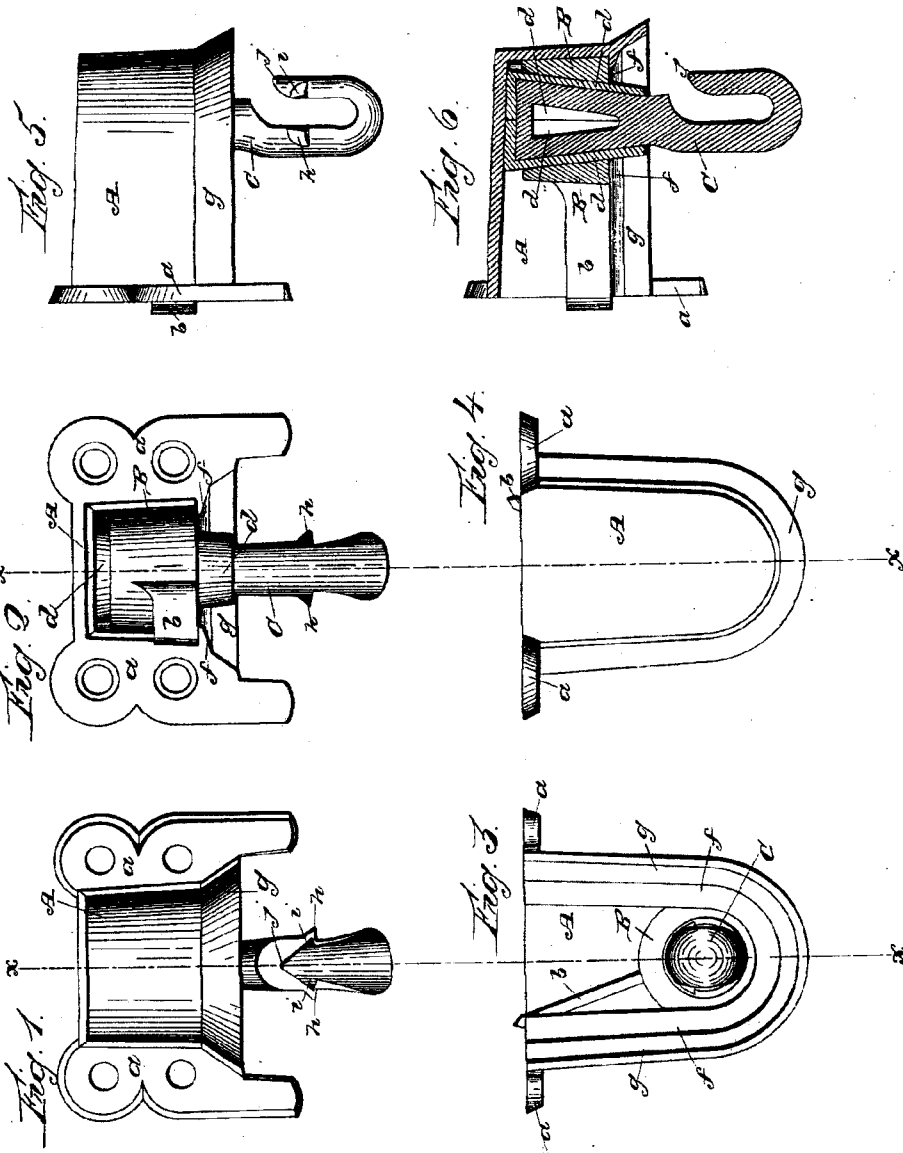


Z. C. ROBBINS.
Insulator for Telegraph Wires.

No. 8,419.

Patented Oct. 14, 1851.



UNITED STATES PATENT OFFICE.

ZENAS C. ROBBINS, OF WASHINGTON, DISTRICT OF COLUMBIA.

INSULATOR FOR TELEGRAPH-WIRES.

Specification of Letters Patent No. 8,419, dated October 14, 1851.

To all whom it may concern:

Be it known that I, ZENAS C. ROBBINS, of the city of Washington, in the District of Columbia, have invented a new and Improved Insulating-Supporter for Telegraph-Wires; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification.

Figure 1 is a front view of my insulating supporter; Fig. 2, a rear view; Fig. 3, a view of its inner side; Fig. 4, a top view; Fig. 5, a side elevation; and Fig. 6, a vertical section of the same in the lines x, x , of Figs. 1, 2, 3 and 4.

Similar letters indicate like parts in all the figures.

My improved insulating supporter for telegraph wires, is composed of the supporting and protecting cover A, the winged conical tube B, the wire holder C, and the insulating segments d, d , arranged and combined with each other substantially as represented in the drawings and hereinafter set forth.

The form of the supporting and protecting cover A, is clearly shown in the drawings; being open at its lower side and inner end, and its top and sides being sufficiently flaring to admit of its being molded and cast in metal without the use of a core. The flanges a, a , which project laterally from the inner extremities of the sides of the supporting and protecting cover A, have conical shaped holes cast in them, which receive nails—or screws—for confining the said cover to a post or other supporter. The ledge f , which projects inwardly from the sides and curved outer end of the said supporting and protecting cover, furnishes a support to the winged conical tube B. The conical aperture in the winged tube B, is smallest at its lower end; and the conical outer periphery of the said tube, is smallest at its upper end; which form enables the said tube to be easily molded for casting. The wing b , projecting from the side of the tube B, serves to push the said tube firmly into the outer end of the supporting and protecting cover A, and retain it there when the said cover is nailed to a post or other supporter.

The wire holder C, has at its upper end an enlarged head, and at its lower end a hook, or other suitable contrivance for holding

the wire. The head of the wire holder is secured within the winged conical tube B, and at the same time insulated, by segments d, d , of gutta percha, or other suitable material; which are of such a shape and size as to cover the top and sides of the head of the said wire holder, and to fit so closely into the aperture in the winged tube B, as to prevent the head of the said wire holder from being drawn through the said tube, at the same time that they prevent the possibility of its coming in contact with the said tube, or with the under side of the top of the supporting and protecting cover A. The flange g , which projects outwardly from the lower edges of the sides and outer end of the supporting and protecting cover A, serves to prevent water and snow from being driven under the cover and destroying the insulation of the wire holder.

The wire holder C, has an additional protection against injury to its perfect insulation, by having the insulating segments d, d , descend thereon some distance below the bottom of the tube B; which segments serve to keep the shank of the said wire holder dry, and thereby prevent all conducting connection between the said holder and the tube B, and also between it and the supporting and protecting cover A.

The telegraph wire may be securely fixed within the wire holder by means of a piece of small annealed wire; or may be so secured therein that it can have free longitudinal play. The points h, i , which project from the sides of the wire holder C, serve a double purpose, viz: first, they aid in confining the telegraph wire within the wire holder, by keeping the small fastening wire in its place; and secondly, they serve to discharge atmospheric electricity, when the telegraph wire is heavily charged with that fluid.

What I claim as my invention and desire to secure by Letters Patent, is—

My improved insulating supporter for telegraph wires, composed of the supporting and protecting cover A, the winged tube B, the wire holder C, and the insulating segments d, d , arranged and combined with each other substantially in the manner herein represented and described.

Z. C. ROBBINS.

Witnesses:

J. S. BROWN,
J. DENNIS, Jr.