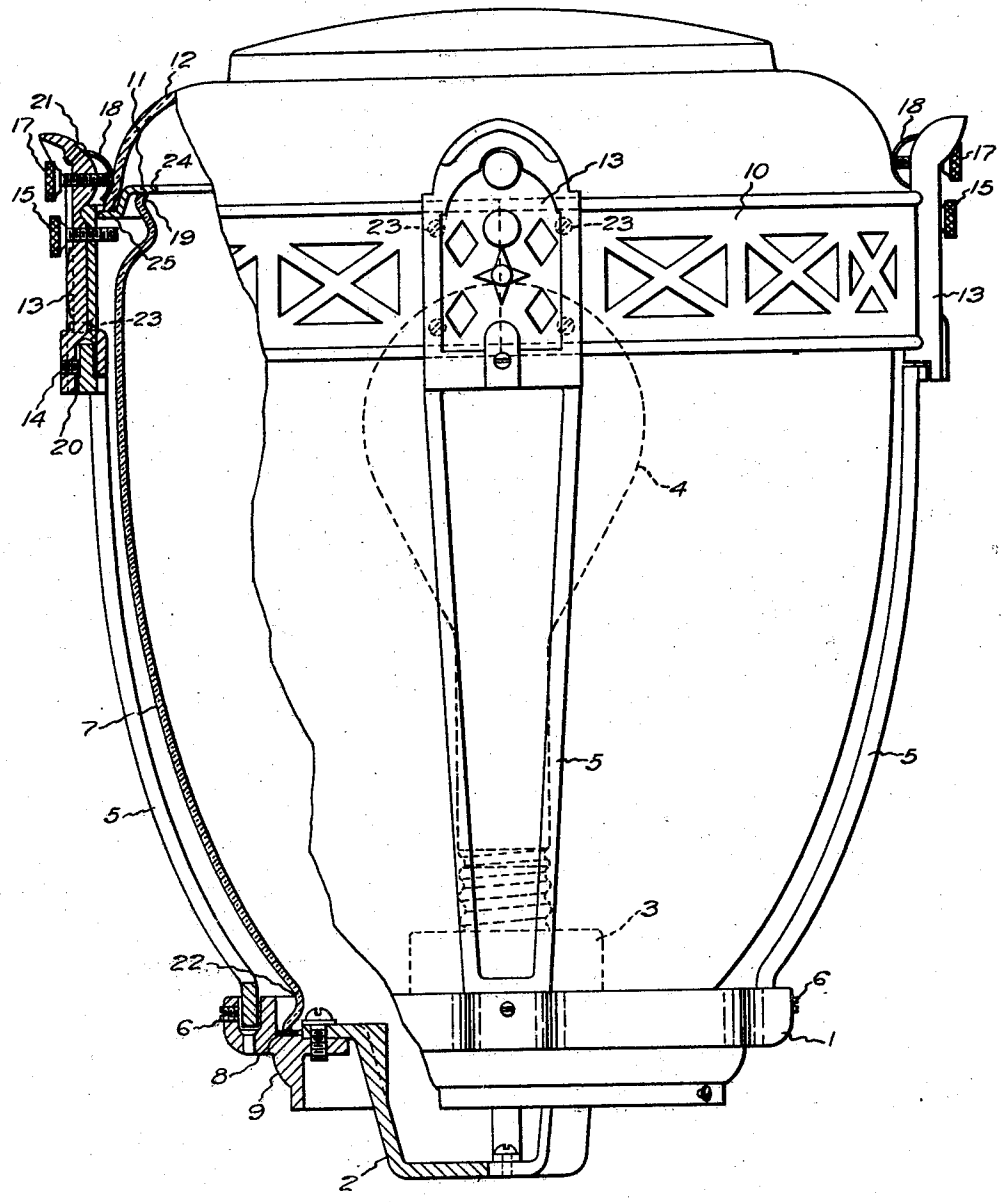
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HOLDER FOR LAMP HOUSINGS

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WITNESSES:
G. S. Neilson
Flournoy Corey.

