

O. A. KUBAT.
HEADLIGHT DIMMER.
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1,433,731.

Patented Oct. 31, 1922.

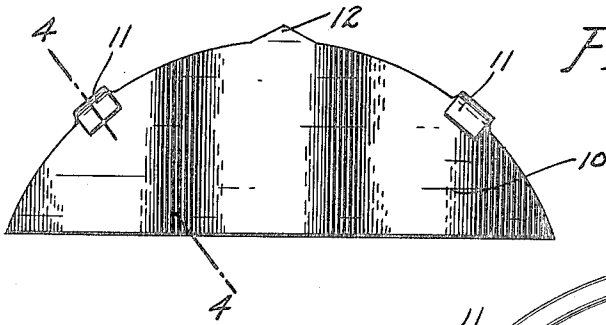


Fig. 3

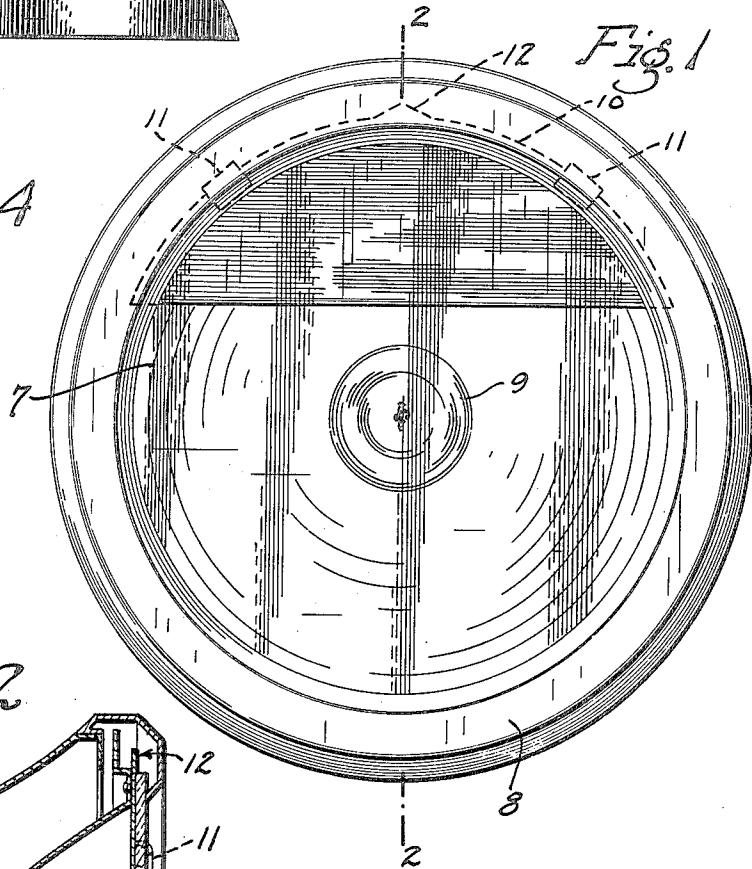


Fig. 1

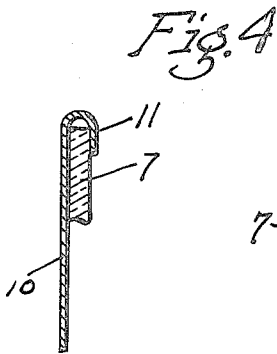


Fig. 4

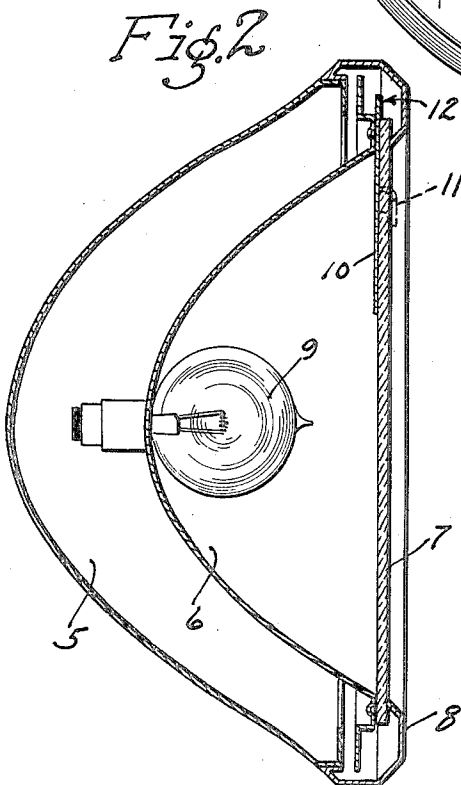


Fig. 2

INVENTOR
Otto A. Kubat
BY HIS ATTORNEYS

Williamson & Michael

UNITED STATES PATENT OFFICE.

