July 29, 1947. A. WILLENBACHER 2,424,908

LIGHTING FIXTURE

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Fig. 1.

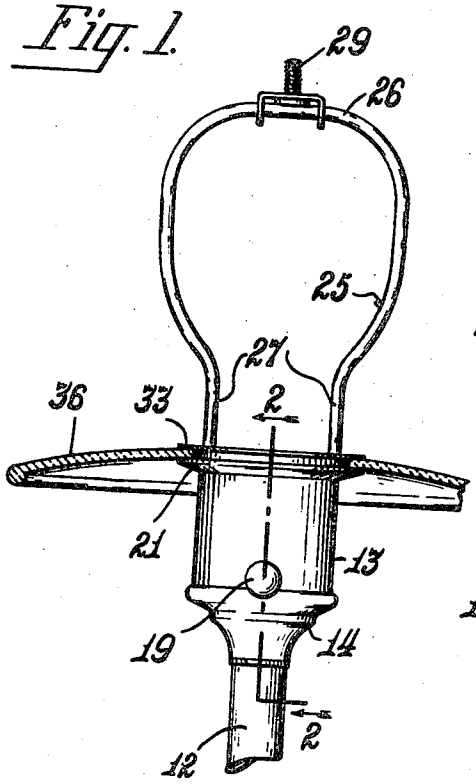


Fig. 2.

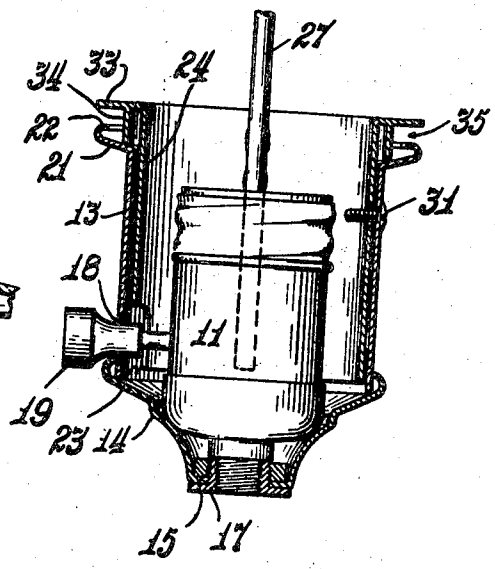
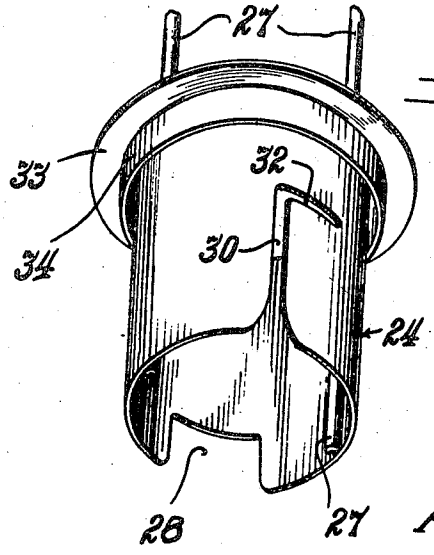


Fig. 3.



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LIGHTING FIXTURE

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3 Claims. (Cl. 240—148)

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The invention relates to improvements in lighting fixtures and is more particularly concerned with the construction and manner of mounting a harp on a lamp fixture.

Lamps such as table lamps having a single light bulb mounted vertically on the upper end of a standard usually are provided with a harp which embraces the light bulb so as to support a lamp shade arranged thereover. Conventional harp construction is such that the cost of manufacture frequently is excessive and further it often is extremely difficult, if not frequently impossible, to equip such a lighting fixture with an easily replaceable but firmly held disk arranged to diffuse and deflect light rays upwardly through the shade. It is, therefore, an object of the present invention to provide a lamp fixture with novelly constructed means adapted to facilitate ready mounting of such a disk.

Another object of the invention is to provide a lamp fixture with a harp construction that is not expensive to manufacture but which is easy to assemble and highly efficient in use.

Another object is to provide a harp construction which may be easily and quickly mounted or dismounted and which, when mounted, may be firmly secured in place easily and quickly.

Other and further objects of the present invention will be apparent from the following description and claims and are illustrated in the accompanying drawing which illustrates a preferred embodiment and the principles thereof and which is considered to be the best mode contemplated for applying that principle. Other embodiments of the invention embodying the same or equivalent principles may be used and structural changes may be made as desired by those skilled in the art without departing from the spirit of the present invention and the purview of the appended claims.

In the drawings:

Fig. 1 is an elevational view of a part of a lighting fixture embodying features of the present invention and showing the deflecting disk in section.

Fig. 2 is a longitudinal sectional view of the lighting fixture taken substantially on line 2—2 of Fig. 1 and showing the lamp socket in elevation.