INVENTOR
Ralph W. Erskine
BY
Wesley G. Carr
ATTORNEY

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UNITED STATES PATENT OFFICE

RALPH W. ERSKINE, OF MISHAWAKA, INDIANA, ASSIGNOR TO WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, A CORPORATION OF PENNSYLVANIA

HOLDER FOR LAMP HOUSINGS

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My invention has reference to lighting fixtures and particularly to holders for securing globes and canopies of lighting fixtures to standards.

An object of my invention is to provide a rugged holder which will prevent or greatly reduce breakage of the glass parts of the lighting fixture.

Another object of my invention is to provide a lighting fixture which shall be readily accessible for cleaning and in which the canopy and globe may be removed without disassembling any of the metal parts.

Another object of my invention is to provide a device in which no set screws or gripping devices are needed on the globe flanges in order to keep the globe in place.

Another object of my invention is to provide means for so combining the canopy with the globe and the globe with the base that they will shed water.

Further advantages of my invention will become apparent in the following description of the construction of the device which embodies it.

Lamp housings generally consist of a globe and a canopy. The globes are fastened to the base my means of set screws or other grips on the lower globe flange. The canopy is then attached to the globe by other holders or grips. It is apparent that a high wind or other sudden strain on the canopy will subject the globe to an excessive tensile stress at the neck of the globe just above the bottom flange.

My invention is intended to provide a structure such that the globe will be firmly seated on its base and will form a unitary structure which may be readily disassembled.

My invention may best be explained by reference to the accompanying drawings, the single figure of which is a view, partially in front elevation and partially in cross section, of a globe and globe holder embodying it.

A globe holder ring or base 1 is provided with a collar 9 which is adapted to be mounted in cooperative relation with the upper end of a lamp post. A socket support strap 2 is fastened to the base 1, and a lamp socket 3, in which a lamp 4 is mounted, is attached thereto. The holder ring is provided with a plurality of double side rods 5 which are adapted to cooperatively engage the holder ring around its periphery, and the rods are held in place by headless set screws 6. The side rods 5 severally comprise two legs which serve to impart strength and rigidity and are spaced apart sufficiently to interpose a minimum degree of obstruction to the light rays emanating from the lamp 4. A globe 7 is mounted on felt washers 8 in the base 1, inside of the upstruck members.

A metal ring 11 having a rim of S-shape, in cross section, is mounted on the upper flange 19 of the globe. The ring 11 is offset and provides a yielding flange 24 at its upper inner edge adapted to fit the upper flange 19 of the globe, and a shoulder 25 at its lower outer edge upon which the glass canopy 12 is mounted. As the outer edge of the ring is lower than the inner edge, the ring acts as a water shed to prevent moisture from entering the globe.

The globe 7 and the canopy 12 are clamped in place by means of a structure attached to the base 1. This structure or clamping device consists of the side rods 5, an ornamental band plate 13 and the ornamental band 10.

The ornamental band plates 13 are mounted on the side rods by inserting the side rod into an opening 20 therein and fastening them by headless set screws 14.

The ornamental band is composed of four segments, the ends of which abut each other directly under the ornamental band plate 13 and are secured thereto by means of screws 23.

A U-shape spring 18 is riveted, by means of a rivet 21, to the upper portion of the ornamental band plate, and the screw 17, which is threaded through the plate 13, engages the spring 18 in its central portion and forces one end of the spring against the canopy 12. The lower edge of the canopy is provided with a downwardly extending flange, and the pressure of the screw and spring forces the canopy against the ring 11. Thus, the pressure of the ring 11 is transmitted to the upper flange 19 of the globe, and the lower flange 22 of the globe is forced against the felt washer

8 and the base 1 to constitute a water-tight joint.

