Feb. 4, 1930. C. T. BRADY 1,745,976

LAMP SHADE

Filed Oct. 15, 1928

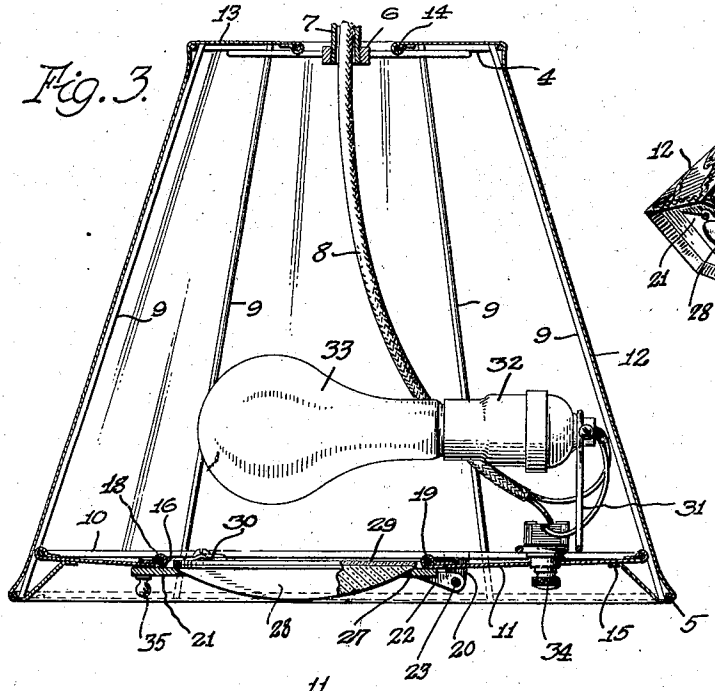


Fig. 3.

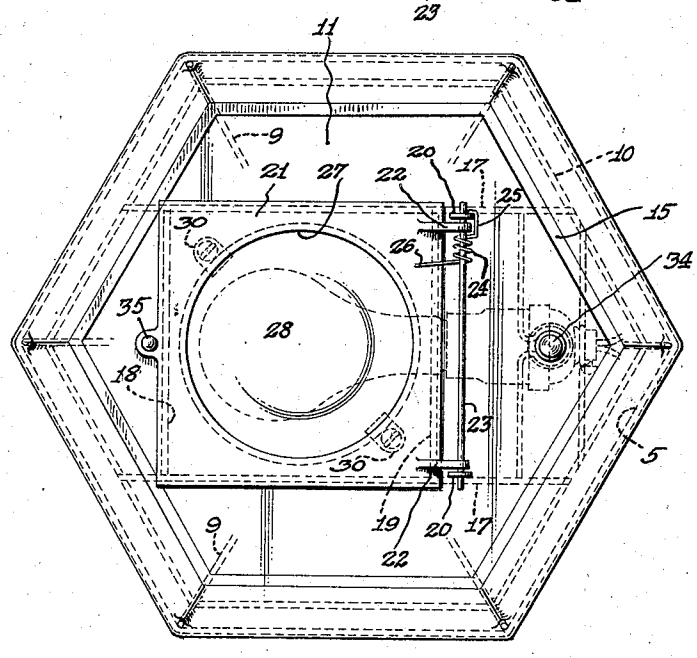


Fig. 2.

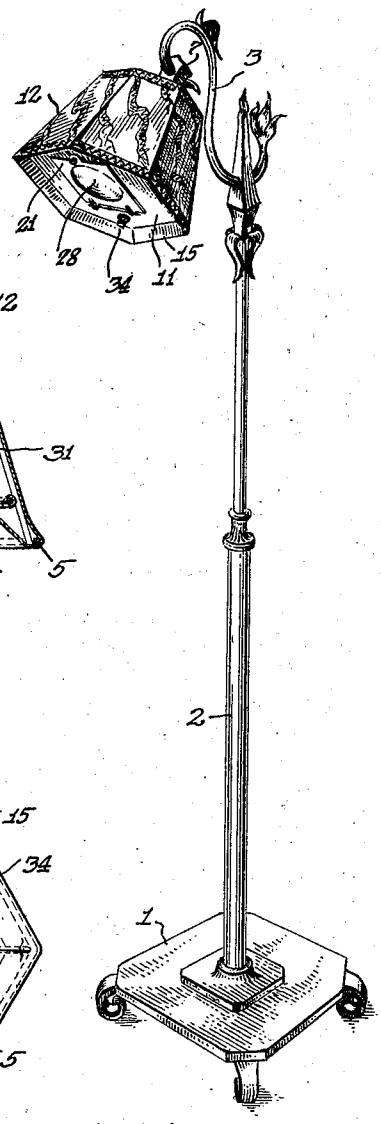


Fig. 1.

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LAMP SHADE

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The present invention pertains to a lamp shade, and the principal object is to provide a device of this character constructed in such a manner as to filter the light and remove those rays which are detrimental to the eyes of a reader using the lamp.

