Jan. 26, 1932. D. G. SAAF 1,842,691

FIXTURE SUPPORT

Filed Jan. 31, 1931 2 Sheets-Sheet 1

Fig. 1.

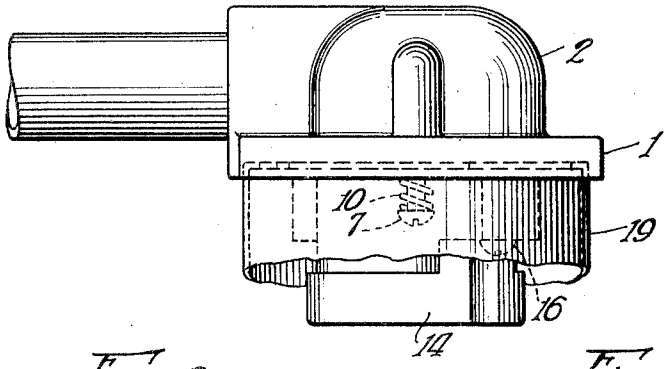


Fig. 2.

Fig. 3.

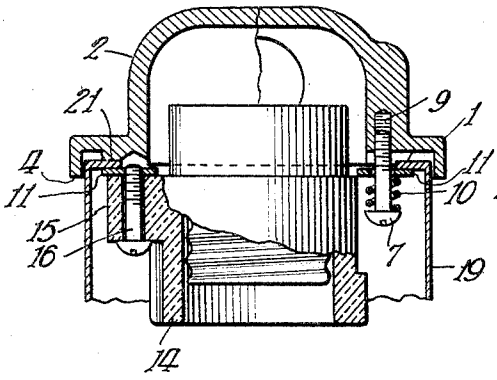


Fig. 4.

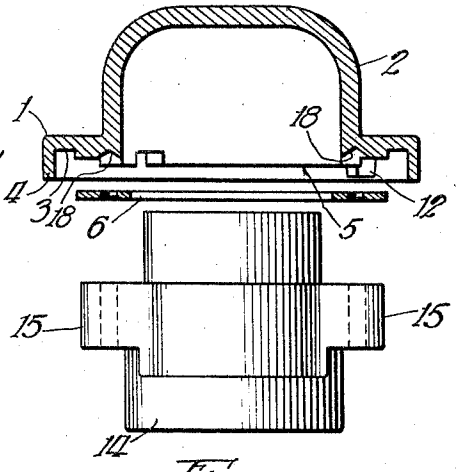
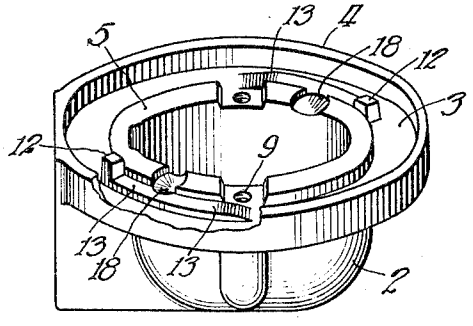
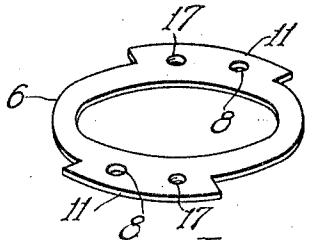


Fig. 5.





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Fig. 6.

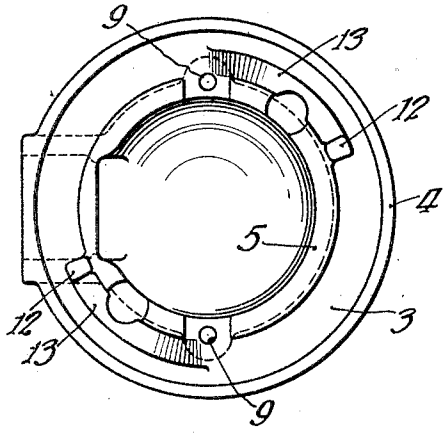


Fig. 7.

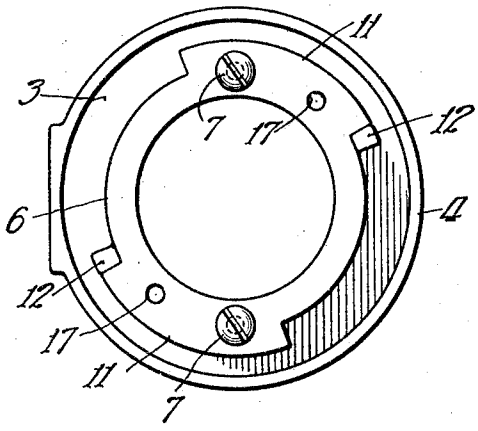


Fig. 8.

