

D. BROOKS, Jr.  
Telegraph Insulator.

No. 200,124.

Patented Feb. 12, 1878.

Fig. 1.

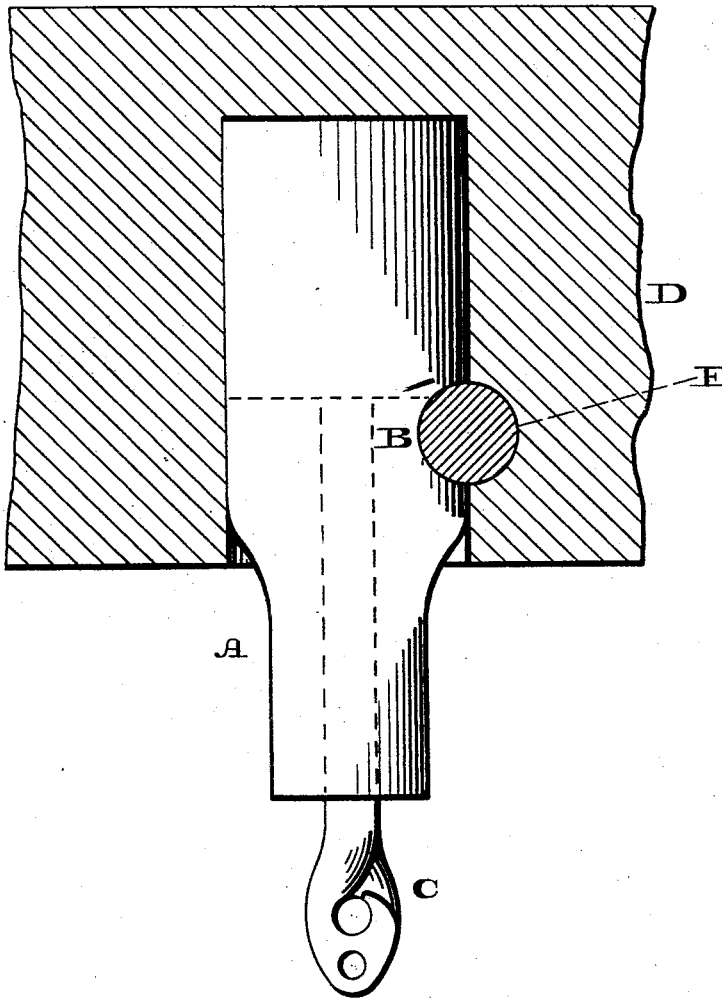
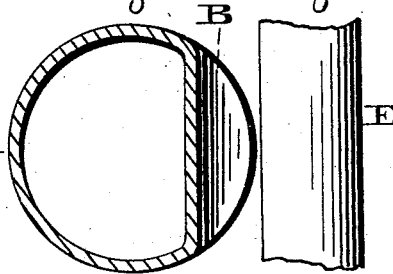


Fig. 2.

Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN TELEGRAPH-INSULATORS.

Specification forming part of Letters Patent No. **200,124**, dated February 12, 1878; application filed April 19, 1877.

*To all whom it may concern:*

Be it known that I, DAVID BROOKS, Jr., of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Insulators, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation, partly sectional, of the insulator embodying my invention. Fig. 2 is a transverse section of a portion thereof. Fig. 3 is a face view of the fastening-key.

Similar letters of reference indicate corresponding parts in the several figures.

My invention relates to that class of telegraphic insulators in which a blown-glass bottle is employed to hold the wire-holder; and consists in forming the bottle with a groove or flute upon one of its sides, with which engages a pin, key, or equivalent device, passed through the cross-arm which supports the line, and thereby provides a simple, easily-applied, and reliable fastening or lock for holding the insulator in position, and also dispenses with the necessity of employing any outer shell or casing other than that supplied by the support.

Referring to the drawings, A represents the bottle, which is made of vitreous material, and in the process of being blown or formed has pressed in its side a groove or flute, B, which may extend at any angle to the longitudinal direction of the bottle. C represents the hook to which the line-wires will be attached.

The bottle is shown in Fig. 1 in position in the body of the cross-arm or support D, and

fastened by a pin or key, E, passed through an opening in said support, so as to enter the space of the groove or flute B, whereby the pin will prevent the withdrawal of the bottle from the support, and said bottle will be securely fastened or locked in position.

It is evident that the bottle may be displaced, when required, simply by drawing or driving the pin from the support, whereby the bottle, no longer controlled by said pin, is free to be removed.

It is also evident that the shape of the groove or flute may be of angular, curved, conical, or other form, the key being correspondingly shaped, and may be formed at any desired angle upon the side of the bottle, so as to properly engage with the groove or flute of the bottle and the corresponding opening of the cross-arm or support, in order to hold the bottle in place.

It will also be seen that the blown groove or flute projects into the interior of the bottle, and serves in a measure to hold the fastening of the hook C.

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

The bottle A, to which the hook C is attached, having a groove or flute blown in its side, substantially as and for the purpose set forth.

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