J. B. STEARNS.

Attaching Insulators to Telegraph Poles.

No. 107,303. Patented Sept. 13, 1870.

Fig. 1.

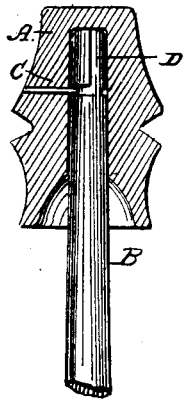


Fig. 2.

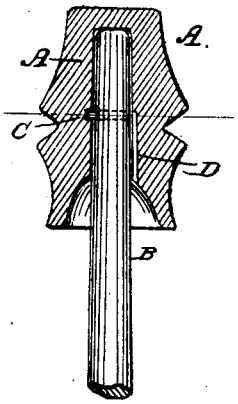


Fig. 3

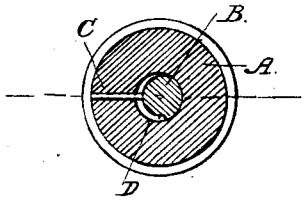
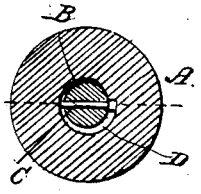


Fig. 4



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH B. STEARNS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN ATTACHING INSULATORS TO TELEGRAPH-POLES.

Specification forming part of Letters Patent No. **107,303,** dated September 13, 1870.

To all whom it may concern:

Be it known that I, JOSEPH B. STEARNS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Attaching Telegraph-Insulators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in attaching the glass insulators for telegraph-wires to their supports, whereby it is designed to provide a means of accomplishing the same more readily than can be done by screwing them on, as is now done.

It consists in providing the inner walls of the holes in the insulator with right-angled grooves, and the sticks or supports with pins, to engage the same in the manner of bayonet-fastenings, or the grooves may be on the sticks and the pins in the insulators, all as hereinafter more fully specified.

Figure 1 is a sectional elevation of an insulator and stick, showing the groove in the stick and the pin in the insulator. Fig. 2 is a sectional elevation, showing the other arrangement; and Figs. 3 and 4 are sections of Figs. 1 and 2, respectively.

Similar letters of reference indicate corresponding parts.

A is the glass insulator, and B the sticks for the support of the same. C is a pin or stud projecting from the inner wall of the insulator. D is the groove in the stick. This groove extends from the top of the stick downward as far as the pin C is from the bottom of the hole in the insulator, and then turns at right angles and extends nearly around the stick.

In Figs. 2 and 4 the groove is represented as in the wall of the hole of the insulators and the pin in the stick. In this case the pin is placed as far below the top of the stick as the lateral part of the groove is from the bottom of the hole.

That part of the groove extending around the circular walls of the holes or the pins may be made inclined or eccentric to the walls in the direction to cause them to have less depth, so that the studs will bind and hold the insulators firmly, as shown in Figs. 2 and 4.

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

Attaching telegraph-insulators to their sticks or supports by means of the right-angled grooves D on the one and the pins C on the other, arranged substantially as herein specified.

The above specification of my invention signed by me this 26th day of November, 1869.

JOSEPH B. STEARNS.

Witnesses:

JAS. G. SMITH,

GEO. W. MABEE.