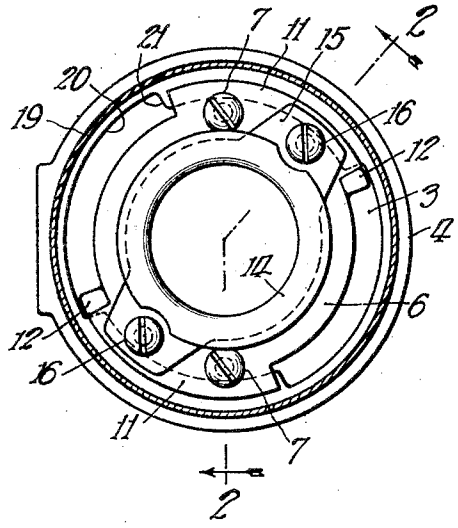
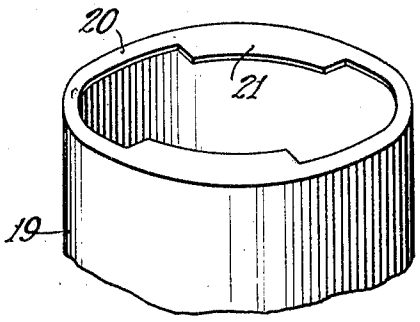


Fig. 9



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UNITED STATES PATENT OFFICE

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FIXTURE SUPPORT

Application filed January 31, 1931. Serial No. 512,619.

This invention relates to improvements in fixture supports and more particularly to a combined socket and shade holder for electric lamps.

It is an object of this invention to provide a support which will not only act as a support for the socket of an electric lamp but also provide means for detachably securing a lamp shade as well.

With this and other objects in view reference is made to the accompanying sheets of drawings, which illustrate a preferred form of this invention, with the understanding that minor detail changes may be made without departing from the scope thereof.

In the drawings—

Figure 1 is a view in side elevation, with parts broken away, illustrating one application of this invention;

Figure 2 is a view partly in central vertical transverse section taken through Figure 1, more clearly indicated by the line 2—2 Figure 8, and partly in side elevation;

Figure 3 is an expanded view of the parts illustrated in Figure 2;

Figure 4 is a perspective view of the fixture support base in inverted position from that shown in Figure 1;

Figure 5 is a detail perspective view of the socket carrying and shade engaging plate;

Figure 6 is a top plan view of Figure 4;

Figure 7 is a view similar to Figure 6 illustrating the socket carrying and shade supporting plate in position thereon;

Figure 8 is a view similar to Figures 6 and 7 illustrating the assembled fixture support with shade and socket in place; and

Figure 9 is a fragmentary perspective view of the shade adapted to be attached to the support and illustrating the means upon the shade adapted for attachment thereto.

In the embodiment of this invention as illustrated, the fixture support comprises a base having a cylindrical portion 1 provided with a concentric socket receiving opening and an integral housing 2 extending thereabove. The walls of the housing are extended to receive a hollow rod or other means of positioning the support, as in the manner shown in Figure 1. The exterior flat surface of the cylindrical portion 1 is provided with an annular groove 3 forming circumferential flanges 4 and 5 on each side thereof, the inner flange 5 being of greater width but of less height than the outer flange 4.

An annular plate 6 corresponding in dimensions to the inner flange 5 is resiliently secured thereto, preferably by the two screws 7 passing through diametrically arranged apertures 8 provided therefor to engage screw threaded apertures 9 provided in the base and housing, with coil springs 10 arranged about the screws 7 between their heads and the plate 6. The plate 6 is provided with oppositely disposed arcuate projections 11 extending over the groove 3 substantially half way to the flange 4. Two diametrical posts 12 are formed integral with the base and flange 5 which will be engaged by diametrically opposite edges of the arcuate portions 11 when the plate 6 is secured in position. The bottom of the annular groove 3 under the arcuate projections 11 is sloped upwardly to form inclines 13 to each post 12.

An electric lamp socket of commercial type having oppositely disposed perforated attaching ears 15 is secured to the plate 6 by screws 16 passed through the perforations and engaging the screw threaded apertures 17 provided therefor in the plate 6 and in order that the bottom of the screws do not strike the base, on account of irregularities in the formation of the ears 15, the flange 5 is provided with depressions 18.

The shade to be employed with this support is provided with a cylindrical portion 19 having an inturned flange 20 at its upper end provided with oppositely disposed arcuate extensions 21 so proportioned that the shade may be received within the annular groove 3 and upon rotation the extensions 21 will pass under the arcuate projections 11 of the plate 6 and ride upon the inclines 13 until the edges of the arcuate extensions 21 engage the posts 12. The inclines 13 are of such a degree that the portions of the shade extending therein will be firmly engaged by the yieldingly secured plate 6.

In electric fixtures of this type it is customary to pass the wires through the hollow

rod and complete the connections to the socket within the housing and it is for this reason that the wires and connections are not so shown.

