Jan. 9, 1923. 1,441,374.

G. A. ROBERTS.

AUTOMOBILE HEADLIGHT.

FILED JAN. 14, 1922.

Fig. 1.

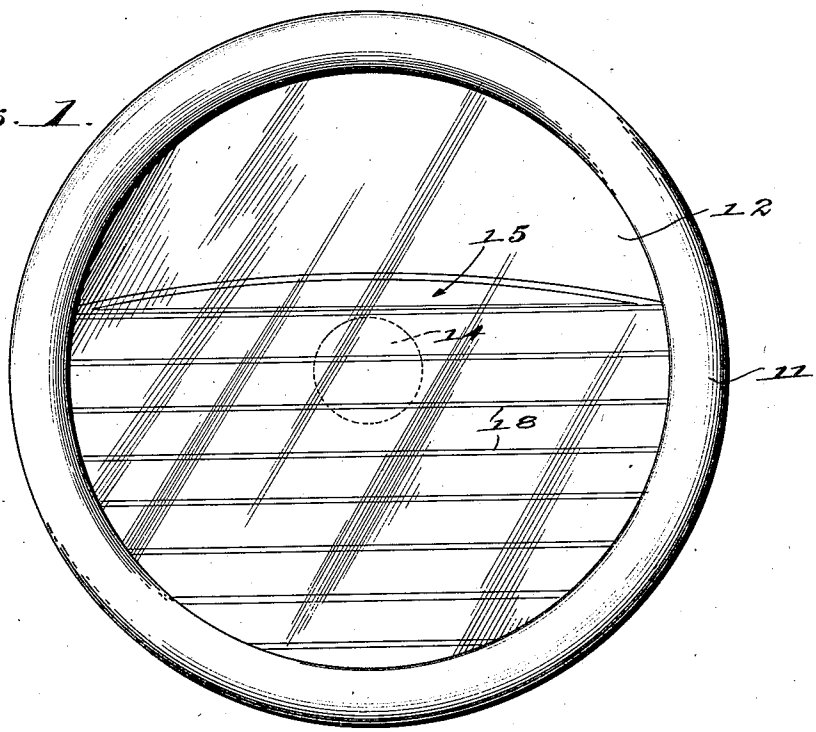
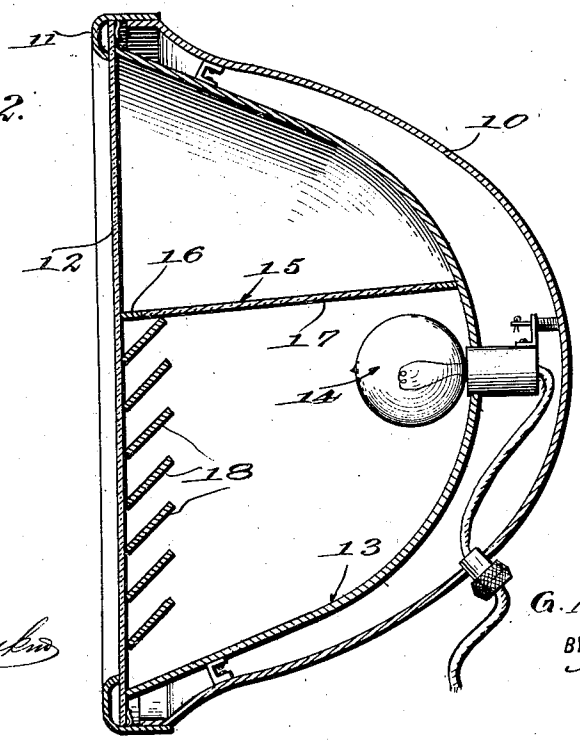


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE A. ROBERTS, OF MANCHESTER CENTER, VERMONT.

AUTOMOBILE HEADLIGHT.

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To all whom it may concern:

Be it known that I, GEORGE A. ROBERTS, a citizen of the United States, and a resident of Manchester Center, in the county of Bennington and State of Vermont, have invented certain new and useful Improvements in Automobile Headlights, of which the following is a specification.

My present invention relates generally to automobile headlights and more particularly to non-glare headlights, my object being the provision of a headlight construction whereby maximum light may be thrown upon a roadway in advance of the headlight, without glare, and still permit of the use of a clear glass bulb as well as a clear glass front plate in order that maximum light from the bulb will be utilized.

In the accompanying drawing which illustrates my present invention and forms a part of this specification,

Figure 1 is a front elevation of my improved headlight, and

Figure 2 is a vertical longitudinal section taken centrally therethrough.

Referring now to these figures my improved headlight may include the usual casing 10 and rim 11, the latter surrounding the open front or forward edge of the headlight casing 10 and suitably secured thereto for the purpose of holding the clear glass front plate 12 in place across the open front of the reflector 13 located within the casing.

In the reflector 13 a source of light, for instance an electric bulb 14 is focused as usual, and this bulb may be of clear glass, its upwardly directed rays, which would otherwise impinge upon and be reflected forwardly by, the upper portion of the reflector 13, being subdued and its direct forward rays being cut off by means which I will now proceed to describe.

In accordance with my invention a horizontally disposed partition 15 is located within the reflector slightly above the plane of the light bulb 14 and includes a narrow surrounding frame 16 whose forward portion extends across the front of the reflector immediately in the rear of the transparent front plate 12, said frame extending for the full depth of the reflector and having a flat section of translucent material as at 17 disposed therein. This section of translucent material is preferably colored to soften the light, as by giving it a greenish hue.

Below the forward portion of the partition 15 is a vertical series of relatively narrow light deflecting fins 18, this series of fins extending vertically throughout the lower portion of the reflector 13 that is below the partition 15, and each fin being inclined upwardly and inwardly so that all direct rays from the light source 14 as well as all rays reflected forwardly from that portion of the reflector 13 below the partition 15, will be deflected downwardly by the fins 18 and thus directed downwardly upon a roadway surface in front of the headlight.

It is obvious from the foregoing that undimmed light rays emanating from the headlight will flood a roadway surface in front of the headlight without danger of undesirable glare and that the longer rays reflected forwardly from the upper portion of the reflector 13 above the partition 15 will be softened and colored so that all danger of glare will be likewise avoided and this will be true even where an automobile equipped with a headlight is proceeding upwardly over the crest of a hill.

I claim:

1. A headlight including a source of light, a reflector in which the source of light is focused having an internal horizontally disposed translucent partition above the source of light and extending for the full depth of the reflector, and a series of vertically spaced light deflecting fins extending across the forward portion of the reflector below the said partition.

2. A headlight including a source of light, a reflector in which the said source of light is focused, having an internal horizontally disposed translucent partition above the source of light and a vertical series of upwardly and inwardly inclined light deflecting fins in the forward portion of the reflector, the said series extending continuously from the forward portion of the said partition to the lower portion of the reflector as described.

GEORGE A. ROBERTS.