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2,658,990

MEANS FOR MOUNTING LAMP SHADES ON LAMP HARPS

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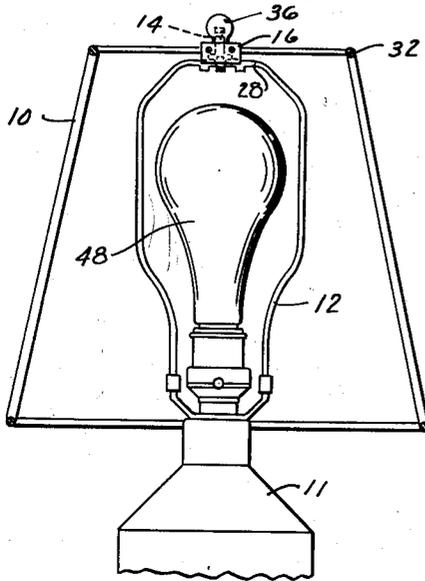


FIG. 1

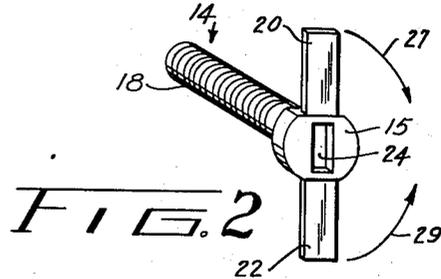


FIG. 2

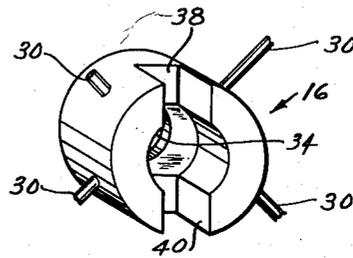


FIG. 3

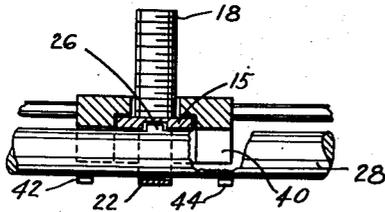


FIG. 4

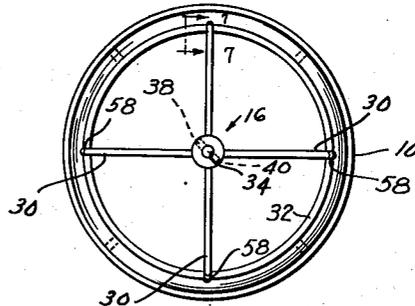


FIG. 6

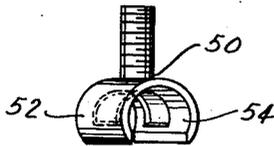


FIG. 5

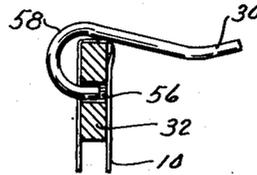


FIG. 7

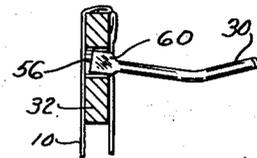


FIG. 8

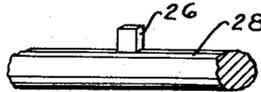


FIG. 4A

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MEANS FOR MOUNTING LAMP SHADES ON LAMP HARPS

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5 Claims. (Cl. 240-148)

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The present invention relates to a means for mounting a lampshade on the harp frame of a lamp.

In order to mount the shade on the wire frame of a lamp to cover the light thereof, frames referred to in the art as a "harp" were secured to the base of the lamp extending upwardly therefrom around the light and on which harp as shade was mounted.

It became desirable to tilt the lamp shade at an angle to a plane passing vertically through the light bulb of the lamp so that light therefrom could be selectively directed to different portions of the surface on which the lamp rested.

Swivel connections were designed for securing a lampshade on the harp frame, so that such operation of tilting could be performed.

Swivel connections heretofore proposed for this purpose were comparatively complex in structure and not simple for mounting on the harp of the lamp shade.

The present invention therefore contemplates the provision of a connection by means of which a lamp shade may be mounted on a lamp harp for swinging thereon into a selected position and which connection or mounting means is relatively simple and inexpensive to manufacture and which may be comparatively easily mounted on a harp frame.