OTTO A. KUBAT, OF OWATONNA, MINNESOTA.

HEADLIGHT DIMMER.

Application filed September 25, 1920. Serial No. 412,773.

To all whom it may concern:

Be it known that I, OTTO A. KUBAT, a citizen of the United States, residing at Owatonna, in the county of Steele and State of Minnesota, have invented certain new and useful Improvements in Headlight Dimmers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide an extremely simple and highly efficient head light dimmer, for use in connection with automobile head lights, and to such ends generally stated the invention consists of the novel construction and arrangements of parts herein after described and defined in the claims.

As preferably designed the dimmer is of segmental form with an approximately straight lower edge, and is constructed from a single piece of celluloid, colored green or of other character which will pass a very considerable part of the light rays from the head light but will dim or intercept the blinding rays that are projected outward from the head light and otherwise would blind persons in passing automobiles.

In the accompanying drawings which illustrate the invention, like characters indicate like parts throughout the several views. Referring to the drawings:

Fig. 1 is a front elevation showing a head light, equipped with one of my improved dimmers.

Fig. 2 is a vertical section taken on line 2—2 of Figure 1.

Fig. 3 is a front elevation of the dimmer removed from the head light and

Fig. 4 is a section on line 4—4, of Figure 3.

The head light is of the usual or any suitable construction and comprises the casing 5, the reflector 6, the lens or glass disc 7, and the clamping rim 8, which in the customary manner detachably clamps the lens to the casing and against the reflector. The lens 7 will preferably be of clear glass. The numeral 9 indicates the customary light bulb, within the reflector.

The dimmer which, as indicated, is of segmental form with approximately straight lower edge, and is made of celluloid is indicated by the numeral 10. At its upper

edge the dimmer 10 is formed with integral overturned hook like clamping flanges 11 that are adapted to engage over the upper edge of the lens 7.

At the central portion of the upper edge the dimmer 10 is preferably formed with a pointed lip 12, which is serviceable in properly locating the dimmer on the lens.

The dimmer may be applied either on the front or on the back of the lamp, but is preferably placed on the back or inner face of the lens where it will be protected from dirt and dust and will leave the outer surface of the lens unobstructed so that it may be kept clean.

When the dimmer is properly applied its lower edge should be approximately horizontal. When the lens with the applied dimmer is placed within the clamping ring 8, the latter will hold the dimmer positively in position on the lens. The clamping ring, as is well known, is applied by a partial rotation and lateral rearward movement; and when thus moved carries the lens with it. Before applying the dimmer a mark may be made on the clamping ring while it is interlocked to the head light, and then when the clamping ring has been removed, if the dimmer be applied on the lens with the point of its lip 12 in line with the mark made on the rim 8, it will follow that, when the rim has been reapplied to the head light, the lower edge of the dimmer will be horizontal.

The dimmer, as already indicated, is preferably the segment of a circle, and it should be considerable less than a half circle so that the lower edge of the dimmer will be above the axis of the head light when it is applied thereto.

In actual practice this dimmer has been found very efficient for the purpose had in view. It may be made at comparatively small cost and can be applied with the greatest possible ease. The dimmer should be made in different sizes and with the line of curves that correspond to the size of the lens to which it is to be applied.

The dimmer may vary somewhat in form, for example, its lower edge might be slightly concave so that the dimmer in form would more closely approximate crescent shape. However, the upper edge of the dimmer should have approximately the same curve as the lens and the lower edge thereof should

be above the axis of the lens and should extend on a line that approximates a horizontal line, representing approximately a chord of the curved upper edge.

5 What I claim is:

1. An article of manufacture constituting a dimming device and comprising a piece of colored celluloid shaped substantially as the segment of a circle and having a
10 pair of spaced integral lugs bent into substantial parallelism with the surface of the segment forming hooks on its curved edge whereby the device can be hung on the lens

of an automobile lamp and supported by said hooks.

2. The device set forth in claim 1, said segment having an integral projecting point disposed centrally of its curved edge for use in positioning said device, the lugs being spaced at each side thereof.

In testimony whereof I affix my signature in presence of two witnesses.

OTTO A. KUBAT.

Witnesses:

ADELINE C. PARTRIDGE,
PAUL H. EVANS.