A. BAUMGARTEN.

ADJUSTABLE REFLECTOR.

APPLICATION FILED OCT. 21, 1915.

1,191,650. Patented July 18, 1916.

Fig. 1.

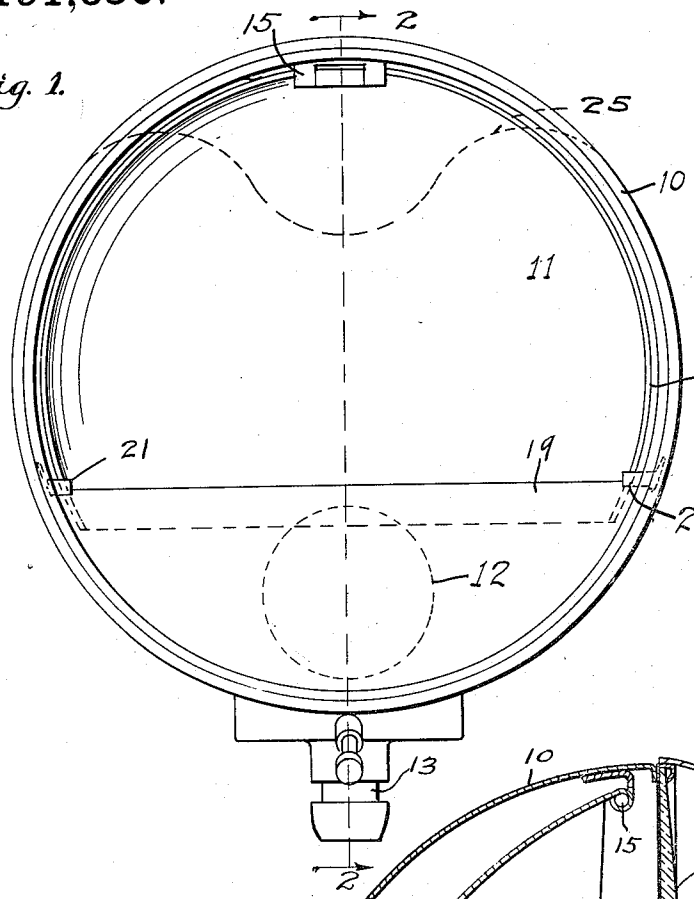
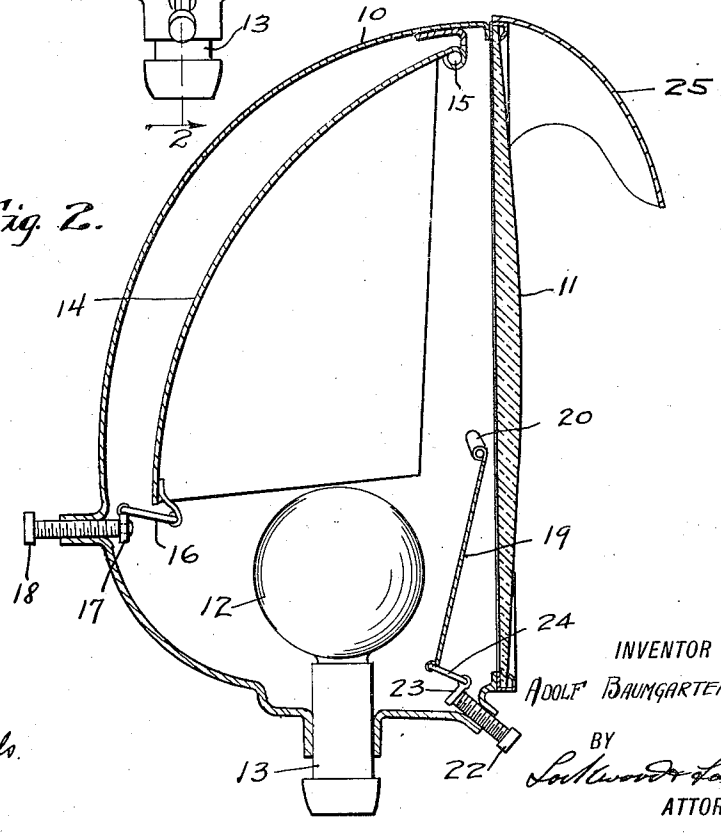


Fig. 2.



