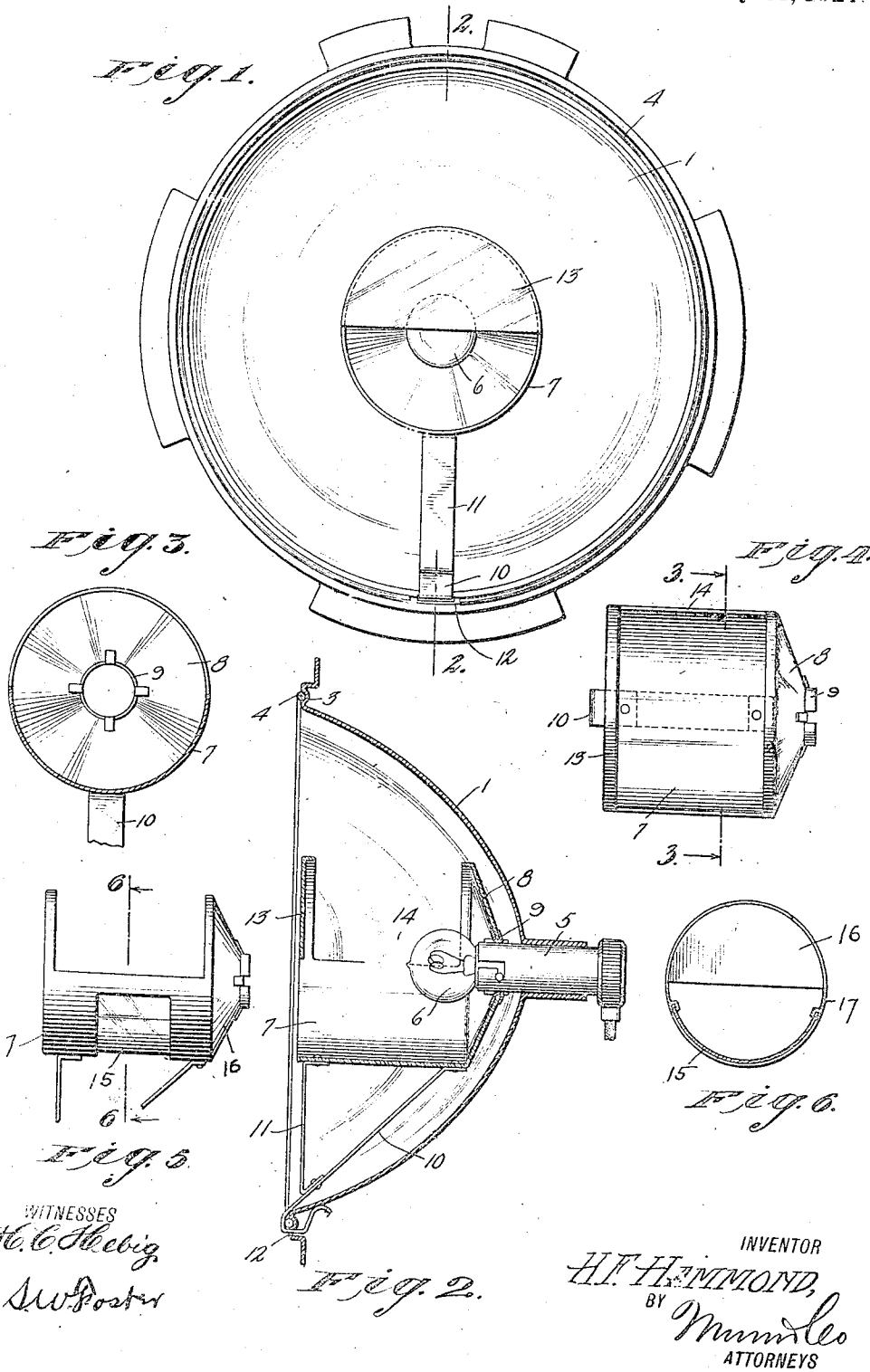


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HEADLIGHT.
APPLICATION FILED MAR. 29, 1920.

1,379,446.

Patented May 24, 1921.



WITNESSES
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Specification of Letters Patent.

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Application filed March 29, 1920. Serial No. 369,723.

To all whom it may concern:

Be it known that I, HARRY F. HAMMOND, a citizen of the United States, and a resident of South Shaftsbury, in the county of Bennington and State of Vermont, have invented a new and Improved Headlight, of which the following is a full, clear, and exact description.

