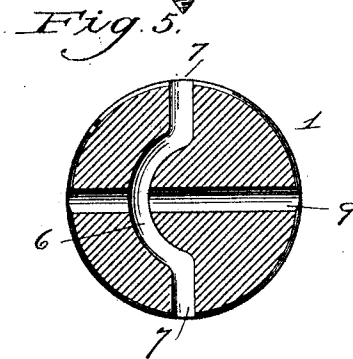
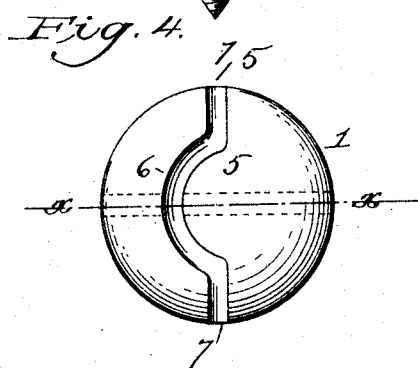
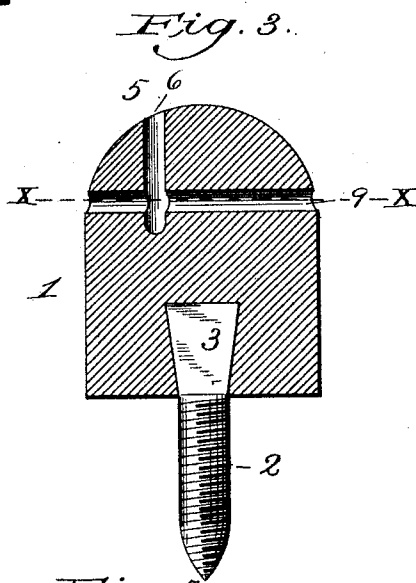
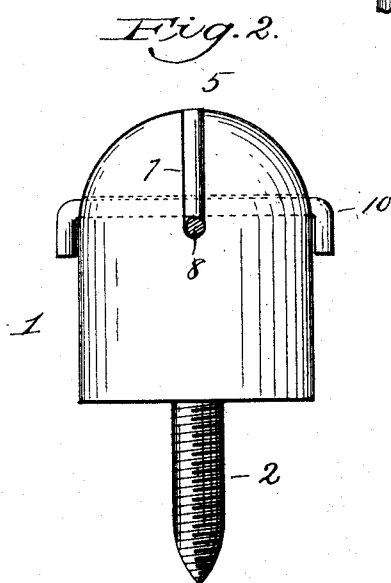
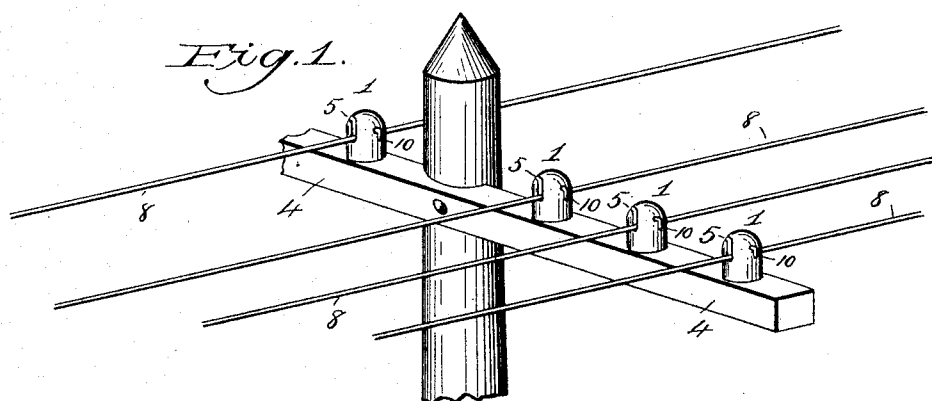


(No Model.)

H. W. STEINBERG, Jr.
INSULATOR.

No. 586,372.

Patented July 13, 1897.



WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY W. STEINBERG, JR., OF WALLA WALLA, WASHINGTON.

INSULATOR.

SPECIFICATION forming part of Letters Patent No. 586,372, dated July 13, 1897.