Fig. 3 is a perspective view of the mounting sleeve for the harp.

The invention is particularly adapted to be embodied in the construction of lighting fixtures such as, for example, table and dresser lamps, wherein a lamp socket 11 is carried on the upper end of a vertical standard 12. The socket 11 is

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suitably concealed from view by being enclosed within an ornamental cover which in the present instance includes a substantially cylindrical side wall 13 and a bottom wall 14 firmly secured to the side wall and formed with an internal flange 15 to be fitted snugly about a bushing 17 normally employed to retain such a cover in place around the lamp socket. The cylindrical side wall 13 of said cover has an opening 18 through which the usual switch-knob 19 of the socket 11 may extend and its upper marginal edge is formed with an external annular flange 21 having its marginal periphery rolled upwardly and inwardly to provide a beaded finish as at 22.

The diameter of the cylindrical side wall 13 of the cover is substantially larger than the diameter of the lamp socket so as to provide a relatively wide annular space 23 therebetween. The space 23 is adapted to receive therein a sleeve 24 which constitutes the mounting base for a harp 25. As shown, the harp 25 is fashioned from a length of rod suitably bent substantially U-shaped to include a horizontally disposed medial portion 26 and a pair of downwardly extending leg portions 27. The leg portions 27 are adapted to extend into the sleeve 24 and be secured firmly thereto as by welding. The harp construction including the harp 25 and sleeve 24 is mounted upon the lighting fixture by initially telescoping the sleeve 24 endwise into the open upper end of the lamp socket cover, said sleeve having a cut out portion 28 adapting it to be positioned with its lower edge substantially in abutment with the bottom 14 of the cover without interfering with the operation of the switch-knob 19. A fitting 29 preferably is carried on the medial portion 26 of the harp 25 so as to provide a mounting for a lamp shade.

The sleeve is provided with an L-slot having its longitudinal leg portion 30 opening onto the bottom edge of said sleeve. The slot is adapted to receive an inwardly extending radial pin 31 secured firmly in the cylindrical side wall 13 of cover. After the sleeve has been moved endwise into its lowermost position within the cover, said sleeve is rotated sufficiently to carry the pin 31 into the circumferentially disposed portion 32 of the L-slot so as to prevent withdrawal of the sleeve without reverse rotation thereof.

The sleeve 24 has an external annular flange 33 on the end thereof extending outwardly of the cover and this flange carries an annulus 34 on its bottom face of a diameter substantially greater than the diameter of the sleeve. The annulus 34 is adapted to have its free lower edge brought

into abutment with the annular external flange 21 on the cover when the parts are assembled so as to thereby maintain a predetermined annular space or channel 35 between the flange 33 and the rolled peripheral margin 22 on the flange 21.

The channel 35 receives the inner marginal edge of a reflector disk 36 which may be mounted upon the fixture to deflect light rays upwardly through the lamp shade when the latter is in place on the harp 25. In mounting the disk it is slipped over the harp sleeve 24 prior to its endwise insertion into the lamp socket cover.

It should be evident at this time that applicant has provided a very convenient form of construction adapting the lighting fixture for ready assembly and disassembly whereby the harp and its mounting sleeve 24 may be easily and quickly disengaged and removed from the cover surrounding the lamp socket, and further; that in the event of breakage of the reflector disk 36 a new disk may be easily and quickly inserted and firmly locked in place thereon.

Applicant has, of course, illustrated and described a construction particularly adapted to the present disclosure of his invention and it should be apparent that the construction illustrated can embody a wide variety of modifications without departing from the spirit of the invention or scope of the appended claims.

I claim:

1. A harp construction comprising, in combination, a U-shaped frame, a sleeve within which the leg portions of said frame are secured, said frame being mounted in such manner that the greater portion thereof extends outwardly beyond an end of said sleeve, an external annular flange on the end of the sleeve from which the frame extends, and an annular ring on said flange surrounding and spaced from the wall of said sleeve.

2. A harp construction comprising, in combination, a U-shaped frame, a sleeve within which the leg portions of said frame are secured, said frame being mounted in such manner that the greater portion thereof extends outwardly beyond an end of said sleeve, an external annular flange on the end of the sleeve from which the frame extends, and an annular ring on said flange surrounding and spaced from the wall of said sleeve, said sleeve having complemental securing means in its cylindrical wall.

3. A harp construction comprising, in combination, a U-shaped frame, a sleeve within which the leg portions of said frame are secured, said frame being mounted in such manner that the greater portion thereof extends outwardly beyond an end of said sleeve, an external annular flange on the end of the sleeve from which the frame extends, and an annular ring on said flange surrounding and spaced from the wall of said sleeve, said sleeve having complemental securing means in its cylindrical wall, said sleeve having a bayonet slot in its wall to cooperate with means to secure the sleeve in place.

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