

C. LINKE.
MEANS FOR VISIBLY INDICATING FAULTY INSULATORS.
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967,649.

Patented Aug. 16, 1910.

Fig. 1

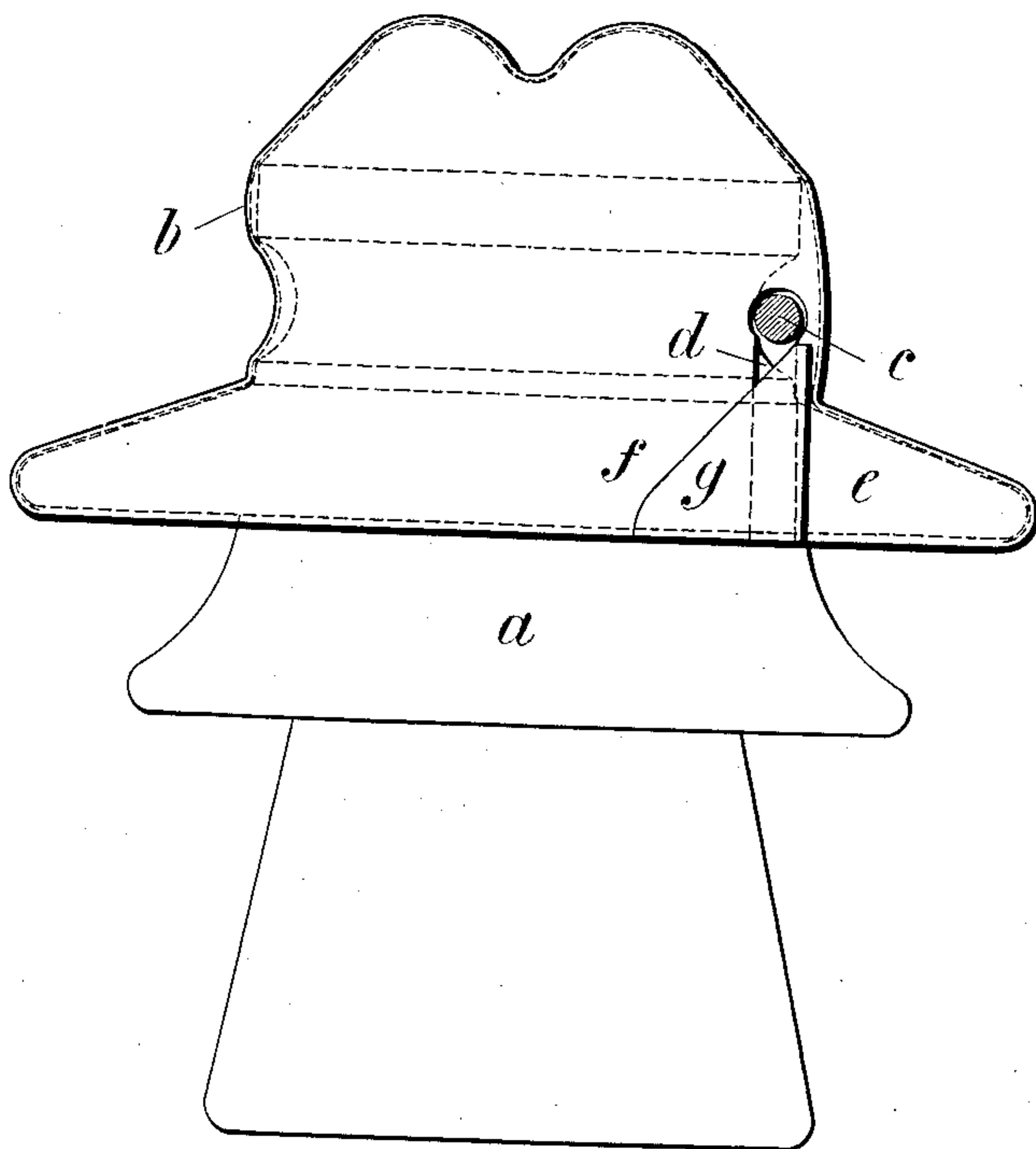
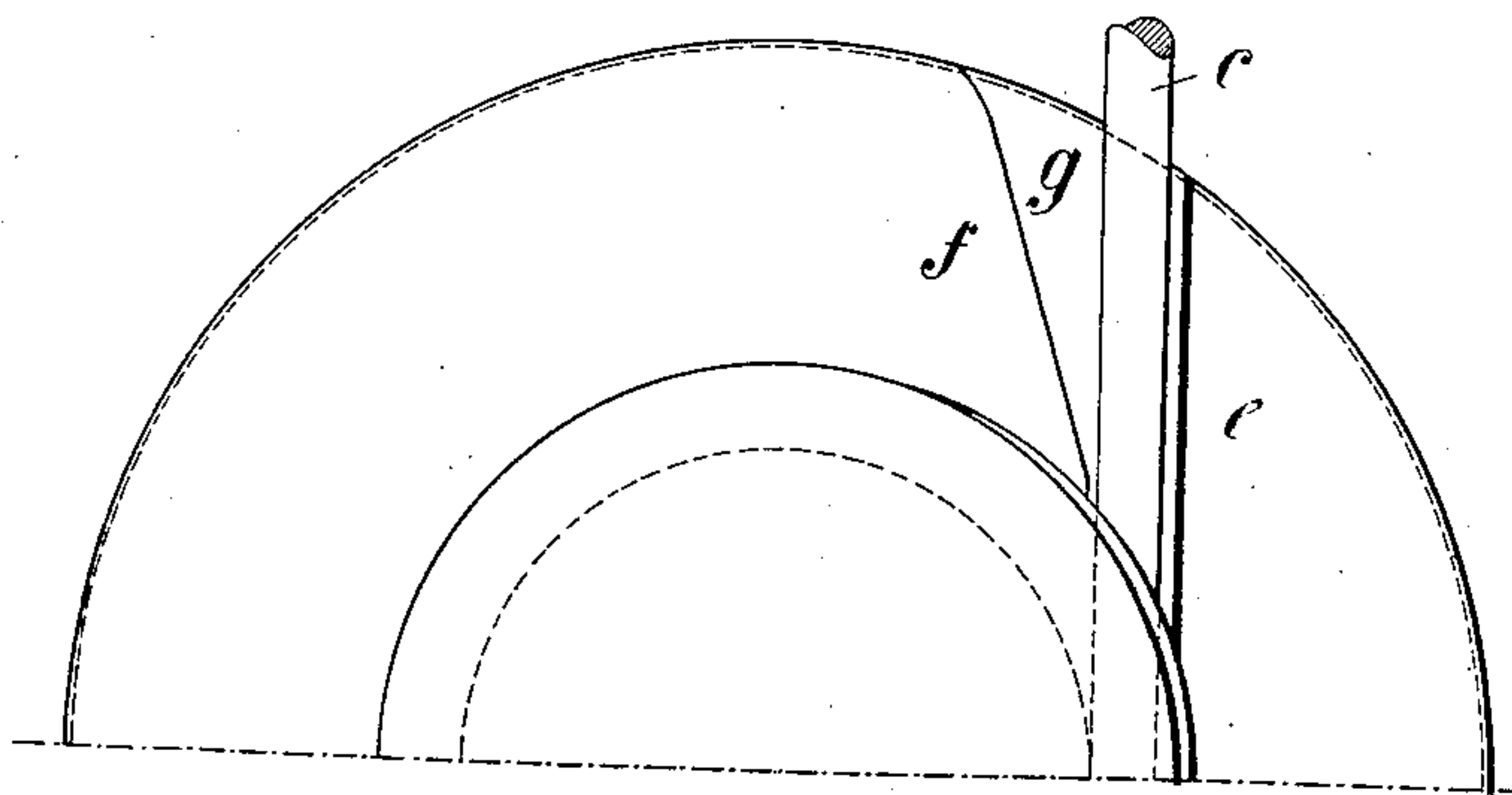


