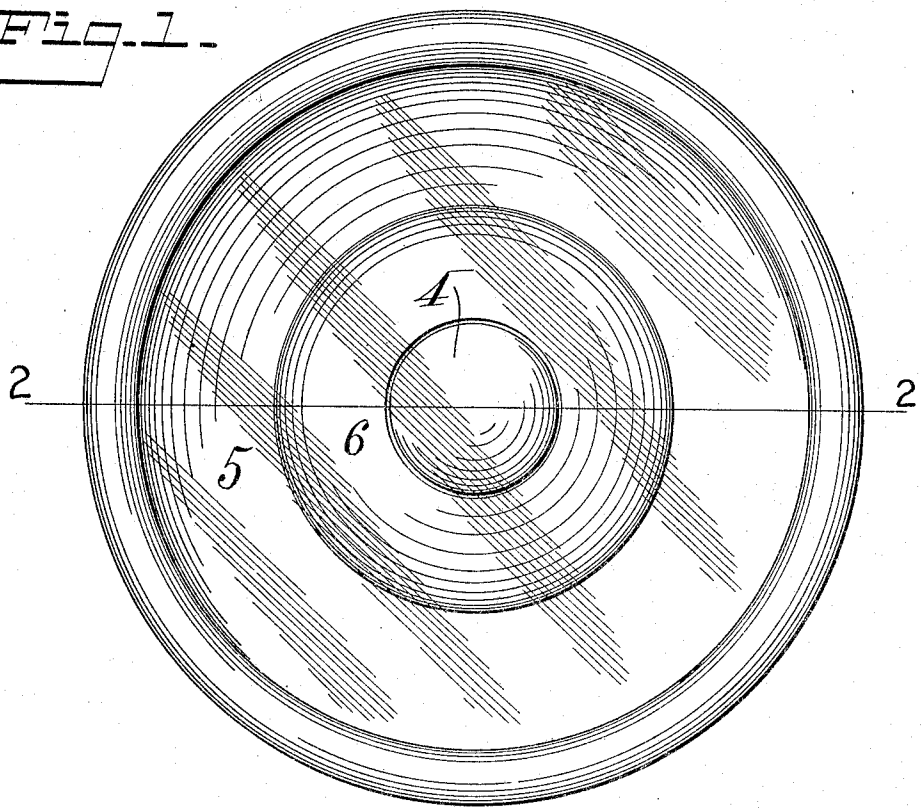
A. C. ARNETT.

AUTOMOBILE LIGHT REFLECTOR.

APPLICATION FILED FEB. 13, 1920.

1,361,354. Patented Dec. 7, 1920.

Fig. 1.



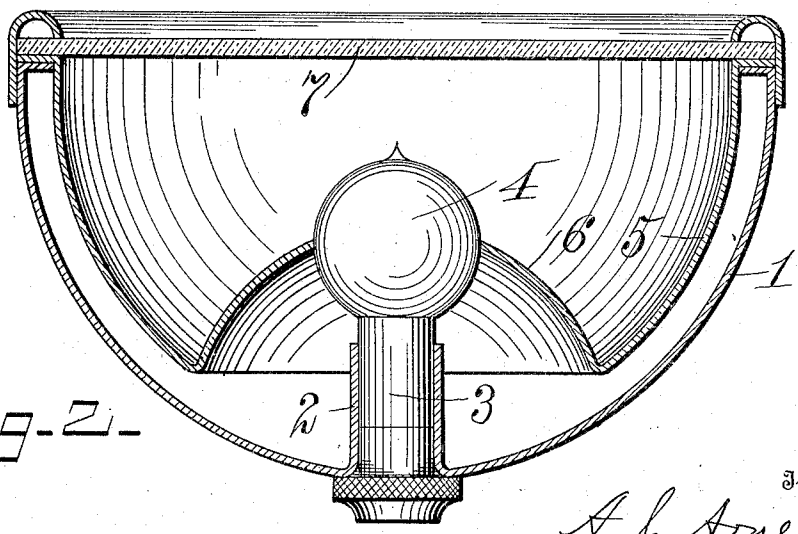


Fig. 2.

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UNITED STATES PATENT OFFICE.

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AUTOMOBILE LIGHT-REFLECTOR.

1,361,354. Specification of Letters Patent. Patented Dec. 7, 1920.

Application filed February 13, 1920. Serial No. 358,423.

To all whom it may concern:

Be it known that I, ALBERT C. ARNETT, a citizen of the United States, residing at Shilo Springs, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Automobile Light-Reflectors, of which the following is a specification.

This invention relates to new and useful improvements in head-lights such as are usually employed on automobiles.

The object of the invention is to provide means in a lamp or head-light of this character whereby the light is so controlled that the road or street ahead may be seen in front of the automobile, and the usual blinding glare due to the light being directed straight ahead from a reflected surface immediately surrounding the lamp, is eliminated, as will hereinafter more fully appear from the description to follow in connection with the accompanying drawings.

Figure 1 is a front elevation of an automobile lamp containing my improvement. Fig. 2 is a sectional view on the line 2—2 of Fig. 1.

In a more specific description of the invention similar reference characters denote similar parts in the description and in the drawings.

The light reflector as a whole is of the usual hollow shape and may be a spun or stamp structure. The usual protecting glass or lens —7— is supported in the front thereof. The rear wall —1— is extended in concave form and at the center thereof provides a socket —2— for the insertion of a plug —3— which supports the lamp or bulb —4— in a central position. The front wall —5— provides the light reflecting surface.

The important feature of the invention consists in means whereby the reflecting surface of the device immediately behind the lamp or bulb is eliminated and the rays of light from the rearward portion or half of the bulb is housed or confined and is not reflected. In the drawings the portion of the reflecting surface —5— immediately surrounding the lamp or bulb —4— is shown to be formed with a forward bulged or convex surface —6— which extends around the circumference of the lamp or bulb at approximately the center thereof and houses the rays of light from the rearward part of the lamp. The non-reflecting surface —6—, in area, is equal to substantially half the widest diameter of the reflecting surface —5—. It will therefore be seen that the rays of light from the forward or exposed portion of the bulb or lamp will be thrown to the side reflecting surface —5— from which surface the light is thrown to the sides of the roadway or street ahead of the automobile. It is to be understood that the surface —6— immediately surrounding the lamp or bulb —4— need not necessarily be of rounded or concavo-convex form as shown. This form is merely adopted in the present case as being more ornamental or pleasing to the eye. The same results due to eliminating reflected light immediately from the rear of the lamp or bulb may be obtained by other forms of construction of the wall —6— whereby the light from the rear of the lamp or bulb —4— is housed or concealed and the surface of the reflector —5— in the lamp for a substantial area is eliminated.

Having described my invention, I claim:

1. A light reflector having a non-reflecting wall in the central part thereof which extends across the interior of the reflector and reduces the reflecting surface thereof, and an incandescent lamp projected into an opening in said wall in a fixed position relative thereto, a portion of said lamp lying rearward of the wall whereby the rays from said rearward portion of said lamp is confined by said wall while the rays of the exposed part of the lamp is reflected by the reflecting surface.

2. A light reflector having a central part thereof extended in a stationary wall, an incandescent lamp mounted in an opening in the center of said wall in a fixed position, a portion of said lamp lying rearward of the wall, whereby the rays of light emitted from said lamp rearward of the wall is confined thereby, while the rays of light emitted from the part of said lamp lying forward of said wall is reflected by the reflecting surface of said reflector.

In testimony whereof I affix my signature.

ALBERT C. ARNETT.