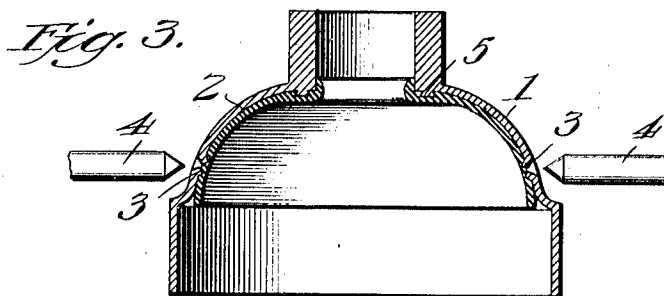
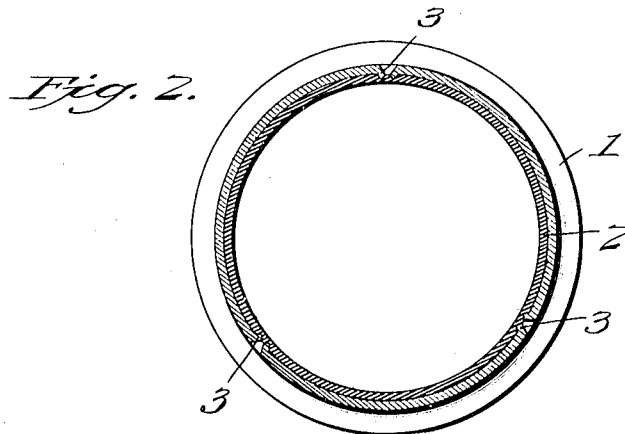
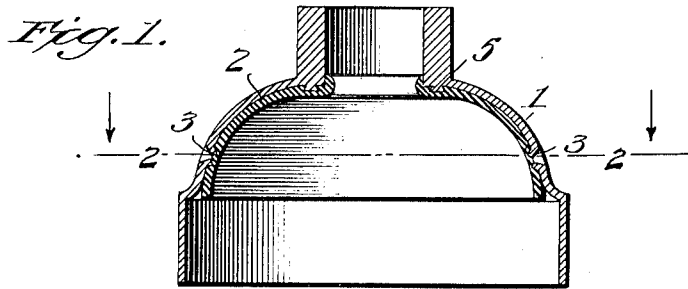


E. H. FREEMAN.
 INSULATING LINING FOR ELECTRICAL LAMP SOCKETS.
 APPLICATION FILED JUNE 21, 1911.

1,020,036.

Patented Mar. 12, 1912.



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UNITED STATES PATENT OFFICE.

EDGAR H. FREEMAN, OF TRENTON, NEW JERSEY.

INSULATING-LINING FOR ELECTRICAL LAMP-SOCKETS.

1,020,036.

Specification of Letters Patent.

Patented Mar. 12, 1912.

Application filed June 21, 1911. Serial No. 634,593.

To all whom it may concern:

Be it known that I, EDGAR H. FREEMAN, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Insulating-Linings for Electrical Lamp-Sockets, of which the following is a specification.

This invention relates to the subject of casings for electrical lamp sockets, and has particularly in view an improved means for fitting the cap of the socket casing with a permanent insulating lining that will effectually and satisfactorily fulfil all of the requirements of the National Board of Fire Underwriters.

Heretofore various expedients have been resorted to for the purpose of securing in place what is known as the cap lining for lamp sockets, which expedients have involved fastening projections or elements of various kinds formed integrally or otherwise with the sheet metal cap, or with the shell part of the casing. In some forms of lining fastenings the resiliency of the insulating lining has been depended upon to effect a locking action, while in other forms of construction effort has been made to permanently secure a rigid lining in place by suitable fastening elements.

In contradistinction to the known lining fastening means above referred to, the present invention contemplates the provision of what may be termed a molded insulating lining for a socket cap, that is to say, the application to the cap of any suitable insulating material that is shaped to lining form while in a plastic state either within or without the cap, and then caused to become set or hardened about and upon suitable anchoring projections within or upon the metal cap or the parts thereof. Any suitable insulating material capable of being handled in this way may be utilized in carrying out the invention in this manner.

Though susceptible to a wide range of structural modification, the essential features of the invention are well exemplified in the accompanying drawings, in which—

Figure 1 is an enlarged sectional view of the casing cap of a lamp socket equipped with a molded insulating lining. Fig. 2 is an enlarged cross sectional view thereof on the line 2—2 of Fig. 1. Fig. 3 is an en-

larged sectional view illustrating a practical method of punching the inwardly projecting fractured anchor-spurs.

Like references designate corresponding parts in the several figures of the drawings.

Referring to the embodiment of the invention suggested in the drawings, the numeral 1 designates the cap part of a metallic casing or shell for an electrical lamp socket, of any conventional form or design, and designed to be lined upon its interior with a lining or washer 2 of insulating material. This lining or washer when set to its final form, is of the dished type and of a size to register snugly within the correspondingly shaped cap. It is proposed to permanently lock this lining in place. This may be accomplished in various ways but preferably by means of a plurality of inwardly projecting integral anchor spurs 3 which are forcibly punched inwardly from the body material of the cap, by exterior means such as the pointed punches 4. The action of these punches is to fracture the spurs 3 so as to present ragged edges that become embedded in the molded material while in a plastic state. Additional securing means may be provided by a dovetailed anchoring rib or ribs 5 provided within the crown of the cap, and which rib or ribs likewise become embedded in the plastic material prior to its becoming set or hardened.

As indicated, any suitable insulating material may be employed to form the lining, that is, any insulating material such as sulfur or rubber compositions that may be molded in plastic form and afterward allowed to become hardened in a final form. In this connection it may be observed that the cap itself may be utilized as the mold for the plastic material to be painted, run, or pressed into place, or it is obvious that the lining may be separately molded in its proper form, then softened by heat and pressed into the cap over the anchors and allowed to become set or hardened, and thus becoming a permanent part of the socket cap.

I claim:

1. As an improvement in electrical lamp sockets, the combination of the socket casing having a sheet metal cap provided with introverted anchor elements, and a lining

of plastic insulating material permanently molded upon the inner surface of the cap and over said anchor elements.

2. As an improvement in electrical lamp sockets, the combination of the socket casing having a sheet metal cap provided with introverted fractured prongs, and a lining of plastic insulating material permanently

molded upon the inner surface of the cap and over and about said prongs. 10

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

EDGAR H. FREEMAN.

Witnesses:

EDNA C. SMITH,
JENNIE T. McCANN.