Application filed December 3, 1896. Serial No. 614,372. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. STEINBERG, Jr., a citizen of the United States, residing at Walla Walla, in the county of Walla Walla and State of Washington, have invented certain new and useful Improvements in Insulators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in insulators for telegraph and telephone wires, the object of the same being to provide an insulator in which the wire may be readily inserted and removed, in which the same is securely held in place, and in which slipping and sagging of the line-wire are prevented.

The invention consists of a block of glass, wood, or other insulating material, having a screw cast or otherwise formed in the lower end thereof, by means of which said block may be attached to the cross-tree of the telegraph-pole, the said block having a slot in its upper end in which the line-wire is adapted to fit, the said slot having a central curved portion and straight extensions leading outwardly therefrom and a laterally-extending opening in said block in which a securing-wire is adapted to be passed, the said opening extending through the slot in said block at a point just above the lower end thereof.

The invention also consists in other details of construction and combinations of parts which will be hereinafter more fully described and claimed.

In the drawings forming a part of this specification, Figure 1 represents a perspective view of a telegraph-pole with a series of my insulators shown attached to the cross-tree thereof. Fig. 2 is a side elevation of the insulator with the laterally-extending opening therein shown in dotted lines. Fig. 3 is a vertical longitudinal section through the line $x x$, Fig. 4. Fig. 4 is a top plan view, and Fig. 5 is a cross-section, on the line XX of Fig. 3.

Like reference-numerals indicate like parts in the different views.

My improved insulator is made up of a block 1, preferably polygonal in cross-section

in order that it may receive a wrench, and constructed of glass or other suitable insulating material. In its lower end is cast or otherwise formed a screw 2, having a rectangular or irregularly shaped head 3 for preventing the independent turning of said screw. The lower end thereof projects outwardly from the lower end of the block 1 and is adapted to be screwed into the cross-tree 4 of the telegraph-pole. In the upper end of the block 1 is formed a slit 5, which extends down to a point adjacent to the center of said block and is formed with a central curved portion 6 and straight outer ends 7 7, which lie in direct line one with the other. In this slit the line-wire 8 is adapted to be inserted, the same being slightly bent or crimped in order to conform to the shape of said slit. When seated, it fits within the lower end of said slit. The block 1 is further provided with a laterally-extending slot or opening 9, which extends through the slit 5 at a point just above the lower end thereof, as clearly shown in Fig. 3 of the drawings. In this opening a short securing-wire 10 is adapted to be passed for holding the line-wire 8 in place and preventing its accidental removal. The ends of the securing-wire 10 may be bent around the outer ends of the opening 9, so that it cannot slip out of the same itself.

As thus constructed, it will be seen that I have devised an extremely simple insulator, in which a telegraph or telephone wire may be readily inserted and removed and which by reason of the shape of the slit in which said line-wire fits prevents all slipping or sagging of said line-wire. The securing-wire 10 when in place lies directly above the line-wire 8 and prevents any upward movement of the latter.

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

1. An insulator for telegraph and other wires, consisting of a block of glass or other insulating material, a screw cast or otherwise secured in said block by means of which the same may be attached to a suitable support, the said block being further provided with an irregularly-shaped slit in its upper end in which the line-wire is adapted to fit, and with an opening extending laterally through said

block and passing through said slit at a point just above its lower end, and a securing-wire fitting within said opening, substantially as and for the purpose described.

- 5 2. An insulator for telegraph and other wires, consisting of a block of glass or other suitable insulating material, a screw having a polygonal or irregularly shaped head cast or otherwise secured in the lower end of said
10 block and projecting outwardly therefrom, by means of which the same may be attached to a suitable support, the said block being further provided with a slit in its upper end which terminates at a point adjacent to the
15 longitudinal center of said block and is formed with a central curved portion with outwardly-

extending straight ends in a line one with the other, and with an opening extending laterally through said block and passing through said slit at a point just above its lower end, 20 and a securing-wire fitting within said opening and having its outer ends bent for preventing the slipping or displacement thereof, substantially as and for the purpose described. 25

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY W. STEINBERG, JR.

Witnesses:

VICTOR WILSON,
OSCAR L. INGRAM.