E. McPEEK.

HEADLIGHT DIMMER.

APPLICATION FILED MAR. 17, 1921.

1,413,415. Patented Apr. 18, 1922.

Fig. 1.

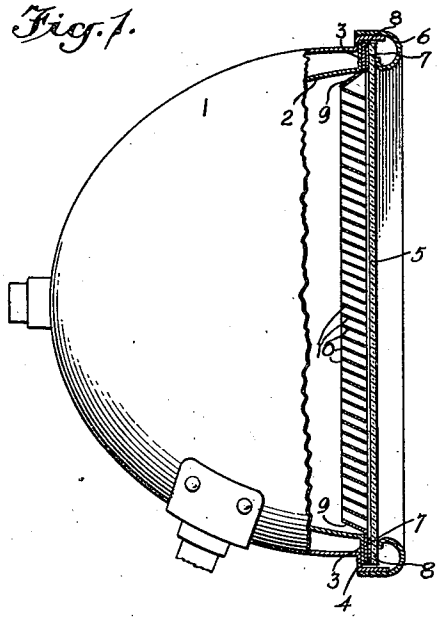


Fig. 2.

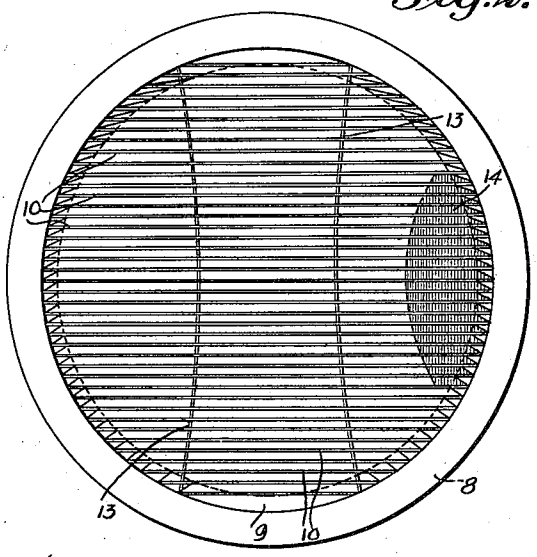


Fig. 4.

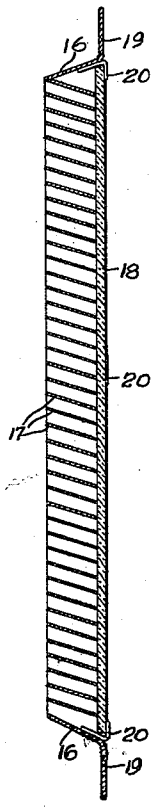


Fig. 3.

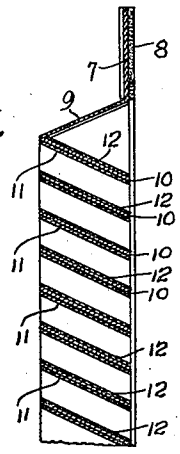
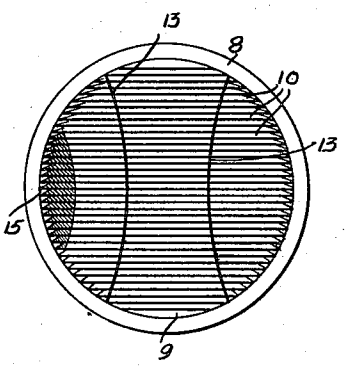


Fig. 5.



WITNESSES

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HEADLIGHT DIMMER.

1,413,415. Specification of Letters Patent. Patented Apr. 18, 1922.

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To all whom it may concern:

Be it known that I, EDISON McPEEK, a citizen of the United States, and a resident of Sardis, in the county of Monroe and State of Ohio, have invented a new and Improved Headlight Dimmer, of which the following is a full, clear, and exact description.

This invention relates to improvements in headlight dimmers, an object of the invention being to provide a dimmer, which will serve to diminish the blinding rays of light which are thrown up from a headlight and which serve to confuse and to impair the vision of the driver of an approaching car.

A further object is to provide a dimmer, which will accentuate and increase the rays of light which are thrown on the road directly in front of a car so that a full road illumination is had without unnecessary glare.

A still further object is to provide a dimmer, which may be quickly applied to various forms of headlights now on the market, which will be simple and practical in construction, strong and durable in use and comparatively inexpensive to manufacture.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings:—

Figure 1 is a view partly in side elevation, but mainly in vertical section through a headlight illustrating my improved dimmer in applied position;

Figure 2 is a view in front elevation of the dimmer, the dimmer illustrated being intended for use on the right headlight of a car.

Figure 3 is an enlarged fragmentary view in vertical section therethrough;

Figure 4 is a view in vertical section illustrating a modified form of dimmer; and

Figure 5 is a reduced view in front elevation similar to Figure 2 and showing a dimmer for use upon the left headlight of a car.

Referring in detail to the drawings, 1 represents a headlight casing, which supports the usual parabolic reflector 2. The reflector 2 includes at its outer edge, an annular flange 3, overlying and resting against an annular internal shoulder 4 in the casing 1. A lens 5 is ordinarily clamped against the flange 3 by a beaded frame such as 6, hingedly or otherwise connected to the headlight casing.

My improved dimmer includes an outwardly presented annular flange 7 adapted to be clamped between the edge of the lens 5 and the flange 3. A ring of felt or other packing material 8 is interposed between the flange 7 and the edge of the lens 5 to cushion the slight movement of the lens incidental to the vibration of the car.

A tapered ring 9 is integral with the flange 7 and serves to rigidly support the ends of a plurality of transversely disposed parallel metal strips 10. The strips 10 decline appreciably from their rear to their forward edges and form in effect a screen or shutter to keep the glare of a headlight from the eyes of the drivers of approaching cars.

The under faces of the strips 10 which are exposed to the rays of the light from the headlight are treated with a coating of highly polished light reflecting material 11, adapted to reflect the rays of light down on to the road in front of the car. The outer upper surfaces of the strips 10 are treated with a coating of dull light absorbing material 12 to further dim the glare from the lights. The strips may either be painted to produce the desired light reflecting and absorbing surfaces, or some reflecting or absorbing medium such as glass of different colors may be applied to the strips, as indicated in Figure 3. A pair of strengthening ribs 13 attached to all of the strips prevent vibration of the strips.

The ends of the intermediate strips 10 may be painted either green or red, as indicated at 14 and 15 to represent the port and starboard running lights of a ship.

In Figure 4, I have illustrated a slightly modified form of dimmer in which the forward edge of the ring 16 extends beyond the forward edges of the strips 17, so that a lens 18 may be conveniently supported against the strips 17 with its outer face flush with the flange 19. In this instance, brackets or clips 20 are provided around the edges of the ring 16 for retaining the lens in place.

Various slight changes and alterations might be made in the general form and arrangement of the parts described without departing from the invention and hence I do not wish to limit myself to the precise details set forth, but shall consider myself at liberty to make such slight changes and al-

terations as fairly fall within the spirit and scope of the appended claim.

I claim:

In a headlight, a dimmer including a tapered ring, a plurality of horizontal parallel strips extending across and secured at their ends to the ring, an annular external flange around the forward edge of the ring adapted to be clamped between a headlight casing and frame, said strips terminating short of the forward edge of the ring, and means retaining a lens in the ring against the strips and flush with said flange, said means comprising angular brackets arranged around the ring and engageable with a lens.

EDISON McPEEK.