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HEADLIGHT FOR AUTOMOBILES

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Fig. 1.

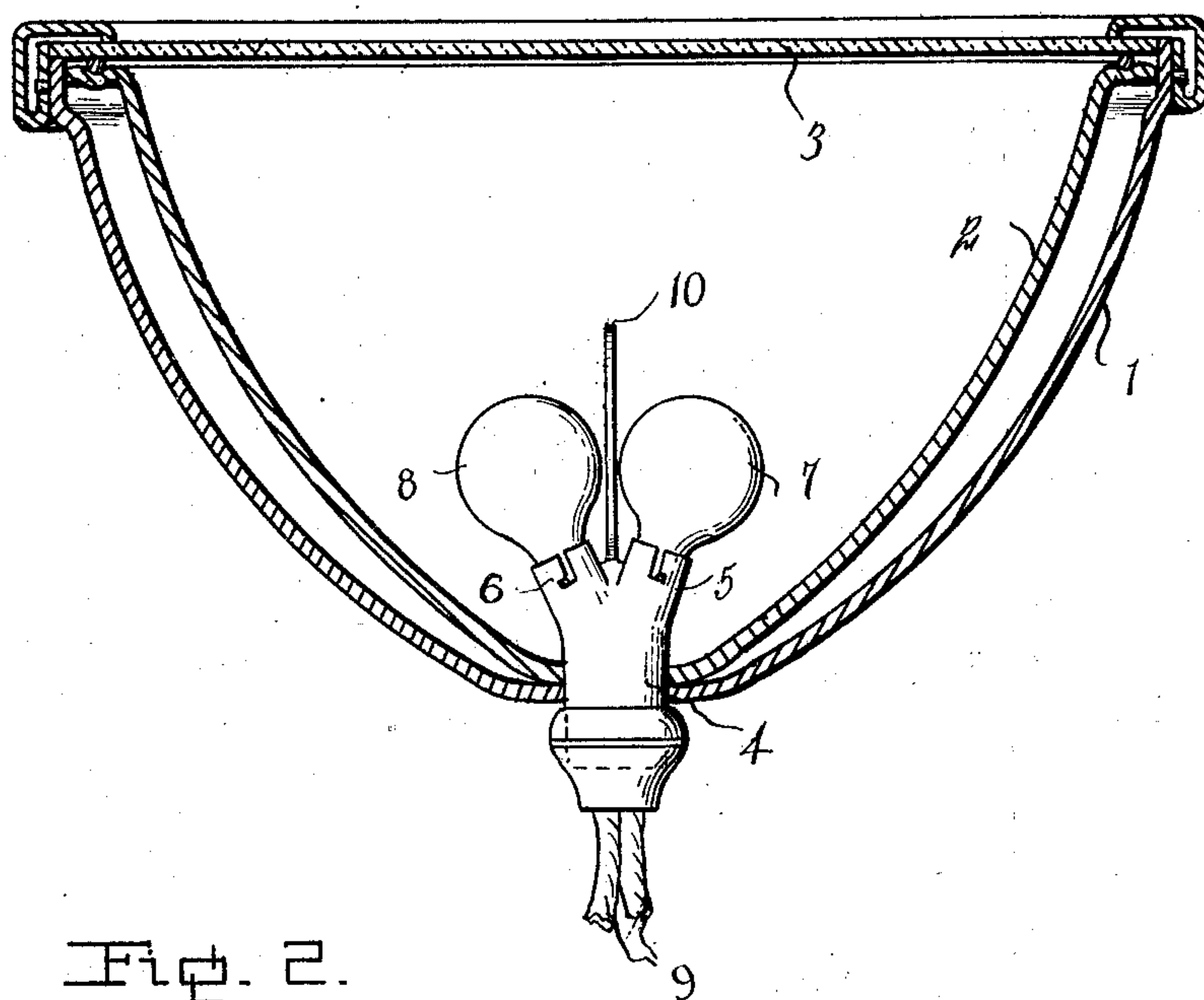
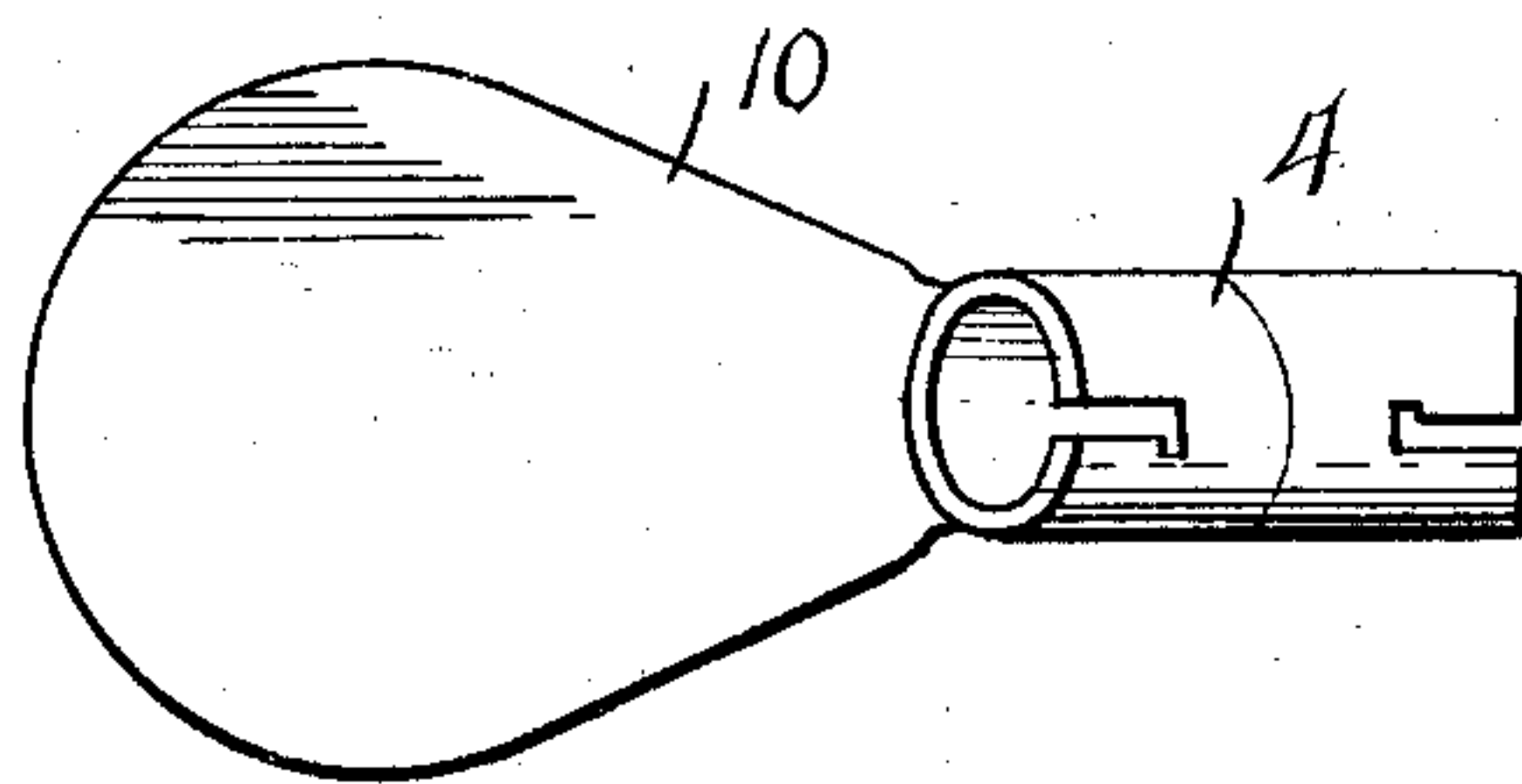


Fig. 2.



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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 approach-  
15 ing drivers, but also illuminate the side of the 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  
25 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 socket 4 having carried thereby divergently  
40 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  
45 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 road-  
60 way 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  
65 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 lon-  
70 gitudinal 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, with-  
80 out 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  
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  
90 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  
95 sockets.

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