May 19, 1925. 1,538,110

C. A. HARTMANN

AUTO HEADLIGHT DEFLECTOR DEVICE

Filed Feb. 16, 1924

Fig. 1.

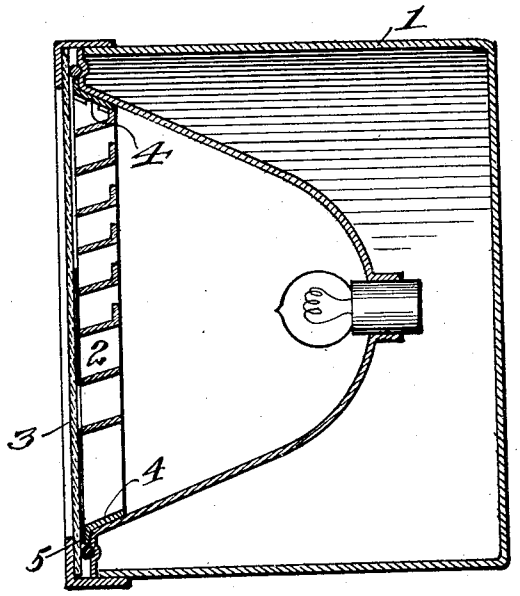


Fig. 2.

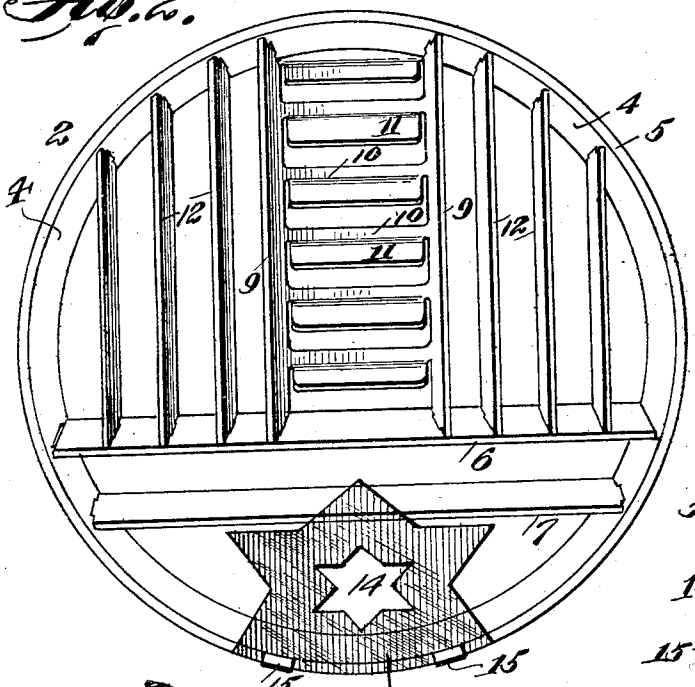


Fig. 3.

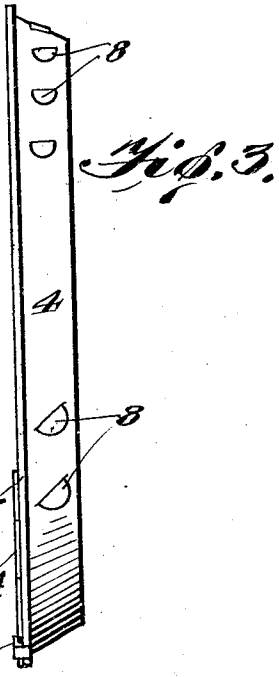
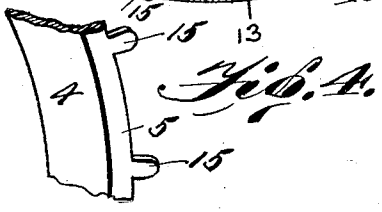


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES A. HARTMANN, OF NEWARK, NEW JERSEY.

AUTO HEADLIGHT-DEFLECTOR DEVICE.

Application filed February 16, 1924. Serial No. 693,278.

To all whom it may concern:

Be it known that I, CHARLES A. HARTMANN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Auto Headlight-Deflector Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an automobile headlight deflector device, and the object of the invention is the improvement of a deflector device, which will give a great amount of light on the road without producing a glare that is confusing to the chauffeur of an approaching motor vehicle.

Another object of the invention is the provision of simple and efficient means for indicating to an approaching chauffeur in an "on-coming" motor vehicle the exact position on a road of a motor vehicle provided with my invention.

