Aug. 4, 1936. M. B. CHERNIAK 2,050,085

LIGHTING REFLECTOR

Filed Aug. 22, 1934

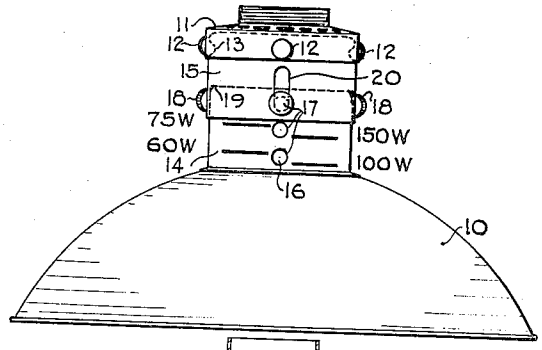


FIG. 1

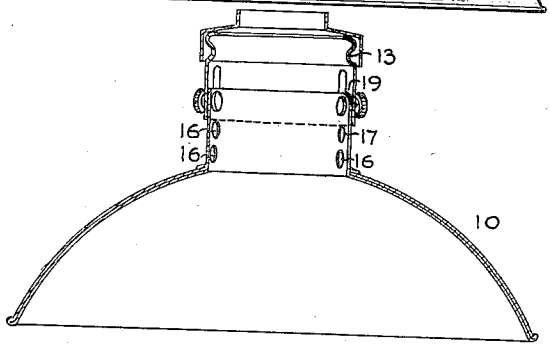


FIG. 2

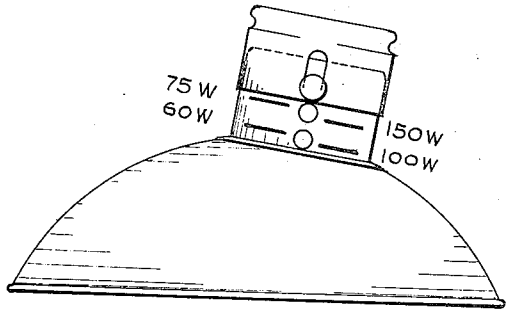


FIG. 3

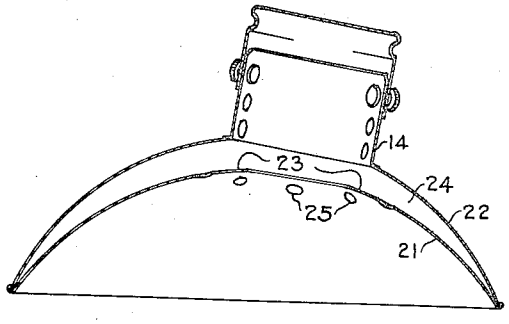


FIG. 4

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LIGHTING REFLECTOR

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Application August 22, 1934, Serial No. 740,926

1 Claim. (Cl. 240—103)

This invention relates to new and useful improvements in lighting reflectors, and it has for its object to provide a reflector-shade, which on account of the adjustable means associated, and adapted to cooperate with the latter will accommodate the lighting bulbs of different watts so that the full and undiminished lighting effect may be derived from such bulbs of different watts without, as, it is now usually the case, changing or selecting reflectors to meet the characteristics of each of such different bulbs.

With the adjustable features, constituting the major part of my invention, it will thus be possible to keep the illuminating filament of a lighting bulb in such prefixed distance from the reflecting surface as to provide the most efficient reflection.

Another object of my invention is to provide a reflector shade with a body portion, which is so constructed that it will embody a cooling system therein, which will add greatly to the life of the bulbs, as these are now generally, on account of an excessive heat imparted to a great extent by the ordinary, now commonly used, reflector shade "burned out" in a comparatively short time.

With the above and other objects in view, this invention consists of the novel features of construction, combination and arrangement of parts, hereinafter fully described, claimed and illustrated in the accompanying drawing forming part of this specification, and in which similar characters of reference indicate corresponding parts in all views, and in which:

Figure 1 is a side elevational view of my device, showing the adjustable features embodied therein.

