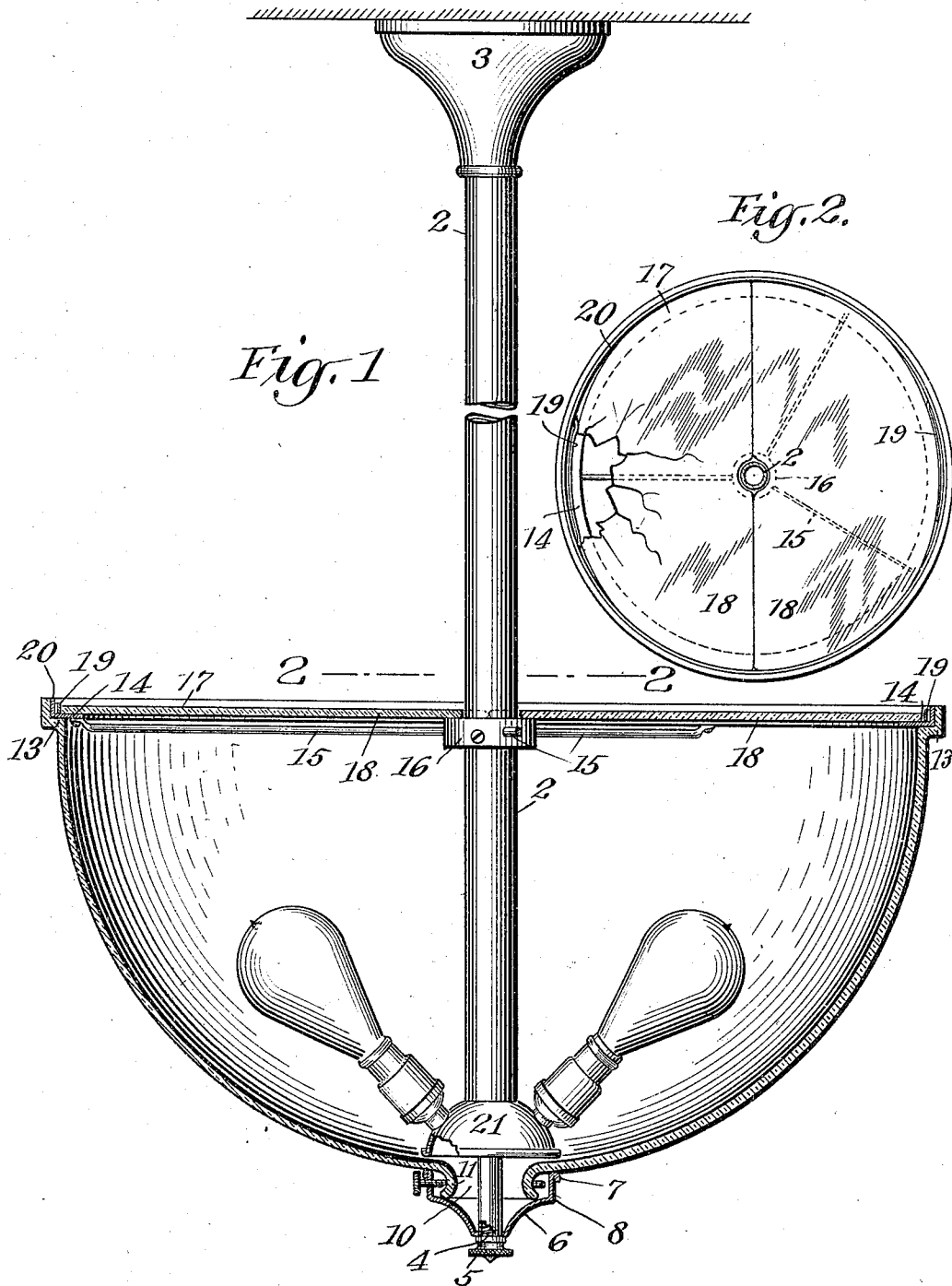


C. T. STAINES.
LIGHTING FIXTURE.
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1,043,266.

Patented Nov. 5, 1912.



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LIGHTING-FIXTURE.

1,043,266.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES T. STAINES, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Lighting-Fixtures, of which the following is a specification.

This invention relates to lighting fixtures, the object of the invention being to provide a semi-indirect lighting fixture simple in construction, practical in use, and in which the parts are so constructed and organized that the several parts making up the fixture are readily detachable to permit easy access to the interior of the globe and in which also the globe will be so supported that danger of breakage thereof by reason of the expansion from the heat is avoided, and in which also the globe is rendered dust proof.