Screws 15 are threaded through the ornamental band plates and project under the ring 11. The purpose of the screws 15 is to prevent falling of the ring 11 and canopy 12 in case of breakage of the globe 7. By loosening the screws 17 and 15, the globe and canopy may be easily removed for cleaning. It is, therefore, unnecessary, when cleaning the globe, to disassemble any of the metal parts of the lighting unit.

Thus, the canopy and globe are held in place by means of a clamp that engages the top, rather than the bottom, flange of the globe. Therefore, all tensile stresses occur in the metal members and only compressive stresses occur in the glass members, with the result that breakage of the globe and canopy is greatly reduced. Since the spring 18 resiliently engages the canopy 12, breakage because of expansion and contraction of the glassware is greatly reduced. Furthermore, the disposition of spring 18 and the ring 11 with respect to each other provides a yielding holder which permits axial adjustment of the globe and canopy.

The globe and canopy are secured in place by the yielding holder consisting of the screws 17 bearing on the canopy 12 through the medium of spring 18. The screws 15 project through the band plate only far enough to engage the ring 11 in case of breakage of the globe 7, but they are not in contact with the globe, and, therefore, the disposition of screws 17 and 15 and the ring 11 is such that the globe and canopy are held securely but yieldingly and in such manner that dismounting may be easily and quickly accomplished. As the screws do not touch the glass and as no unyielding pressure is brought to bear against the glass portions of the unit, breakage is further reduced.

The joint between canopy and globe is rendered rain-proof as is also the joint between globe and base, as has been previously explained.

Although I have described a specific embodiment of my invention, I do not wish to be limited thereto as modifications thereof may be made without departing from the spirit and scope of my invention as defined in the appended claims.

I claim as my invention:

1. A lamp housing comprising a globe, a canopy disposed on the globe, a base for supporting the globe, a plurality of uprights on the base, means on said uprights for engaging the canopy, said means comprising a plate and a spring attached to the said plate for yieldingly retaining said canopy and globe in position.

2. A lamp housing comprising a globe, a canopy disposed on the globe, a base for supporting the globe, a plurality of uprights on the base, and means on said uprights for engaging the canopy, said means comprising a plate and an ornamental band mounted thereon and a spring attached to the said plate for yieldingly pressing the canopy and globe, as a unit, against the base.

3. A lamp housing comprising a globe, a canopy disposed on the globe, a base for supporting the globe, a plurality of uprights on the base, a band plate on each of said uprights, a curved spring on the inner face of said plate, a thumb screw threaded through said plate for engaging said curved spring, whereby said spring is caused to resiliently engage said canopy, and means for spacing said band plates about the globe.

4. A lamp housing comprising a globe, a canopy disposed on the globe, a base for supporting the globe, a plurality of uprights on the base, means on said uprights for engaging the canopy and for retaining said canopy and globe in position, and a plurality of ornamental band sections attached to the canopy-engaging means for spacing them about the globe.

5. A lamp housing comprising a globe, a canopy disposed on the globe, a base for supporting the globe, a plurality of uprights on the base plates on said uprights provided with means for engaging the canopy and for retaining said canopy and globe in position, and a plurality of ornamental band sections for spacing said canopy engaging means about the globe, and means on said plates for attaching said sections thereto.

6. A lamp housing including a globe, a canopy, a base for supporting the globe and canopy, a plurality of uprights disposed around the globe and having removable engagement with the base, plates disposed on the upper ends of the uprights, and a plurality of ornamental band sections detachably connected to the plates to surround the upper end of the globe.

7. A lamp housing including a globe, a canopy, a base for supporting the globe and canopy, a plurality of uprights severally having spaced-apart legs and disposed around the globe, and plates and an ornamental band disposed on the upper ends of the uprights to surround the upper end of the globe.

In testimony whereof, I have hereunto subscribed my name this third day of March, 1927.

RALPH W. ERSKINE.