WITNESSES:

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ADOLF BAUMGARTEN, OF MUNCIE, INDIANA, ASSIGNOR OF ONE-THIRD TO HARRY L. KITSELMAN AND ONE-THIRD TO WILLIAM H. SCHAUFELBERGER, BOTH OF MUNCIE, INDIANA.

ADJUSTABLE REFLECTOR.

1,191,650. Specification of Letters Patent. Patented July 18, 1916.

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To all whom it may concern:

Be it known that I, ADOLF BAUMGARTEN, a subject of Emperor William of Germany, and a resident of Muncie, county of Delaware, and State of Indiana, have invented a certain new and useful Adjustable Reflector; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

The object of this invention is to provide a means in a headlight whereby the light may be reflected where desired by simple adjusting means. Heretofore it has been necessary to move or bend the entire lamp or bracket in order to focus the light on the desired spot, which is often inconvenient or impossible. Whereas by means of this invention the reflecting means may be easily and quickly adjusted so as to obtain the proper focus.

Another object of this invention is to provide reflectors in a headlight which will throw the light directly on the road in front, when used on automobiles, and not parallel or upward so as to be blinding to persons approaching from the other direction. This headlight is especially adapted to be used on automobiles and the like, and its construction will comply with the dimming ordinances of the various cities as a means of protecting others from the glare of the light. In other words, this light is especially adapted to take the place of dimming devices.

There is provided a reflector adapted to swing from the top of the lamp and extending downwardly within the casing behind the bulb or lighting means. Another reflector is pivoted to the sides of the casing and extends downwardly therefrom in front of the lighting means so as to reflect the rays rearwardly and toward the first mentioned reflector. Suitable means are secured to the reflectors so as to extend through the casing, whereby the reflectors may be adjusted as desired.

The full nature of the invention will be understood from the accompanying drawings and the following description and claim.

Figure 1 is a front elevation of the headlight. Fig. 2 is a cross-section on the line 2—2 of Fig. 1.

In the drawings there is shown a headlight having a casing 10, a lens 11, a lamp bulb 12 and socket 13. There is a concave reflector 14 of substantially the same shape as the rear portion of the casing and secured at the top thereof by a hinge 15. Said reflector extends downwardly and to the rear of the lamp 12. Secured to said reflector there are link members 16. A sleeve 17 rides loosely upon the set-screw 18 and is pivoted to the brace 16, whereby the reflector 14 may be swung from its hinge 15 forward or backward and adjusted in any desired position.

A second reflector 19 is pivoted at each end by means of the pins 20 and 21 to the sides of the casing forward of the lamp or lighting means 12. Said reflector swings downwardly in front of said lamp near to the bottom of the casing. There is a thumb screw 22 extending through the casing, upon which a sleeve 23 rides, which is secured to the reflector 19 by the link 24. This reflector may be adjusted by means of the set-screw to any desired position, swinging on the hinge 20. Integral with the casing, and extending forward and downward from the top thereof, there is a cap projection 25 which will further prevent the upward reflection of the rays.

The rays from the lamp will strike the reflector 14 and be thrown forward through the lens 11 to the road or other object. The reflector is of such a shape that the rays from the lamp will be concentrated and may be thrown in any desired position by means of the adjustment of said reflector by simply turning the set-screw 18. The reflector 19 will catch the forward rays from the lamp and reflect them back to the reflector 14, which will in turn reflect the rays through the lens 11. This second reflector may also be properly adjusted so as to throw its rays in the desired place upon the reflector 14. It will be readily seen that no direct rays will be sent from the lamp itself, and by means of the adjustable

reflectors a concentration of the rays will be thrown where desired.

The invention claimed is:

A headlight including a lamp, a casing, a downwardly extending reflector hinged at its upper end to the upper portion of said casing and extending to the rearward of said lamp, a second upwardly extending reflector pivoted to the sides of said casing forward of said lamp, and external means for adjusting said reflectors.

In witness whereof, I have hereunto affixed my signature in the presence of the witnesses herein named.

ADOLF BAUMGARTEN.

Witnesses:

W. H. SCHAUFELBEGER,

CHARLINE HINKLE.