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AUTOMOBILE HEADLIGHT STRUCTURE

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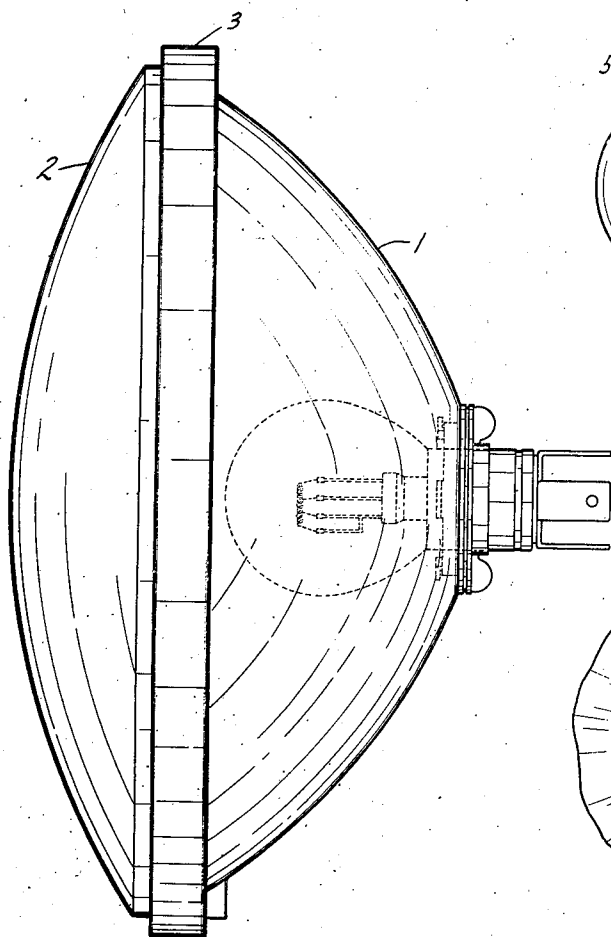


Fig. 1

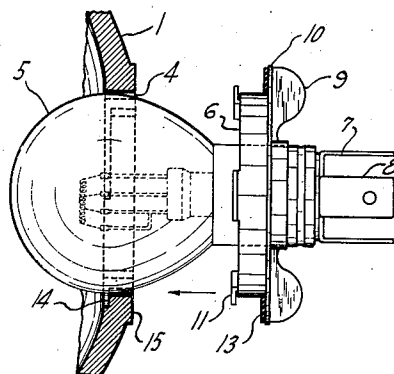


Fig. 2

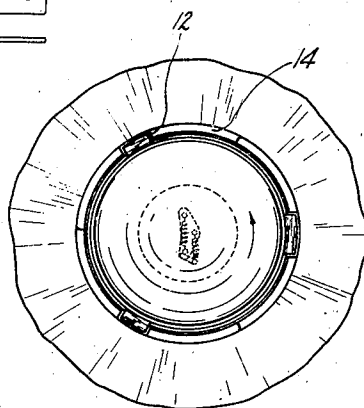


Fig. 3

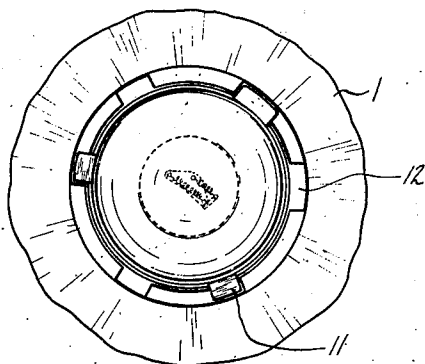


Fig. 4

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AUTOMOBILE HEADLIGHT STRUCTURE

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3 Claims. (Cl. 240—41)

This invention relates to new and useful improvements in automobile headlight structures, and it is among the objects thereof to provide a novel means of mounting the light bulb in a combined sealed type lens and reflector, in a manner to permit its removal without destroying the seal between the lens and reflector.