The present invention still further contemplates the provision of such a connection so arranged and constructed that the lamp shade will not inadvertently be rotated around a vertical axis through the harp frame, a disadvantage inherent with all constructions heretofore proposed.

In lamp shades heretofore provided, the wire frame included a spider at the top thereof which was permanently secured on the upper wire member of the frame.

The present invention therefore contemplates the provision of a spider, which is detachably mounted on the upper wire of the lamp shade frame by means of which the shade is mounted on the harp frame through a connection, for example, the swivel connection, illustrated herein.

These, other and further objects and advantages of the present invention will be clear from the description which follows and the drawing appended thereto, in which

Fig. 1 is a front elevation of a lamp shade embodying my invention, the shade being in section to show the harp frame and connection;

Fig. 2 is a perspective view of one member of the connection;

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Fig. 3 is a perspective view of the other member or washer of the connection;

Fig. 4 is a partial cross section to an enlarged scale of my connection mounted on the cross wire of a harp frame;

Fig. 4A is a partial perspective of a harp frame cross wire used with an embodiment of my invention;

Fig. 5 is a perspective view of a modification of one of the members of my connection;

Fig. 6 is a top plan view of a lamp shade and spider frame member according to my invention;

Fig. 7 is a section on the line 7-7 of Fig. 6;

Fig. 8 is a partial section of a modification thereof.

Referring now to the drawing, the lamp base 11 has mounted thereon a conventional harp frame 12, which may be in the shape illustrated and on which the lamp shade 10 is seated by means of the connection which is the subject matter of this application.

The connection comprises two members, one of which 14 is illustrated in Fig. 2 and the other of which, the washer 16, is illustrated in Fig. 3.

Extending up from the body 15 of the member 14 is provided the screw or threaded stud element 18 and extending outwardly from the sides of the body 14, I provide the fingers 20 and 22.

Extending up from the undersurface of the body 15, I provide the recess 24 in which is received the teat 26 on the crosswire 28 (see Fig. 4) of the harp frame 12, for the purpose of which I shall hereinbelow describe.

In assembling the lamp shade 10 on the harp frame 12, the member 14 is placed on the cross wire 28 with the teat 26 seated in the recess 24 and the fingers 20 and 22 bent around the cross wire 28 along the arrows 27 and 29 to hold the member thereon.

The washer 16, from the sides of which extend the four spider arms 30, which, as will be seen, are mounted on the upper wire 32 of the frame of the lamp shade 10, is then seated in place on the member 14.

The washer 16 is provided through the center thereof with the opening 34 through which the threaded stud element 18 extends and on which stud element 18, the finial 36 is mounted to lock the lamp shade in place on the harp frame 12.

The sides of the washer 16 are cut out to form the side channels 38 and 40 through which the cross wire 28 extends.

Thus, the connection just described may be rotated in selected position on the cross wire 28 to tilt the lamp shade 10 into any desired posi-

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tion thereon, limited only by the teats on the cross wire.

On the underside of the cross wire 28, I provide for this latter purpose the spaced teats 42 and 44 which serve to limit the tilting movement of the connection on the cross wire 28 and with the teat 26 may additionally serve to prevent rotation of the spider and frame around a vertical axis through the stud element 18.

It will of course be understood that if desired the teats 42 and 44 may be omitted and only a single teat 26 provided (Fig. 4A), although even the teat 26, if desired, may also be omitted.

It will now be recognized that the connection may be rotated about the cross wire 28 thereon to selectively tilt the lamp shade 10 to direct light from the lamp 48 to desired parts of the surface on which the lamp is supported.

If desired, instead of the member 14 in which the fingers 20 and 22 are bent after the member is placed on the cross wire 28, a preformed threaded stud element 50 (see Fig. 5) having the curved fingers 52 and 54 may be provided and snapped in place on the cross wire of a harp frame. With the exception of the curved fingers 52 and 54, the stud element 50 is the same as that illustrated in Fig. 2 and functions in the same manner with a washer 16 to provide a connection for a lamp shade.