In the drawings accompanying and forming part of this specification, Figure 1 is a partly sectional view illustrating the present improvement; and Fig. 2 is a view taken in line 2—2, Fig. 1, looking downward.

Similar characters of reference indicate corresponding parts in the figures of the drawings.

In the present improvement the fixture comprises a tube or hollow rod 2 supported in any suitable manner, as from the ceiling, and having the usual canopy 3. Carried by this rod, at its lower end, is a threaded member 4 for the reception of a knurled nut 5 which holds in position a globe carrying member, shown in the shape of a cup or canopy 6, the upper edge of which is preferably enlarged, as by being bent upon itself as at 7 to engage the globe, this cup having its upper flange 8 provided with threaded openings for the reception of threaded fastening screws for securing the globe in position. The globe in the present instance, which may be made of any desired character of glass, but preferably opaque, is shown hemispherical, having an opening 10 at its underside for the passage of the stem or tube by means of which the globe is suspended or supported. In the present instance the apex of the globe is formed with a bent collar 11 adapted to fit within the flange of the supporting cup 6. The upper edge of the globe is provided with an offset or rabbet 13 thereby forming a circular rabbeted flanged edge for the reception of a flanged metal ring 14 adapted to fit and rest

therein. This ring is supported by any desired number of arms or rods 15, the inner ends of which are carried by a collar 16 fitting the tube 2 and secured thereto by suitable set screws. This ring supports the multi-piece glass cover 17 for the globe, which in the present instance comprises two semicircular pieces of glass 18 recessed adjacent to the tube or stem 2 to fit around the same and maintained in engagement therewith by means of one or more springs 19 for each semicircular glass piece, these springs being located between the outer edges of the glass and the flanged end 20 of the metal ring.

Supported at the lower end of the stem 2 is a cone-shaped member or canopy 21 for carrying the lamp sockets, and within this canopy the usual hickey, not shown, is located. The lower edge of this cone-shaped member or canopy 21 is spaced above the inner walls of the globe so that when the globe is supported in position by its supporting cup the globe cannot bind against this inner canopy, so that provision is made for the expansion of the glass and thus eliminating chances of breakage.

From the foregoing it will be observed that by removing the supporting cup the globe may be readily removed from the fixture without interfering with or affecting the position of the glass cover or of the supporting means therefor, so that the electric light fixtures are readily accessible by the removal of simply the dome or globe for repair or inspection of such fixtures, without taking down the entire fixture or removing anything but the globe and its supporting cup. Furthermore, it will also be observed that if it is desired to have access to the dome or globe this can be readily obtained without even removing it, by simply removing the glass cover or either part thereof, and furthermore, that this glass cover completely closes the dome or globe in such a manner that the same is dust proof, so that the necessity of cleaning the interior of the globe to remove particles of dirt and dust which frequently accumulate in open globes and domes and materially interfere with the light is thus avoided.

In practice the glass cover will preferably be made of clear glass so as not to interfere with the passage of the light therethrough. It will also be observed that the glass cover

supporting ring is adjustable on the stem or tube 2 so as to bring it in proper position to fit within the recessed flange of the dome or globe as this may vary in manufacture. It will thus be observed that the globe or dome of semispherical form is removable from the lower end of the stem quickly and is rigidly supported at the lower end of such stem when in position, without liability of its breaking by reason of expansion, and that such dome is dust proof by reason of the removable cover which is adjustably carried on the stem by a ring provided for this purpose, and which ring and the upper edge of the globe conform in shape one to the other, the edge of the globe or dome being provided with a recessed flange for such ring, and that the removal of the dome can be effected without interfering with the position of the cover, and vice versa. The provision of the metal ring for holding the cover also tends to keep the globe true and prevents vibration and breakage thereof without placing any strain thereon. This ring also, by reason of its location between the edge of the globe and the surface of the glass cover, serves to prevent breakage of one or the other when assembled as well as preventing noise and rattle. In the present improvement it will also be observed that the dome or globe is so formed at its upper edge that the metal ring and the glass cover are entirely concealed when the fixture is in position.

From the foregoing it will be observed that the present fixture provides what is known as a semi-indirect lighting fixture for hospitals and other places where a subdued light is desired.

I claim as my invention:

1. A lighting fixture comprising a supporting stem, a detachable globe carried thereby, and means carried by the stem for supporting a removable multi-piece cover, whereby either the globe or the cover is detachable without interfering with the position of the other member.

2. A lighting fixture comprising a supporting stem, a globe carried thereby and having at its upper edge an interiorly recessed flange, and a metal ring supported by the stem and fitting within said flange.