Further objects of the invention will become more evident from a description of the accompanying drawing constituting a part hereof in which like reference characters designate like parts and in which:

Fig. 1 is a side elevational view of an automobile headlight unit embodying the principles of this invention;

Fig. 2 a view partially in cross section and partially in side elevation of a portion of the reflector and the light bulb attaching means;

Fig. 3 a front elevational view of the interior of the headlight reflector and bulb with the named parts in register, as they are assembled; and

Fig. 4 a view similar to Fig. 3 with the lens and bulb holder in a completely assembled position.

With reference to the several figures of the drawing, the numeral 1 designates a headlight reflector of mirrored glass, although the invention is adapted for use with the metal reflectors. The numeral 2 designates the glass lens which is joined to the reflector 1 by a sealing annulus 3 which is spun or stamped on the flanged engaging faces of the reflector and lens in a manner which forms no part of the present invention.

As shown in Fig. 2, the reflector portion 1 is provided with a central opening 4 of a diameter sufficient to allow the insertion of a light bulb 5 which is mounted on a bracket 6 in a manner to be electrically connected with terminals 7 and 8. The bracket 6 is provided with wings 9 extending from a flange 10 and on its inner face is provided with radial lugs 11, there being three such shown in Figs. 3 and 4. The reflector portion is provided with slots 12, somewhat larger than the lugs 11, which are inserted through the slots in the manner shown in Fig. 3.

The sealing gasket 13 is disposed against flange 10 of the bulb bracket and the inner face 14 of the reflector is cam-shaped so that when bracket 6 is disposed in the central opening 4 of the reflector with lugs 11 in register with slots 12 on the inside of the reflector, the wings 9 will be rotatable to displace the lugs against the cam face 14 in a way to draw the bulb bracket in sealing engagement with the flat surface 15 of the reflector.

Because of the need for mounting the filaments of the bulbs in proper vertical alignment, as shown in the drawing, one of the lugs 11 is wider than the others and registers with a cor-

respondingly widened slot of the reflector so that the bulb bracket can be inserted only in a manner to bring the filaments in proper alignment in the reflector.

By constructing the reflector and bulb bracket in the manner disclosed, the light bulbs may be replaced without breaking the sealing joint between the reflector and lens, thereby eliminating the breakage of the glass parts incident to breaking of the seal, which is the principal feature of the invention.

The construction of bulb bracket and the manner of its assembly with the reflector assures sealing of the lens and reflector at the joint of the reflector and bulb bracket, which is another important feature of the invention as it affords a pressure seal by the act of assembling the bulb bracket on the reflector.

Although one embodiment of the invention has been herein illustrated and described, it will be evident to those skilled in the art that various modifications may be made in the details of construction without departing from the principles herein set forth.

I claim:

1. In an automobile headlight structure, a combined reflector and lens, the reflector having an opening with sealing faces adjacent the opposite ends of said opening and said opening being of a size to permit insertion of a light bulb, a bracket having a light bulb mounted therein and having a radial flange and radial lugs spaced to accommodate the thickness of the reflector wall therebetween, and a wing lug on the outer side of the bracket whereby when the bulb is inserted through the reflector opening the bracket may be turned to draw the outer flange in sealing engagement with the reflector wall.

2. In an automobile headlight structure, a combined reflector and lens, the reflector having an opening with seating faces adjacent the opposite ends of said opening and said opening being of a size to permit insertion of a light bulb and having angularly spaced slots therein, a bracket having a light bulb mounted therein and having a radial flange and radial lugs spaced to accommodate the thickness of the reflector wall therebetween, the spacing of the lugs corresponding to the spacing of the slots in the opening, and a swing lug on the outer side of the bracket whereby when the bulb is inserted through the reflector opening the bracket may be turned to draw the outer flange in sealing engagement with the reflector wall.

3. An automobile headlight structure as set forth in the next preceding claim having a sealing gasket disposed between the outer flange and reflector wall.

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