(No Model.)

C. A. LIEB.

FEED WIRE INSULATOR.

No. 520,855. Patented June 5, 1894.

FIG. 1.

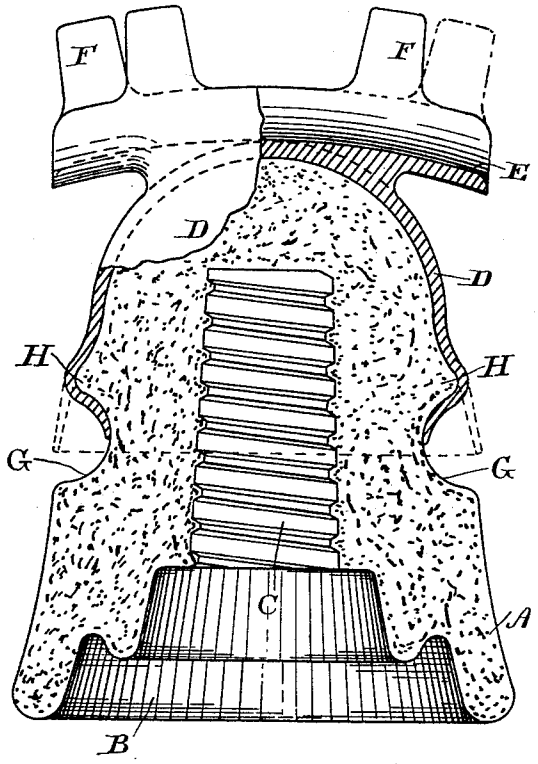
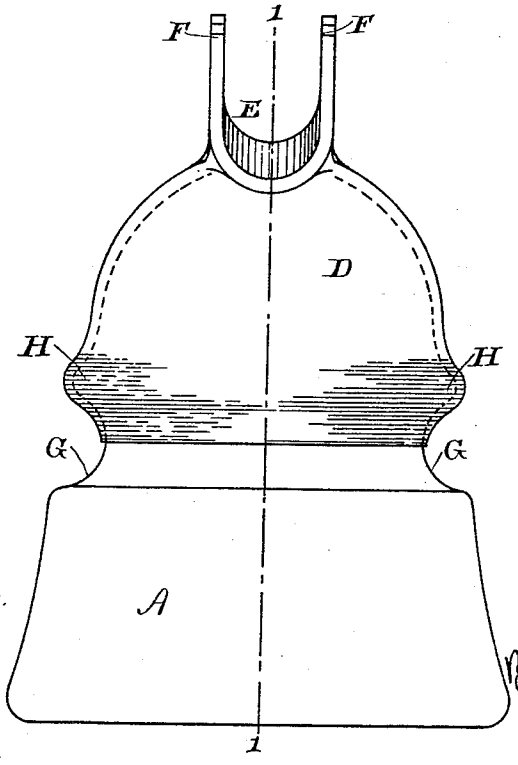


FIG. 2.



WITNESSES.
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UNITED STATES PATENT OFFICE.

CHARLES A. LIEB, OF NEW YORK, N. Y., ASSIGNOR TO THE GENERAL ELECTRIC COMPANY, OF BOSTON, MASSACHUSETTS.

FEED-WIRE INSULATOR.

SPECIFICATION forming part of Letters Patent No. 520,855, dated June 5, 1894.

Application filed April 12, 1894. Serial No. 507,246. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. LIEB, a citizen of the United States, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Feed-Wire Insulators, of which the following is a specification.

My invention relates to feed wire insulators, or more properly speaking to the cap and cone insulation commonly used to support feed wires or other large wires upon poles, and has for its object to produce an efficient insulator with a clip or grip for the wire which can be easily attached and which can be easily and cheaply constructed.

To the ends named I construct my improved insulator, as shown in the accompanying drawings, in which—

Figure 1 is a section upon the line 1—1 of Fig. 2, and Fig. 2 is an end elevation of an insulator constructed after my invention.

Referring by letter to the drawings, A is the body of the insulator, made of insulating material with a bell-chamber B to prevent the accumulation of moisture and provided with an internal screw thread C adapted to secure it to the pole fixture.

D is a cap for the insulator, made of any suitable metal, preferably of brass.

E is a sleeve or clip for the wire to rest in, which, as shown, is made with a curved bottom so that the sag of the wire upon each side will be provided for. F, F are the clips which are bent down over the wire when it is put in place, to preserve it in position.

As shown in the drawings, I provide a recess G in the cone, and after the part or cap D is constructed, I cramp the metal over the small shoulder H of the cone so that the cap cannot be withdrawn from it without destroying the parts.

I may make my improved insulator in two different ways; I may form the cone A first and cramp the part of the cap shown in dotted lines at I over the shoulder, as just explained, or I may form the cap D first, as illustrated in the drawings; and may then force the insulating material into it and complete the forming of the material in a mold under heat and pressure. I have found the material known as liebite peculiarly adapted to this method of construction; but I do not wish to confine myself to this particular material either in this construction or in the one first described, because my invention consists in the attachment of the parts to one another, and in the peculiar shape of the several parts and their combination, which together form a cheap, reliable and strong construction.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. As a new article of manufacture, an insulator for feed wires or other large electric wires, composed of a body of insulating material, and a metal cap therefor carrying a sleeve having a curved bottom for the feed wire, substantially as described.

2. As a new article of manufacture, a cap and cone insulator consisting of a body of insulating material provided with a recessed portion and a shoulder above such portion, a metal cap therefor having a part engaging with the shoulder, and a sleeve having a curved bottom adapted to contain the feed wire.

3. As a new article of manufacture, a cap and cone insulator comprising a body of insulating material having a screw thread to attach it to a post, a bell-shaped bottom, a recessed portion as G having a shoulder as H, a metal cap as D engaging with such shoulder and a sleeve having a curved bottom, as E, and clips as F arranged to secure the feed wire in place, all substantially as described and set out herein.

In witness whereof I have hereunto set my hand this 10th day of April, 1894.

CHARLES A. LIEB.

Witnesses:
WM. H. CAPEL,
THOS. F. CONREY.