3. A lighting fixture comprising a supporting stem, a globe carried thereby and having at its upper edge an interiorly recessed flange, a metal ring supported by the stem and fitting within said flange, and a transparent cover carried by said ring.

4. A lighting fixture comprising a supporting stem, a globe carried thereby and having at its upper edge an interiorly recessed flange, and a metal ring adjustably supported by the stem and fitting within said flange.

5. A lighting fixture comprising a sup-

porting stem, a globe carried thereby and having at its upper edge an interiorly recessed flange, a metal ring adjustably supported by the stem and fitting within said flange, and a glass cover carried by said ring.

6. A lighting fixture comprising a supporting stem, a detachable globe carried thereby, detachable means carried by the stem for supporting said globe from its underside, said globe having an interiorly recessed flange at its upper edge, a metal ring adjustably secured to said stem and fitting the recess of said globe, and a detachable glass cover carried by said ring.

7. A lighting fixture comprising a supporting stem, a detachable globe carried thereby, detachable means carried by the stem for supporting said globe from its underside, said globe having an interiorly recessed flange at its upper edge, a flanged metal ring adjustably secured to said stem and fitting the recess of said globe, and a detachable glass cover carried by said ring.

8. A lighting fixture comprising a supporting stem, a detachable globe carried thereby, detachable means carried by the stem for supporting said globe from its underside, said globe having an interiorly recessed flange at its upper edge, a flanged metal ring adjustably secured to said stem and fitting the recess of said globe, a detachable glass cover carried by said ring, and means between the flange of the ring and the edge of the cover for holding the same in position.

9. A lighting fixture comprising a supporting stem, a detachable globe carried thereby, detachable means carried by the stem for supporting said globe from its underside, said globe having an interiorly recessed flange at its upper edge, a flanged metal ring adjustably secured to said stem and fitting the recess of said globe, a detachable glass cover carried by said ring, and means between the flange of the ring and the edge of the cover for holding the same in position, said means comprising springs.

10. A lighting fixture comprising a supporting stem having below its point of support a socket supporting member and below the same a detachable globe supporting member, and a globe supported thereby and spaced apart from the socket supporting member thereby to permit the expansion of the globe.

11. A lighting fixture comprising a supporting stem having below its point of support a socket supporting member and below the same a detachable globe supporting member, a globe supported thereby and spaced apart from the socket supporting member thereby to permit the expansion of the globe, said globe having a flanged re-

cess at its upper edge, and means supported by the stem for supporting a removable glass cover for the globe.

12. A lighting fixture comprising a supporting stem, a globe detachably supported thereby at its apex end, and a removable glass cover for said globe supported by the stem whereby either the globe or the cover is detachable without interfering with the position of the other member.

13. A lighting fixture comprising a supporting stem, a globe detachably supported thereby, socket supporting means carried by the stem within said globe and spaced apart from the globe, and a detachable cover for the globe supported by the stem for rendering the interior of the globe dust proof, the construction being such that either the globe or the cover may be removed without detaching the other.

14. A lighting fixture comprising a supporting stem, a detachable globe supported thereby and having a recessed upper edge, a detachable glass cover for rendering the interior of the globe dust proof, and means carried by the stem for supporting said cover and including a part fitting between the cover and the edge of the globe.

15. A lighting fixture comprising a supporting stem, a detachable globe supported thereby and having a recessed upper edge, a detachable glass cover for rendering the interior of the globe dust proof, and means carried by the stem for supporting said cover and including a part fitting between the cover and the edge of the globe, said globe having a recessed upper edge for re-

ceiving such part and concealing the same when the fixture is in position.

16. A lighting fixture comprising a supporting stem, a socket supporting canopy carried thereby, a detachable globe supporting cup secured to said stem below said canopy, a globe detachably supported by said cup with its inner wall spaced from the socket supporting canopy, said globe having a recessed flanged upper edge, a flanged metal ring fitting within said recess of the globe, rods adjustably connecting said ring with the stem, and a multi-piece removable glass cover fitting around said stem and supported by said ring.

17. A lighting fixture comprising a supporting stem, a socket supporting canopy carried thereby, a detachable globe supporting cup secured to said stem below said canopy, a globe detachably supported by said cup with its inner wall spaced from the socket supporting canopy, said globe having a recessed flanged upper edge, a flanged metal ring fitting within said recess of the globe, rods adjustably connecting said ring with the stem, a multi-piece removable glass cover fitting around said stem and supported by said ring, and springs carried by the ring for engaging the edges of the glass cover to hold the same in engagement with the stem.

Signed at Brooklyn, N. Y. this 2 day of July 1912.

CHAS. T. STAINES.

Witnesses:

RALPH R. WARDELL,
D. IRVING WEED.