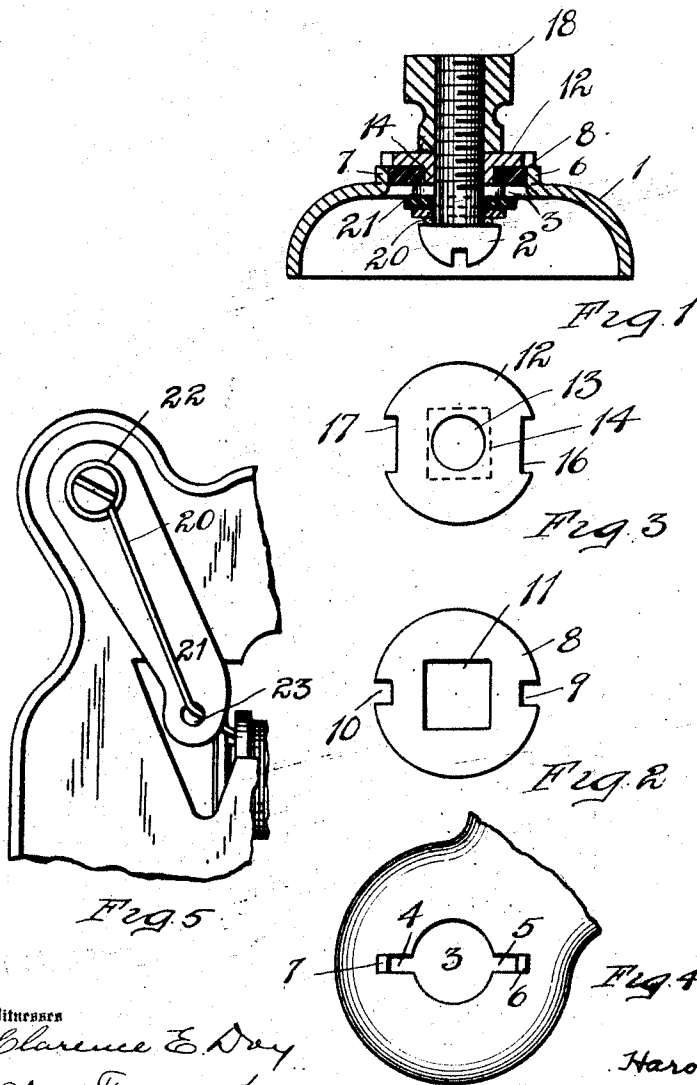


H. W. EDEN.
ELECTRIC INSULATOR.
APPLICATION FILED DEC. 7, 1908.

949,726.

Patented Feb. 15, 1910.



Witnesses
Clarence E. Day
Alice Townsend

Inventor
Harold H. Eden
Parker & Burton
Attorneys

UNITED STATES PATENT OFFICE.

HAROLD W. EDEN, OF DETROIT, MICHIGAN, ASSIGNOR TO P. R. MANUFACTURING COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

ELECTRIC INSULATOR.

949,726.

Specification of Letters Patent.

Patented Feb. 15, 1910.

Application filed December 7, 1908. Serial No. 468,199.

To all whom it may concern:

Be it known that I, HAROLD W. EDEN, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful improvement in Electric Insulators, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to electric insulators, and it has for its object an improved construction of binding post especially applicable to be used in connection with signal bells.

In the drawings:—Figure 1, is a vertical section through the post and its connections with the base of the bell. Fig. 2, is a plan view of the insulating disk. Fig. 3, is a plan view of the metallic washer used in connection with the insulating disk. Fig. 4, is a plan view of the base of the bell with which the post is connected. Fig. 5, is a plan view from beneath, showing the relation of the body, the insulating plate, and the lead wire.

The base of the bell is indicated at 1, and is made in the form of a pedestal, concaved on its under side to form a chamber for the reception of the screw 2. The metal across the top of the pedestal is pierced with a round hole 3, for the passage of the screw and with short slots 4, 5, leading out from the round pierced plate and the metal of the slots is turned up to form small lugs 6, 7, whose purpose is to prevent the insulating washer from turning on its vertical axis or on the screw and thereby serves to form a partial locking of the screw 2. A disk 8, of insulating material, with short side notches 9, 10, engages over the body part of the structure 1, with the lugs 6, 7, engaging in the notches 9, 10. The disk is pierced with a prismatic hole 11, preferably rectangular. A metal disk 12, pierced with a round hole 13, and with a neck 14 projecting below the disk, engages over the insulating disk with

the prismatic neck projecting into the prismatic hole 11. The metal disk 12 is provided with notches 16, 17, that are arranged to clear the metal lugs 6 and 7, which project upward to and possibly may project slightly above the insulating disk 8. The round hole 13, is threaded and screw 2 is run from the under side through the threaded neck of the disk 12. The head of the screw 2 bears against the under side of the base or body part of the structure and holds the parts securely together. A nut 18 run onto the upper end of the screw 2 serves as a binding nut to secure the line wires to the bell. The lead wire 20 to the magnet is arranged on the under side of the body part of the structure between the head of the screw 2 and an insulating plate 21, which is laid against the body part of the structure. The insulating plate 21 is provided with a hole 22, through which the screw 2 engages. At its opposite end it extends to close relation with the magnet and is provided with a guide hole 23, through which the lead wire to the magnet is threaded. The lead wire is thus effectually insulated from the metal of the frame by the insulating plate 21.

What I claim is:—

1. In an insulated binding post for electrical instruments, having in combination a base provided with an opening for the passage of a screw shank and with holding lugs projecting above the said base, an insulating disk engaging against the body part between the said lugs, a holding disk provided with a prismatic neck member adapted to engage in a prismatic hole in said insulating disk, a screw adapted to secure the parts in place, and a jam nut, substantially as described.

2. An electrical insulating device, having in combination with a dished base plate, having an aperture therethrough, a perforated metal disk provided with a depending neck portion adapted to depend into said apertured portion of the base plate, a binding nut adapted to rest on said disk, a holding screw adapted to extend from beneath through said neck portion of the disk and

said apertured portion of the base plate, an
insulating disk interposed between the de-
pending neck of said metal disk and the
adjacent portion of the base plate, an aper-
5 tured insulating plate interposed between
the head of the screw and the under surface
of the base plate, substantially as described.

In testimony whereof, I sign this specifi-
cation in the presence of two witnesses.

HAROLD W. EDEN.

Witnesses:

ALECIA TOWNSEND,
WILLIAM M. SWAN.