It is obvious that a fixture constructed and assembled as shown and described above provides means for the ready attachment or removal of both socket and the shade or either, as the case may be. It is also seen that the removal of the socket in no way interferes with the means for holding the shade if it is desired to attach a shade to a socketless fixture. The posts 12 provide means for properly locating the plate 6 when assembling the socket, so that the screw 7 may be readily inserted in the screw threaded apertures 9. The post 12 possesses the additional function as acting as a stop when the shade is inserted within the annular groove and rotated for engagement with the plate. The provision of the inclines 13 upon the base under the arcuate projections 11 of the plate and the provision of the springs 10 about the screws 7 not only is a means for compensating for irregularities in the thickness of the flanges 21 of the shade, but also provides a means which under all conditions will allow the firm clamping of the shade in position. It is readily seen that by this construction a socket which becomes defective may be readily removed and replaced without detaching the shade holding means from the base. It is also obvious that the fixture support may enter the housing at the angle shown or provision may be made to have the fixture support engage the housing at any desired angle without departing from the scope of the invention.

What I claim is:

1. A combined shade holder and socket support for electric lamps including a base, a shade holding and socket supporting plate carried thereby, means upon the plate coacting with inclined means upon the base to engage and hold the shade thereon, a lamp socket, and detachable means for engaging and supporting the socket upon the plate.

2. A combined shade holder and socket support for electric lamps including a base, a shade holding and socket supporting plate carried thereby including yielding means to press the plate against the base, means upon the plate coacting with means upon the base to engage and hold the shade in clamped relation thereon, a lamp socket, and detachable means for engaging and supporting the socket upon the plate.

3. A combined shade holder and socket support for electric lamps including a base having a cylindrical perforated portion terminating in a flat surface with an annular groove therein forming flanges on each side, an annular shade holding and socket supporting plate carried upon the inner flange, a socket and means to attach the socket to the annular plate, and means upon the plate to engage a shade adapted to be received within the annular groove and hold it against the base.

4. A combined shade holder and socket support for electric lamps including a base, a shade holding and socket supporting plate carried thereby, means upon the plate coacting with an inclined portion of the base to engage and hold the shade thereon, a lamp socket, and detachable means for engaging the socket to said plate.

5. A combined shade holder and socket support for electric lamps including a base, a shade holding and socket supporting plate yieldingly carried thereby, means upon the plate coacting with an inclined portion of the base to yieldingly engage and hold the shade thereon, a lamp socket, and detachable means for engaging the socket to said plate.

6. A combined shade holder and socket support for electric lamps including a base having a cylindrical perforated portion terminating in a flat surface with an annular groove therein forming flanges on each side, an annular shade holding and socket supporting plate carried upon the inner flange, a socket and means to attach the socket to the annular plate, and means upon the plate to engage a shade adapted to be received within the annular groove and hold it against the base including oppositely disposed arcuate extensions from said plate projecting over a portion of the annular groove.

7. A combined shade holder and socket support for electric lamps including a base having a cylindrical perforated portion terminating in a flat surface with an annular groove therein forming flanges on each side, an annular shade holding and socket supporting plate carried upon the inner flange, a socket carried thereon and means upon the plate to engage a shade adapted to be received within the annular groove and hold it against the base including oppositely disposed arcuate extensions from said plate projecting over a portion of the annular groove, and integral stops upon the base to engage the said plate extensions.

8. A combined shade holder and socket support for electric lamps including a base having a cylindrical perforated portion terminating in a flat surface with an annular groove therein forming flanges on each side, an annular shade holding and socket supporting plate yieldingly carried upon the inner flange, a socket and means to attach the socket to the annular plate, and means upon the plate to engage a shade adapted to be received within the annular groove and hold it against the base including an integral incline upon the base.

9. A combined shade holder and socket support for electric lamps including a base having a cylindrical perforated portion ter-

minating in a flat surface with an annular groove therein forming flanges on each side, an annular shade holding and socket supporting plate carried upon the inner flange, a socket and means to attach the socket to the annular plate, and means upon the plate to engage a shade adapted to be received within the annular groove and hold it against the base including oppositely disposed arcuate extensions from said plate projecting over a portion of the annular groove and an integral inclined portion upon the base extending under said plate extensions.

10. A combined shade holder and socket support for electric lamps including a base having a cylindrical perforated portion terminating in a flat surface with an annular groove therein forming flanges on each side, an annular shade holding and socket supporting plate carried upon the inner flange, a socket and means to attach the socket to the annular plate, and means upon the plate to engage a shade adapted to be received within the annular groove and hold it against the base including oppositely disposed arcuate extensions from said plate projecting over a portion of the annular groove and an integral inclined portion upon the base extending under said plate extensions and terminating in a stop extending above said plate and adapted to be engaged by the extensions thereof.

11. A combined shadeholder and socket support for electric lamps including a base, a plate carried thereby, a cooperating inclined portion between the base and plate to engage and hold the shade thereon, and a lamp socket carried by said plate.

12. A combined shadeholder and socket support for electric lamps including a base, a plate yieldingly carried by the base, a cooperating inclined portion between the base and plate to engage and hold the shade thereon, and a lamp socket carried by said plate.

13. A combined shadeholder and socket support for electric lamps including a base, a plate yieldingly carried thereby, means upon the plate coacting with means upon the base to engage and hold the shade in clamped relation thereon, and a lamp socket carried by said plate.

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