Fig. 2



Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES LINKE, OF STRASSBURG, GERMANY.

MEANS FOR VISIBLY INDICATING FAULTY INSULATORS.

967,649.

Specification of Letters Patent.

Patented Aug. 16, 1910.

Application filed June 30, 1909. Serial No. 505,289.

To all whom it may concern:

Be it known that I, CHARLES LINKE, a subject of the German Emperor, and residing at Strassburg, Alsace, German Empire, have invented certain new and useful Improvements in Means for Visibly Indicating Faulty Insulators, of which the following is a specification.

My invention has reference to insulators for high tension lines, and relates to means for visibly indicating the faulty condition of such insulators as have been damaged by short-circuiting or earth-connection.

According to my invention the insulators are provided adjacent to the conductor with hollow or solid rings, collars, bands, or the like of celluloid or some similar substance of a highly inflammable nature, passed around the insulator, for instance below the conductor. Or instead of such annular device, the insulator might be wholly or partly covered by a cap, hood, or the like of the highly inflammable material. In order that the device may be readily discerned by persons standing on the ground, it may be given a distinctive color, which distinguishes it from the body of the insulator. Instead of the combustible member being wholly of celluloid or the like, it might naturally be of some suitable material saturated with celluloid or a similar highly inflammable substance. On occurrence of short-circuiting or earth-connection, which is always attended by an arc or flame, the said collar, cap or like device, owing to its high inflammability, is rapidly volatilized and its absence is a clear indication to the lineman that the insulator in question is defective.

My invention is illustrated in the accompanying drawing, in which by way of example one form of capped insulator is shown.

Figure 1 is an elevation of the insulator, and Fig. 2 is a plan of the one half of the same.

The head *a* of the insulator is provided with a cap or hood *b* of celluloid or other

highly inflammable, but at the same time insulating and weatherproof material, which may be of some bright color, such as red. 50 To enable the cap to be set upon the insulator over the wire *c* it is slotted at *d*; or instead of such slotting it might be furnished with suitable sockets or the like. Should the material of the slotted cap be of 55 insufficient resiliency to insure a tight fit, the parts *e, f* separated by the provision of the slots *d* may be united by means of welts or covering-pieces *g* applied above or below the said parts and rendered adhesive by be- 60 ing dipped in or coated with a celluloid solvent. In this manner the slots are also closed against rain, dust, and the like, so that such a capped insulator is effectively protected from deposits, whereby marginal 65 discharges are likewise prevented.

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

1. In combination, an insulator, and a 70 highly inflammable, insulating member applied to the same, and adapted to be consumed by the arc arising on short-circuiting or earth-connection, substantially as and for the purpose specified.

2. In combination, an insulator, and a 75 distinctively colored, highly inflammable, insulating member applied to the same, and adapted to be consumed by the arc arising on short-circuiting or earth-connection, sub- 80 stantially as and for the purpose specified.

3. In combination, an insulator, and a highly inflammable, insulating cap fitting the same, and adapted to be consumed by the arc arising on short-circuiting or earth- 85 connection, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES LINKE. 90

Witnesses:

JOSEPH ROHMER,
AUGUST OOSTERMAN.