This invention relates to improvements in headlights, an object of the invention being to provide an attachment for ordinary headlights which will operate to prevent glare but allow full road illumination.

A further object is to provide a device of the character stated which is of transparent colored material so as to color the light rays which are thrown upwardly from the headlight and at the same time permit a full glare of uncolored light rays on the road.

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 claims.

In the accompanying drawings—

Figure 1 is a view in front elevation illustrating my invention;

Fig. 2 is a view in section on the line 2—2 of Fig. 1;

Fig. 3 is a view in section on the line 3—3 of Fig. 4;

Fig. 4 is a top plan view of my improved attachment;

Fig. 5 is a view in side elevation illustrating a modification; and

Fig. 6 is a view in section on the line 6—6 of Fig. 5.

1 represents the shell or casing of an ordinary headlight which is provided with a grooved edge 3 for the reception of a gasket 4 against which the lens or frame supporting the lens, both of which are omitted for purposes of clearness, are adapted to snugly fit to render the headlight casing airtight. As is common with headlight casings a socket 5 is provided at the rear and center thereof for the reception of an electric lamp 6.

7 represents my improved device which is in the form of an attachment of general cylindrical shape, but having a conical or tapering inner end 8, the latter provided centrally with a ring or sleeve 9 to fit over the socket 5. A metal strap 10 is secured to

the bottom and inner portion of the device 7 and is strengthened by a brace 11 adjacent its forward end. This strap 10 is adapted to be projected through a slot 12 in the edge of the shell 1 and when bent back against the shell and the lens of the reflector closed, will be securely clamped in place.

My improved attachment is made with an end plate 13 of semi-circular form across the upper half leaving the lower half of the outer end open so as to allow the direct rays from the lamp to pass forwardly and downwardly, but prevent the direct rays from passing upwardly. The top of the device 7 is cut out or open as shown at 14, and this opening or cut-out portion extends substantially halfway around the device.

My improved device or attachment is in reality a light controlling and ray diffusing device and is composed preferably of celluloid, although it may be made of any other suitable transparent or semi-transparent material. The material is preferably green in color, although it is, of course, to be understood that I do not limit myself to the particular color of the transparent material as it may be of any color which will answer the purpose.

When the device is in operative position in a headlight, the light rays from the lamp 6 will pass directly through the open lower portion of the outer end of the device onto the road and will also be deflected by the upper portion of the shell 1 directly down upon the road. The light rays which pass downwardly are softened by the transparent material and colored before they engage the lower reflecting surface of the shell and hence such rays which are deflected upwardly are free from glare. The direct rays from the lamp which pass forwardly and upwardly are diffused and softened by the closed upper end 13 of the attachment.

It will thus be noted that while the rays which pass either directly or are reflected downwardly upon the road are free from the diffusing action of the attachment, the other rays which pass upwardly are all colored and diffused so as to positively prevent glare.

In the modification illustrated in Figs. 5 and 6, I illustrate a form of my device which is composed mainly of metal but is provided in its lower portion with a transparent colored section 15.

With the modified form of invention illustrated in Figs. 5 and 6, the glare is further lessened; the small transparent portion 15 permitting relatively few rays to reach the lower portion of the reflector and to be directed upwardly.

Various slight changes might be made in the general form and arrangement of parts described without departing from the invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. An attachment for headlights comprising a body of general cylindrical form including a tapering inner end adapted to inclose a lamp, said body composed of colored transparent material, said body having a semi-cylindrical cutaway portion in its upper side, and having a semi-circular opening in the lower half of the outer end.

2. The combination with a headlight shell or casing, a socket in the center thereof, and a lamp in the socket, of a hollow cylindrical body, a sleeve or collar at the inner end of the body positioned on the socket, said body

having an open top and an open lower outer end, a metal strip secured to the body and connected to the casing, and a brace connecting the lower portion of the body with said strip.

3. The combination with a headlight shell or casing, a socket in the center thereof, and a lamp in the socket, of a hollow cylindrical body, a sleeve or collar at the inner end of the body positioned on the socket, said body having an open top and an open lower outer end, a metal strip secured to the body and connected to the casing, and a brace connecting the lower portion of the body with said strip, said casing having a slot therein, and said strip having a bendable portion at its outer end projected through the slot.

4. An attachment of the character described, comprising a body of general cylindrical form, said body having a tapering or conical inner end, a ring or sleeve in the center of said inner end, said body having the lower portion of its outer end open, and said body having an opening or cut-out portion between its ends which extends substantially halfway around the body.

HARRY F. HAMMOND.