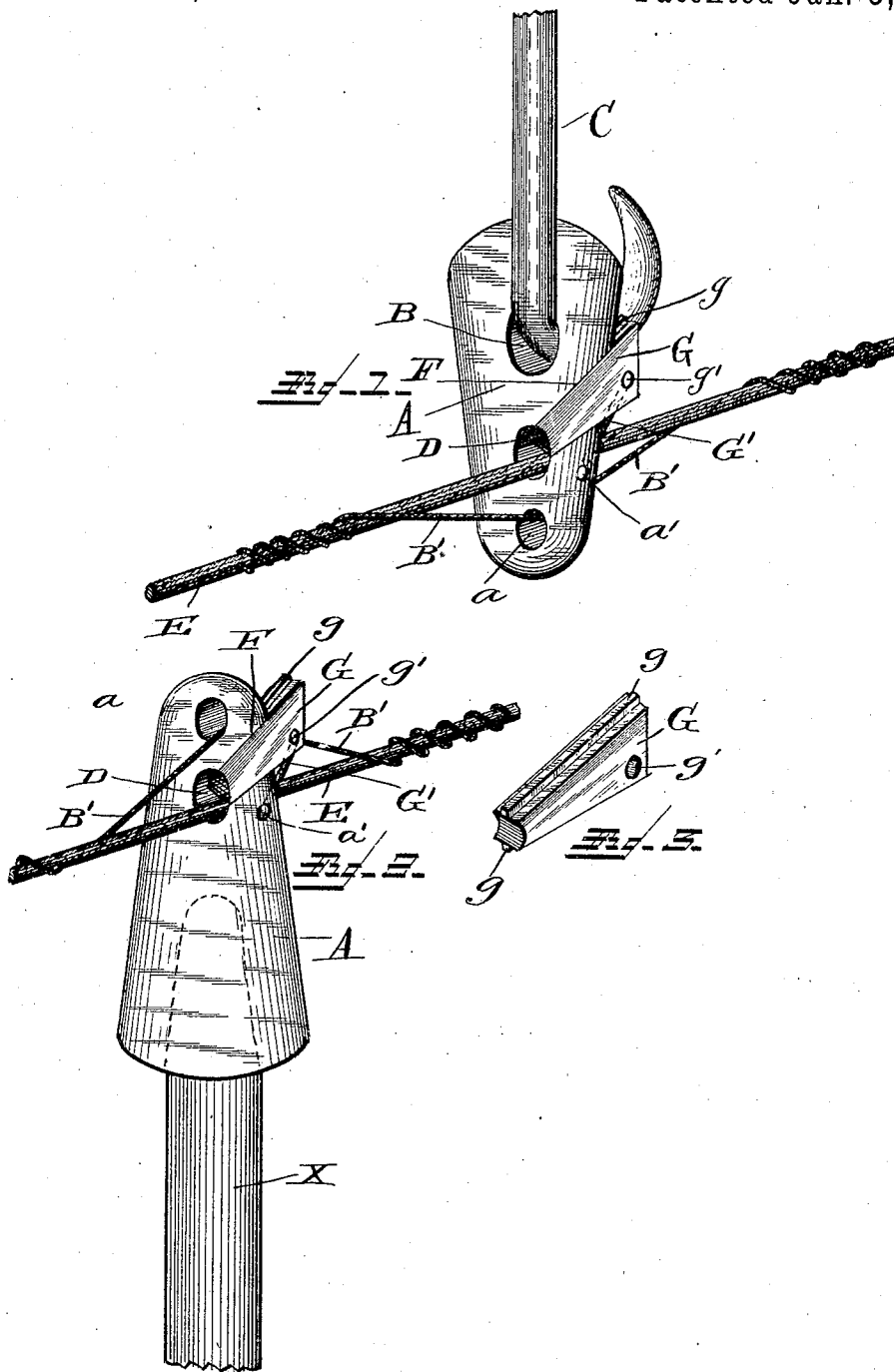


(No Model.)

B. D. B. SMOCK.
INSULATOR.

No. 574,828.

Patented Jan. 5, 1897.



Witnesses
Jos. Gregory
A. A. Han.

Inventor
Benjamin Du Bois Smock
By John Hedderburn
his Attorney

UNITED STATES PATENT OFFICE.

BENJAMIN D. B. SMOCK, OF WICKATUNK, NEW JERSEY.

INSULATOR.

SPECIFICATION forming part of Letters Patent No. 574,828, dated January 5, 1897.

Application filed March 10, 1896. Renewed December 14, 1896. Serial No. 615,713. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN DU BOIS SMOCK, a citizen of the United States, residing at Wickatunk, in the county of Monmouth and State of New Jersey, 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.

This invention relates to a certain new and useful improvement in insulators for the support of electric wires and the like; and it has for its object, among others, to provide a simple and cheap insulator readily applied and still by which the wires will be securely and firmly held and from which they cannot become accidentally displaced. My insulator is designed to be used either upon the upper end of a pole or other support or from a suspending device of any sort.

The invention is capable of embodiment in various forms, some of which only are herein illustrated. The insulators may be made of various shapes and sizes.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of one form of my improved insulator. Fig. 2 shows the same form supported upon the upper end of an upright. Fig. 3 is a view of the wedge employed.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates the insulator, of glass or other suitable material, preferably substantially cone-shaped, as shown, and as seen in Fig. 1 it is formed with a hole B for the reception of the hook C or hanger, which may be suspended from any suitable support. The insulator is further provided with an opening D for the reception of the wire E, and this opening has an inclined outlet F, through

which the wire may be introduced, and, further, with an opening *a*, through which the anchor-wire B' may be passed, and the ends thereof wound upon the wire E, as shown. After the wire E is in position it may be secured against accidental displacement in any suitable manner. I have shown a wedge G, which is provided with ribs *g*, adapted to enter corresponding recesses or grooves in the opposite walls of the inclined opening in the body portion of the insulator. For further security the wedge is shown as provided with an opening *g'*, through which and an opening *a'* in the body portion of the insulator may be placed a wire G' to fasten the wedge in place.

When the insulator is to be used on a pole or other support, as seen in Fig. 2, the opening or hole B is dispensed with, and in the larger end of the body portion is formed an opening into which the support X may be inserted. This opening may be screw-threaded, if desired. The insulator is used in an inverted position from what it is when suspended from a hanger, as will be readily understood.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

The facility with which the device may be attached to a cross-tree is important. It may be readily attached by a double hanger-pin, and permits the use of lighter poles, a diminished number of cross-trees, and facilitates the unhooking and repairing.

What is claimed as new is—

1. An insulator consisting of a body portion with an opening to receive a wire and a ribbed wedge adapted to be inserted to hold the wire therein, as set forth

2. An insulator consisting of a body portion with an opening with inclined outlet having grooves, and a removable wedge having ribs fitted to said grooves, substantially as specified.

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

BENJAMIN D. B. SMOCK.

Witnesses:

P. H. BRODHEAD,

FRANK P. McDERMOTT.