Figure 2 is a vertical transverse sectional view of Figure 1.

Figure 3 is a side-elevational view of a reflector shade with my cooling system embodied therein; while

Figure 4 is a vertical transverse sectional view of Figure 3.

Referring more particularly to the drawing, 10 indicates a reflector shade adapted to accommodate the usual electric bulb, which is mounted therein in the conventional manner, that is, for instance, by means of a spider 11, fastened upon the standard lamp socket (not shown), and which spider by means of screws 12 in the flanges of the latter, in turn engages the upper neckportion of the shade by way of a depression 13 formed therein.

The neckportion, thus referred to, consists of two parts, namely a lower part 14, integral with the shade proper, and an upper, movable or overlapping, part 15; in other words, the two parts, constituting the neckportion as a whole, are telescoping one within the other.

The lower part 14 has upon its side been formed with a plurality of openings 16, herein arranged in three rows, one of which is shown at 17, at an equal distance from each other, each row having in turn three openings 16, one above the other; said openings being adapted to receive screws 18 therein.

The upper flange of the neckportion, or part, 14 is slightly inwardly bent, as shown at 19, in order to meet and form a seat for the upper neck part 15 with respect to the bottom of the depressed portion 13 formed upon the latter, when the two parts 14 and 15 are wholly telescoped one within the other.

The upper neck part 15 is formed with vertical slots 20, corresponding in number and relative position to the rows of the openings in the part 14. The lower part 14 has upon its side been supplied with indications, as shown in Figure 1, in the form of lines, according to selections, based upon scientific calculations, indicating positions for 60, 75, 100 and 150 watt lamps, which means that upon proper adjustment of the two neck parts 14 and 15, relative to one another, electric bulbs of watts corresponding to the stated indications, may be used with the present reflector to the effect that the latter will yield the utmost in efficiency, which could now normally only be expected, when reflectors, which individually correspond to the watts of the bulbs employed, are used.

The adjustment, thus referred to which may also have the form of a threaded arrangement, is accomplished by lowering the upper part 15 over the part 14 until the lower flange of the part 15 covers or is in line with the proper line or inscription on the side of the lower part 14, thus indicating the position to be used for the bulb according to its watts; which in turn means the relative distance of the filament of the bulb to the reflector shade.

When properly adjusted the two neck parts 14 and 15 are securely held together by means of the screws 18, as will appear evident from the drawing.

In the Figures 3 and 4 have been shown a modification in the construction of the body portion of the reflector shade.

While the same arrangement as to the neckportion, which in these views has been shown as

"set off center", is employed, the reflector shade proper is formed with two, or double walls, **21** and **22**, of which the inner wall **21** is less curved than the outer wall **22**, and has its upper flange **23** projecting slightly farther inwardly than the upper part of the wall **22**, which is integral with the neckportion **14**.

The two walls **21** and **22**, have thus, as shown in the drawing, been formed with an air-chamber **24** therebetween, and it will appear that said chamber opens freely out to what may in this case be termed the shaft or opening of the neckportion **14**.

Arranged in a circle at the upper end or flange of the inner wall **21**, have been formed a number of ventilating openings **25** for co-operation with the air-chamber **24** in order to provide an, under the circumstances, effective air current, which through extensive experimentation has proved to have such a cooling effect upon the lighting bulbs, as to greatly prolong the life of these.

It is obvious that changes may be made in the form, construction and arrangement of the several parts, as shown, within the scope of the appended claim, without departing from the spirit of the invention, and I do not therefore wish to limit myself to the exact construction and arrangement shown and described herein.

What I claim, as new and desire to secure by Letters Patent of the United States, is:

In a device of the class described, a reflector shade having an adjustable neckportion, the said neckportion being arranged in a slanting position and off center with respect to the shade proper, the latter comprising two walls, one bent upon the other at their lower ends and with their upper ends spaced apart, whereby to form an air-cooling chamber therebetween, the upper portion of the inner wall projecting farther towards the shaft formed by said neckportion than the outer wall, and having a plurality of openings annularly arranged therein near the top of its upper portion.

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