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HEADLIGHT FOR AUTOMOBILES

Filed July 17, 1928

Fig. 1.

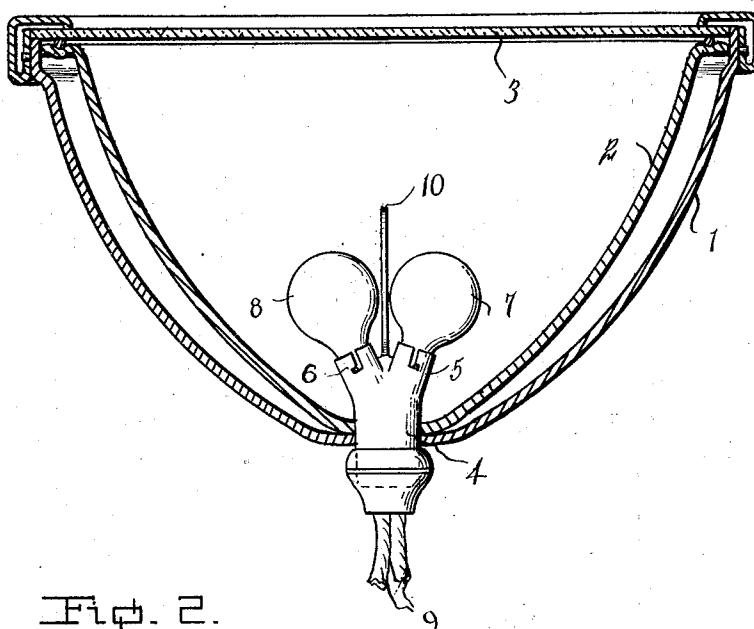
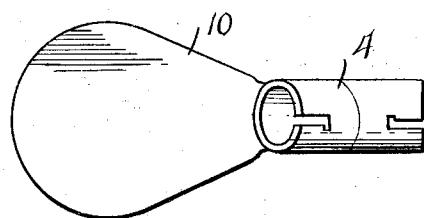


Fig. 2.



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## UNITED STATES PATENT OFFICE

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## HEADLIGHT FOR AUTOMOBILES

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The present invention is directed to improvements in headlights for automobiles.

The primary object of the invention is to provide a headlight employing a pair of 5 bulbs located away from the focus of the headlight reflector so that the light rays will be reflected in all directions, more or less, rather than in an intense blinding beam.

Another object of the invention is to provide a headlight wherein one bulb may be 10 extinguished, and wherein means will be provided for deflecting the rays of the other illuminated bulb in a direction not only to prevent the blinding effect upon approaching drivers, but also illuminate the side of the 15 roadway.

Another object of the invention is to provide a device of this character which is simple in construction, efficient in operation, durable 20 and one which can be manufactured at a very small cost.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:—

Figure 1 is a horizontal sectional view through a headlight showing the same 30 equipped with the device.

Figure 2 is a side view of the device removed from the headlight.

Referring to the drawing 1 designates the casing of the conventional form of headlight 35 and in which is mounted the usual parabolic reflector 2, there being a lens 3 closing the reflector, as usual.

Suitably fitted in the reflector is a plug 40 socket having carried thereby divergently arranged sockets 5 and 6, said sockets having detachably engaged therein bulbs 7 and 8, respectively. Current is furnished through the sockets for illuminating the bulbs through wires 9 which are connected to a switch, not shown, which may be of any well known type capable of operating to permit both bulbs to be illuminated in each headlight or just one in each headlight, as the occasion may require.

50 The sockets 5 and 6 are disposed in hori-

zontal planes within the reflector and suitably fixed to the plug 4 is a reflector plate 10 formed from suitable polished sheet metal, and preferably of the shape shown. This reflector plate is disposed vertically and is 55 of such size that it will effectively shield the bulbs from each other.

It will be obvious that where both bulbs are illuminated the rays therefrom will be reflected in a direction to illuminate the roadway for considerable distance in advance of the car. However, when it is desired to dim the headlights to prevent the rays from blinding the driver of an approaching car it is only necessary to extinguish the bulb 7 60 upon the right hand side of the plate 10, whereupon the rays from the bulb 8 upon the left hand side of the plate will be reflected by the plate to the left side of the reflector and thence diagonally with respect to its longitudinal axis to the right, as indicated in dotted lines in Figure 1. In this manner the rays will be deflected from the center of the roadway to the side thereof, thus permitting the driver to note the condition of the right 75 hand side of the roadway.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description and it will be understood that various changes in the size, shape and proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the 80 85 advantages of the invention.

What is claimed is:—

A lighting unit for headlights comprising a plug socket and integral lamp sockets extending therefrom in divergent relation, and a flat pear-shaped plate rigidly attached at the smaller end to the outer end of the plug socket and projecting outwardly therefrom to lie between lamp bulbs fitted to the lamp 90 95 sockets.

In testimony whereof I affix my signature.  
JOHN E. POWERS. [L. S.]