This invention is an improvement along the lines of the invention disclosed in my copending application, Serial Number 683,361, filed December 29, 1923.

With these and other objects in view, my invention comprises certain novel combinations, constructions and arrangements of parts as will be hereinafter described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a sectional view of a device constructed in accordance with the present invention, showing the same in an ordinary headlight.

Figure 2 is a view, in front elevation, of a deflector device constructed in accordance with the present invention, while

Figure 3 is a side view of the same.

Figure 4 is a fragmentary, perspective view of the ring-like body of the device.

Referring to the drawings by numerals, 1 designates the case of a lamp in which is positioned by deflector device 2. The deflector device is placed behind the lens 3 as clearly shown in Fig. 1. The deflector device 2 comprises a conical-like body 4 which is provided with an outwardly-extending flat flange 5, formed integral with the outer edge of said body 4.

I position horizontal blades 6 and 7 across the lower part of the body, having the prongs or extensions 8 extending through the body 4 for securing the blades fixedly in position. These blades 6 and 7 slant downwardly from their rear to their front edge, whereby rays from the lamp are thrown downwardly upon the road.

In the center of the body, and arranged in a vertical position, is a slatted device which is formed or stamped from a single piece of metal and which comprises a pair of vertical side blades 9, 9, and connected to these blades are webs 10 from which extend slats 11. These slats 11 project outwardly and downwardly for throwing the rays of the lamp downwardly upon the road. The blades 9 extend outwardly from their rear edge to their front edge, and the same is true with reference to the vertical blades 12, whereby the light rays are spread over the roadway, giving a large area of illumination without any glare occurring on the chauffeur of an approaching motor vehicle. It will, therefore, be seen that I have provided, in a deflector device, means for deflecting the rays downwardly upon the center of the roadway as well as spreading the rays laterally over a broad area of the same.

The blades 9 and 12 are provided with the prongs or extensions 8 the same as blades 6 and 7 for holding the blades in position upon the finished device.

It is desired to provide means upon the lamps, whereby the chauffeur in an approaching motor vehicle can tell at once the exact position of the approaching automobile and this is accomplished by providing a colored transparent strip 13 which is preferably provided in its center, with a star-like opening 14. I use the term "strip" in a broad sense, meaning a piece or body of material which can be of any color. It is to be understood that I preferably place a red strip on the left-hand lamp, as this lamp will be close to the approaching, or passing automobile, and on the right-hand lamp I place a green colored piece or strip so that the approaching chauffeur can readily calculate the position of the car approaching him. Integral prongs 15 extend preferably outwardly from the flange 5 and by bending over these prongs, against the colored transparent means 13 the same can be securely held in position upon the body of the device. These clips 15 constitute clamping fastening means for holding the indicating means upon the body.

I have found from practical experience

that this device is very efficient in operation because it prevents glare, giving a wide illumination upon the road, and at the same time fully advises the occupants of the approaching motor vehicle the exact position of the machine equipped with my improved device, or devices.

While I have described the preferred embodiment of my invention, and have illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates, during the extensive manufacture of the same and I, therefore, reserve the right to make such alterations or changes as shall fairly fall within the scope of the appended claims.

What I claim is:

1. In a headlight deflector construction, a ring-like body, horizontal deflecting strips extending across said body in spaced relation to the lower point thereof and disposed forwardly at a downward incline, vertically disposed deflecting strips extending upwardly from the upper one of said horizontal strips and having their upper ends anchored to said body, the last-mentioned horizontal strip being positioned below the center of the space enclosed by the ring-like body, and horizontal deflector strips extending between certain of said vertical strips and disposed in spaced relation to each other from a point adjacent the upper point of said body to a point adjacent the upper horizontal strip.

2. In a headlight deflector construction, a ring-like body, horizontal deflecting strips extending across the lower portion of said body and extending forwardly at a downward incline, deflecting means positioned above the upper one of said horizontal strips, said deflecting means being formed of a single piece of material and having vertically disposed side strips diverging forwardly and provided with attaching means at their ends for engagement with the upper horizontal strip and body ring cross strips having upper portions attached to the side strips and lower portions bent to extend forwardly at a downward incline and other vertical deflector means positioned at opposite sides of said deflecting means and disposed parallel to the side strips thereof for directing light towards the sides of a road.

In testimony whereof I hereunto affix my signature.

CHARLES A. HARTMANN.