July 17, 1934. D. F. AINSLIE 1,967,140

LIGHT RAY DISTRIBUTOR

Filed Feb. 9, 1933

Fig. 1.

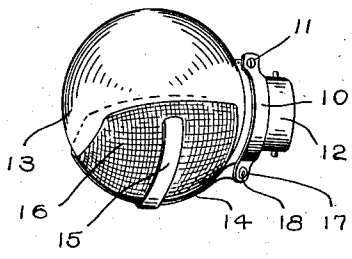
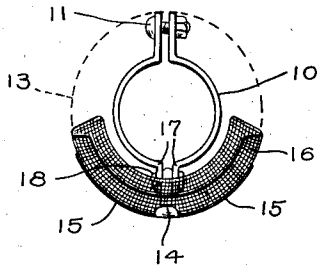


Fig. 2.



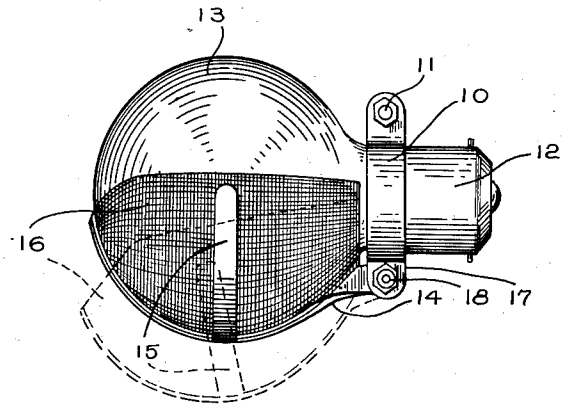


Fig. 3.

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LIGHT RAY DISTRIBUTOR

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Application February 9, 1933, Serial No. 656,017

1 Claim. (Cl. 240—48.6)

This invention relates to improvements in a light ray distributor, its primary object being to provide means to distribute the light rays in a headlight of an automobile.

A further object of my invention is to provide a light ray distributor whereby the light rays from the bulb in an automobile headlight are distributed to the reflector in a manner that will prevent glare and produce a soft mellow light.

A still further object of my invention is to provide means of adjusting the light ray distributor in order to place the same in a position to give the greatest results and means securing the device to the headlight bulb.

With these and other objects in view, that may appear while the description proceeds the invention consists in the novel construction and arrangement of parts as hereinafter more specifically set forth, claimed and shown in the accompanying drawing forming a part of this present application and in which:

Fig. 1 is a perspective view of my invention attached to a headlight bulb.

Fig. 2 is a front elevation of the same.

Fig. 3 is an enlarged side elevation of my improved light ray distributor showing the adjusting means.

Referring more in detail to the drawing in which similar reference characters designate corresponding parts throughout the several views it will be seen that my invention compises a spring metal collar 10 having a tightening screw 11, therefor, said collar designed to fit the shank 12, of an automobile headlight bulb 13. Pivotally supported by the said collar is a bracket member 14 having two oppositely disposed transverse arms 15 forming a part thereof. Secured to the said bracket 14 and arms 15, and supported thereby, is a fine mesh metal wire screen 16. The said screen being shaped concavely to conform to the shape of the light bulb. Likewise the bracket and arms are similarly shaped.

The pivotally supported arm 14 is adjustably secured between lugs 17 on the collar 10 and pivoted on a tightening screw 18. This arrangement provides a variable adjustment of the screen 16, the most efficient position for the same being determined by due trial and observation. The collar tightening means and the adjustable arm tightening means provide positive support for the device which cannot be moved by the vibration of the car.

The screen 16 as will be seen, is held on the underneath side of the light bulb in a manner to intercept the downward projecting light rays and diffuse the same. The screen, acting as an intermediary reflector between the light globe and the headlight reflector, conserves the total light by changing the distribution or direction in which the light rays are projected, the result being that the blinding glare is obliterated and the light produced is soft and mellow.

It is believed that the construction and advantages of the structure shown will be apparent from the foregoing paragraphs taken in conjunction with the accompanying drawing without further detailed description.

While the preferred embodiment of the invention has been disclosed it is understood that minor changes in the details of construction, combination and arrangements of co-operating elements may be resorted to within the scope of what is claimed without departing from the spirit of the invention.

I claim:

A reflecting shield for electric bulbs comprising a concave wire screen shield adapted to fit over the electric bulb, a supporting member for said shield including a longitudinal arm having transversely extending arms intermediate its length, said arms being curved to conform to the contour of said shield, a supporting bracket including clamping members adapted to fit around the shank of the electric bulb, means adjustably securing the upper ends of the clamping members together, and means adjustably securing one end of the longitudinal arm of said supporting member to the lower ends of said clamping members.

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