In the accomplishment of this object, the usual open or light-emitting end is bridged by a closure member, and this member is formed with an aperture covered by a hinged shutter. The shutter in turn has an aperture in which is mounted a lens, and at the incident side of the lens is provided a light filter preferably of bluish tint, to impart the character of daylight to the emitted rays and thus remove the disadvantages of artificial light. The switch for controlling the lamp within the shade is conveniently mounted in the closure member.

The invention is fully disclosed by way of example in the following description and in the accompanying drawing, in which

Figure 1 is a perspective view of a lamp equipped with a shade according to the invention;

Fig. 2 is a bottom plan view of the shade; and

Fig. 3 is a longitudinal section thereof.

Reference to these views will now be made by use of like characters which are employed to designate corresponding parts throughout.

In Figure 1 is illustrated a lamp base 1 and a pedestal 2, the latter having at its upper end a head 3 which supports a lamp shade in any desired manner. This part of the construction is conventional and constitutes no part of the invention.

The lamp shade is built on a frame which includes an upper ring 4 and a lower ring 5, the former being larger than the latter and having a central nut 6 which threads on the lower end 7 of the bracket 3 previously mentioned. A conductor 8 passes through the end 7 and into the shade as clearly shown in Figure 3. The frame is completed by a series of ribs 9 extending between the rings 4 and 5 and thus assumes a pyramidal formation.

Above the lower ring 5 an auxiliary frame member 10 of rectangular shape is soldered or otherwise secured to the ribs 9 for the purpose of holding a closure member 11 which covers the normally open or light-emitting end of the frame. The main enclosure of the frame consists of a shade 12 of suitable material and design surrounding the ribs 9 and having its upper end extended as at 13 across the upper ring 4 and secured to a smaller ring 14 held within the ring 4. The lower end of the material 12 is carried upwardly and within the lower member 5 and is secured to the closure member 11 as indicated by the numeral 15.

The closure member has an aperture 16 defined by turning the material constituting the closure 11 around longitudinal wires 17 and transverse wires 18 and 19 supported by the member 10 and constituting a part of the auxiliary frame. A pair of lugs 20 are secured to the longitudinal wires 17 and pass through the closure member as shown in Figure 3. A shutter 21 is provided to close the aperture 16 and is equipped at one edge with a pair of ears 22 lying adjacent the lugs 20 and pivotally attached thereto by means of a rod 23 passed through these parts. A spring 24 wound around the rod has one end 25 secured to one of the lugs 20 and its remaining end 26 extended to engage the shutter in such a manner as to normally hold the same closed over the aperture 16.

The shutter in turn has a central opening 27 in which is mounted a condensing lens 28. On the incident or flat side of the lens is laid a light filter 29 held in position by means of clips 30 and consisting preferably of a flat disk of glass of a bluish tint.

Across the wires 17 is supported an upstanding bracket 31 which in turn supports a lamp socket 32 carrying a lamp 33. The latter preferably lies directly over the lens as clearly shown in Figures 2 and 3. The conductor 8 leads to the socket after passing through a screw switch 34 mounted in the closure member 11. The shutter has a knob 35 by means of which it may be drawn open to permit access to the interior of the lamp shade for the purpose of changing the lamp.

In the use of the device, with the lamp lighted, the filter 29 removes those rays which

are injurious to the eyes. When a filter of blue tint is used, as preferred, the light is imparted the appearance and quality of daylight, and in this respect is far superior to ordinary artificial light. The intensity of the light is reduced in the filtering process but is restored by means of the lens 28 which concentrates the rays into the useful area. The lamp is conveniently turned off and on by means of the screw switch 34.

Although a specific embodiment of the invention has been illustrated and described, it will be understood that various alterations in the details of construction may be made without departing from the scope of the appended claims.

What I claim is:—

1. In a lamp shade, a closure member in the light-emitting end thereof, said closure having an aperture, a shutter hinged to said closure member and adapted to cover said aperture, and a lens in said shutter.

2. In a lamp shade, a closure member in the light-emitting end thereof, said closure having an aperture, a shutter hinged to said closure member and adapted to cover said aperture, a lens in said shutter, and a light filter on the incident side of said lens.

3. In a lamp shade, a closure member in the light-emitting end thereof, said closure having an aperture, a shutter hinged to said closure member and adapted to cover said aperture, a lens in said shutter, a lamp socket supported in said shade, and a switch mounted in said closure member and electrically connected to said socket.

4. In a lamp shade, an auxiliary frame supported in the light-emitting end thereof, a closure member held by said frame, said closure having an aperture, a shutter hinged to said closure member and adapted to cover said aperture, and a lens in said shutter.

5. In a lamp shade, an auxiliary frame supported in the light-emitting end thereof, a closure member held by said frame, said closure having an aperture, a shutter hinged to said closure member and adapted to cover said aperture, a lens in said shutter, a lamp socket supported on said auxiliary frame, and a switch mounted in said closure member and electrically connected to said socket.

6. In a lamp shade, a closure member fitted in the light-emitting end thereof and spaced inwardly from said end, said shade being turned inwardly at said end to engage said member, and a lens mounted in said member.

In testimony whereof I affix my signature.

CHARLES T. BRADY.