

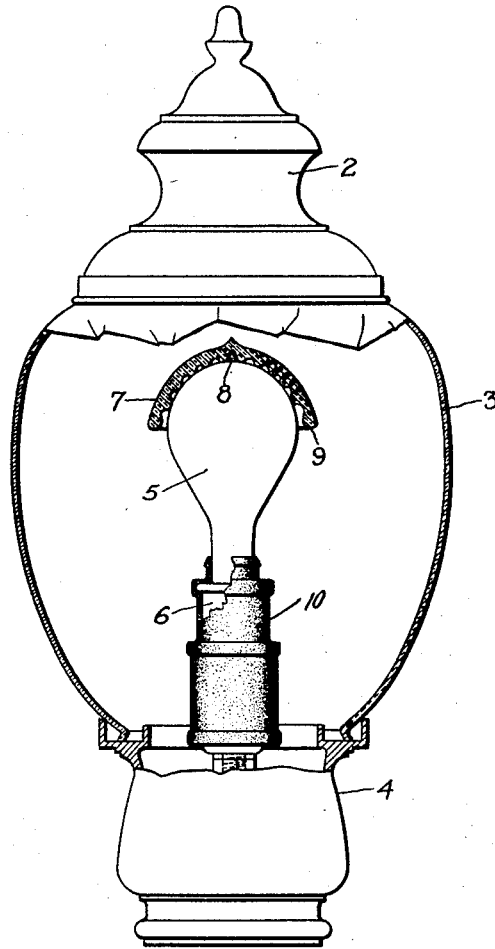
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H. E. BUTLER

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LAMP FIXTURE

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Inventor:
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UNITED STATES PATENT OFFICE

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LAMP FIXTURE

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My invention relates to lamp fixtures. More particularly it relates to lamp fixtures of the type that are especially adapted for use out in the open, such as along the streets. In lighting units of the type above indicated it is very often the case that incandescent lamps are used which are located in a position such that the base of the lamp is down and the bulb of the lamp is up. It is very often the case also that the canopy which is usually employed above the enclosing globe for such a lamp springs a leak and that drops of water drip through the canopy and fall upon the lamp while it is hot with the result that the lamp is sometimes cracked.

It is one of the objects of my invention to provide a shield for the lamp within the globe to protect the bulb against such drops of water.

The drawing shows an elevational view partly in section of the lighting unit embodying the present invention.

My invention will be more clearly understood from the following specification and claims, reference being had to the accompanying drawing in which there is shown a lighting unit of a common type provided with a canopy 2 and a globe 3, the latter being supported upon a base 4. Within the globe there is located the lamp 5 which is supported by a suitable socket 6. In order to protect the lamp 5 from drops of water that may find their way through the canopy 2, I have devised a hood 7 adapted to be placed over the bulb as indicated in the drawing. The hood may be made of any suitable material, but preferably it may be made of glass, quartz or other suitable transparent substance. The hood is in the shape of a hollow dish and is located in an inverted position over the lamp as shown. At the central point on the inside of the hood I provide a pin or depression for receiving the tip element 8 of the lamp. This serves to lock the element 7 in position. In order to insure circulation of air the inside of the hood may be corrugated; preferably a series of corrugations parallel with the rim 9 of the hood may be provided, as well as a series of corrugations running at right angles thereto.

It sometimes may be desirable to have the outside of the hood similarly provided with corrugations in order to assist in radiating the heat generated by the lamp. On the underside the hood is provided with corrugations which rest directly on the bulb. The marginal region of the hood, however, that is, the region in proximity of the rim, stands out from the globe and is free from any structure interconnecting the bulb and the hood. The object of this arrangement is to avoid any structure that will conduct, or tend to conduct, water from the outside of the hood to the globe.

For the purpose of protecting the lamp socket and any equipment mounted below the lamp socket I provide a shield 10 which may be made of rubber or other waterproof material. This shield may be slipped over the socket 6 and over the series cutout box below the socket before the lamp 5 is screwed in position. After the shield 10 is in position the base of the lamp 5 may be forced through the mouth of the shield and screwed into place. The mouth of the shield may be made so as to stretch sufficiently to allow the base and neck of the lamp to pass through and to snugly encircle the neck of the lamp so as to prevent any water from passing through. This insulating shield may be made of rubber similar to that used for making inner tubes for automobile tires.

It will be seen, therefore, that I provide effective means for protecting the lamps from being cracked by dripping water. Quite a large percentage of the lamps are broken during each season and the device therefore insures economy in maintenance.

It will also be seen that I provide means for effectively shielding also the lamp socket and the equipment below the lamp socket.

It will be understood that while I have elected to illustrate my invention in connection with the specific structure of the drawing, I do not wish to be restricted to the form shown, inasmuch as in view of the disclosure modifications and variations may readily be made without departing from the spirit of the invention or the scope of the claims contained herein.

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

1. In a highway lighting unit, in combination, an inclosure comprising a globe and a canopy supported thereon, an incandescent lamp located therein, a socket for the lamp located within said inclosure below the bulb of the lamp for holding the lamp in an upright position, and a hood of transparent material located on and directly supported by said bulb for protecting the bulb from water dripping into the inclosure, the space between the marginal region of the hood and the bulb being free from any structure whereby water falling upon the hood is permitted to drop freely from the rim of the hood at every point.

2. In a lighting device, an electric lamp having a bulb, a socket for the lamp, said socket being mounted to support said bulb in an upright position, a transparent hood for said bulb having a cavity on the underside thereof for receiving the end of the bulb, means in said cavity interlocking the hood with the bulb to hold the hood in place, portions of the hood structure in said cavity resting on said bulb, the rim of said hood all around the bulb standing out from the bulb, said device below the lowest point of contact between the hood and the bulb, being free from any structure connecting the hood and the bulb.

In witness whereof, I have hereunto set my hand this 25th day of January, 1928.

HENRY E. BUTLER.

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