G. MATTOX.

DIMMER FOR HEADLIGHTS.

APPLICATION FILED JULY 12, 1919. RENEWED JAN. 8, 1921.

1,371,179. **Patented Mar. 8, 1921.**

Fig. 1.

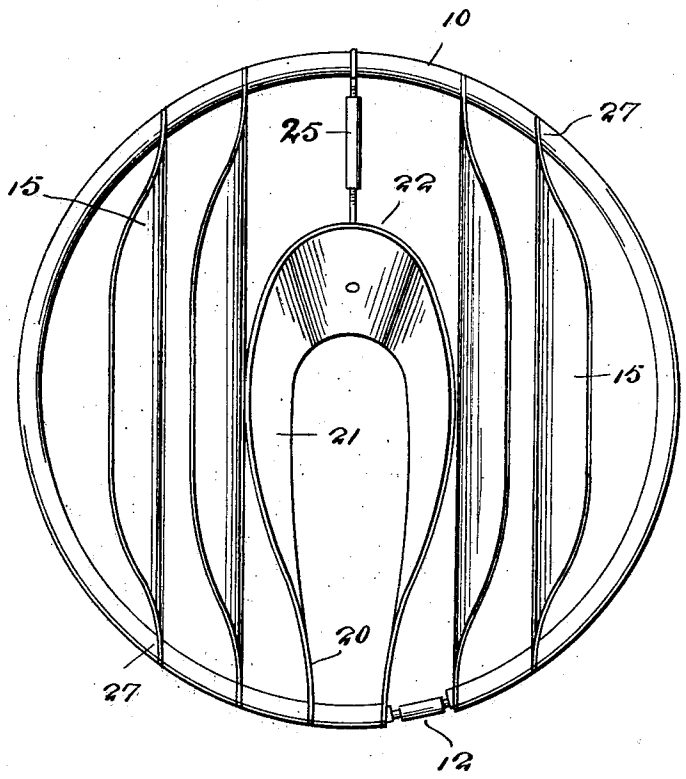


Fig. 2.

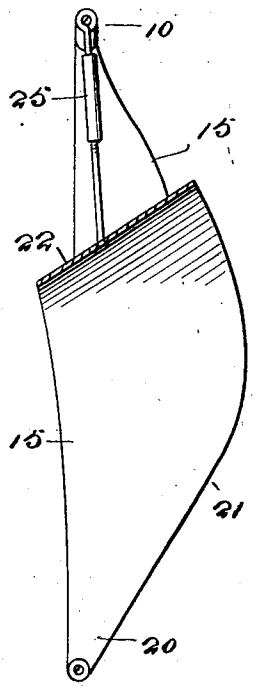
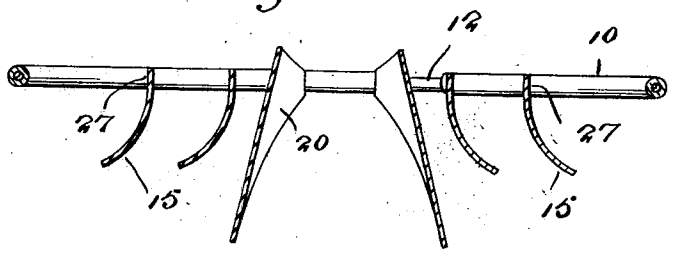


Fig. 3.



WITNESS:

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DIMMER FOR HEADLIGHTS.

1,371,179. Specification of Letters Patent. Patented Mar. 8, 1921.

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To all whom it may concern:

Be it known that I, GURNIE MATTOX, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented new and useful Improvements in Dimmers for Headlights, of which the following is a specification.

This invention relates to a dimmer for headlights and is designed for use whereever it is desired to eliminate the excessive glare without unduly screening the light rays.

One object is to provide in a device of the type indicated, a frame the diameter of which may be varied to conform to the lens of the lamp upon which it is to be fitted, a plurality of vanes extending transversely of the frame and designed to eliminate the glare or modify the direct rays, with a centrally located adjustable element, of U-shaped configuration in cross section, this element last named being designed to direct certain of the rays horizontally, or nearly so, or to direct them downwardly, as occasion may require.

With the foregoing and other objects in view, the invention consists in the novel construction, combination, and arrangement of elements hereinafter described and claimed.

In the drawings, Figure 1 is a view in elevation; Fig. 2 is a view in vertical transverse section; Fig. 3 is a horizontal section.

In carrying out my invention, I provide a ring shaped member 10, the ends of which are connected by an adjustable coupling 12, whereby the diameter of the ring may be varied to suit the lamp to which it is to be applied.

Extending across the ring and having their end portions connected therewith, is a plurality of vanes 15, these vanes being wider at the center than at the ends and being deflected with reference to a plane cutting the plane of the frame perpendicularly. The purpose of these vanes is to modify certain of the rays and eliminate the glare otherwise resulting from the use of a high powered lamp or light.

The central element is of loop form, or of U shaped configuration in cross section, being made wider at portions thereof intermediate of the ends, than at the ends proper. The end portions are designated 20, the side portions deflected as shown are designated 21, and the central curved portion also deflected as shown, is designated 22.

An adjusting device 25 is connected with the portion 22 and with the frame, this adjusting device permitting of the shifting of the U shaped element in order to direct the rays downwardly, or directly ahead, as may be desired. The adjusting device comprises a plurality of elements having threaded connection, and by increasing the length of this adjusting device, upon rotating one of the elements, the central U shaped member is bowed outwardly with reference to the frame, for the purpose specified.

The ring or frame 10 is covered with rubber tubing, and the vanes and ends of the U member are conveniently spaced on the frame by cutting the tubing, designated 27, into lengths corresponding with the distance between individual vanes.

This device is intended to comply with the requirements with reference to the use of high powered lamps emitting excessive glare, within the limits of cities and towns, without diminishing the efficiency of the lamps in any important degree.

What I claim is:

1. In a device of the class described, a frame, a plurality of vanes extending across the frame and deflected from a plane passing through the frame perpendicularly with reference to the plane of the frame, and an intermediate adjustable vane having its surface deflected with reference to the plane first named.

2. In a device of the class described, a frame, means for varying the diameter thereof, a plurality of vanes extending across the frame, for modifying the light rays, and tubular means encircling the frame and serving to space the vanes from each other.

3. In a device of the class described, a frame, a plurality of vanes extending across the frame and having their surfaces deflected with reference to a plane cutting the frame perpendicularly, and a centrally located element of U formation and having

flaring sides said element last named being adjustable for deflecting the rays of a lamp horizontally or downwardly.

4. In a device of the class described, a frame, a plurality of vanes extending across the frame, tubular means encircling the frame element circumferentially, a centrally located element of U formation having flared sides, and means for adjustably connecting the element last named with the frame.

In testimony whereof I affix my signature.

GURNIE MATTOX.