In my co-pending application Ser. No. 174,988, filed concurrently herein, now abandoned, for a lamp shade and method of making the same, the spider is to be secured on the lamp shade after the shade has been made.

The same type of spider which I shall now describe may be used in the lamp shade of that application.

The upper wire 32 is provided on its periphery with the four (which may be more or less depending on the number of spider arms 30) openings 56.

Three of the spider arms 30 are seated in their corresponding openings 56 and the hook-like element 58 of the fourth spider arm snapped in its corresponding opening 56 to lock the spider in place on the shade with the washer 16 on the cross wire 28 of the harp frame 12.

It will of course be understood that each spider arm 30 is preferably provided with a hook-like element 58, such as that illustrated in Fig. 7, and that the spider is of sufficient resiliency to permit it to be snapped on the lamp shade.

Referring to Fig. 8, instead of the hook-like element 58, a modification of the spider arm 30 may be used in which the end of the wire forming each arm 30 may be flattened to form the catch 60. As with the embodiment illustrated in Fig. 7, the catches 60 of three arms are inserted in the corresponding openings therefor and the catch on the fourth spider arm snapped into its corresponding opening to lock the spider and washer in place.

It will be understood that changes in the details of structures illustrated and described will occur to those skilled in the art without departing from the spirit and purpose of my invention.

Hence, it is my intention to cover by the claims appended hereto any modified or equivalent structure which may be reasonably included within their scope.

I claim:

1. In combination, a cross wire of a lamp harp frame, a teat extending upwardly from the upper surface of the cross wire, second spaced teats extending down from the under surface of the cross

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wire, a lamp shade and a connection for mounting the lamp shade on the cross wire, said connection comprising a first member and a second member, said first member having a body element, a threaded stud extending up from the said body element, fingers extending out from said body element and curved around the cross wire to lock or clamp said first member on said cross wire, said body having a recess receiving therein the first mentioned teat on the cross wire, spider arms extending out from the sides of said second member to the lamp shade to thereby carry the lamp shade on the second member, said second member having an opening extending through the center thereof, said threaded stud on the first member positioned in the said opening and extending out therefrom, said second member having channels through the sides thereof, said cross wire arranged in said channels whereby the second member is positioned on the cross wire, the second mentioned teats being engageable by the second member upon tilting the lamp shade on the said cross wire.

2. In combination, a lamp harp, a cross wire therein, a teat extending upwardly from the upper surface of the cross wire, a lamp shade and a means for mounting said shade on said harp, said mounting means comprising a first member and a second member, said first member having a body element, a stud extending up from the body element, fingers extending out from the body element and curved around the cross wire to lock said first member on the cross wire, said body member having a recess receiving said teat therein, spider arms extending from the sides of said second member to the lamp shade to support said lamp shade on said second member, said second member having an opening therethrough at the center thereof, said stud positioned in said opening to hold the first and second members together, said second member having channels through the sides thereof, said cross wire being positioned in the said channels to mount the second member on the cross wire of the harp.

3. In combination, the cross wire of a lamp harp, a lamp shade, a connection for mounting said lamp shade on said cross wire, said connection comprising a first member and a second member, said first member having a stud extending up therefrom, fingers extending out from the first member and curved around the cross wire to swivelly lock said first member on said cross wire, said second member having an opening therethrough, said stud positioned in said opening to mount said second member on said first member, said second member having channels through the sides thereof, said cross wire positioned in said channels to mount said second member on said cross wire, and means to mount said lamp shade on said second member.

4. In combination, a cross wire in a lamp harp, a lamp shade, means for mounting the lamp shade on said cross wire, a teat upstanding from said cross wire, said mounting means comprising a first member and a second member, said first member having a recess thereunder, a stud upstanding from said first member, curved arms extending outwardly from said first member and bent around the cross wire to mount said cross member thereon, said teat being received in said recess upon mounting the first member on the cross wire, said second member having an opening therethrough and channels extending through the sides thereof, said second member carrying

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the lamp shade, said stud received in said opening in the second member to connect the two members together, said cross wire positioned in said channels upon mounting the second member on the cross wire.

5. The combination of claim 4 and including spaced second mentioned teats on the cross wire engaged by the second member to limit movement thereof on the cross wire.

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