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J. SPERANZA

1,970,345

LENS

Original Filed May 16, 1932

Fig-1-

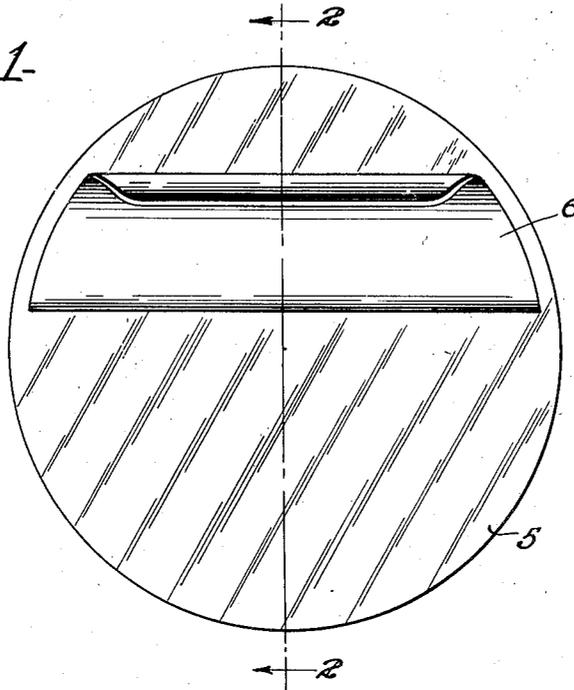
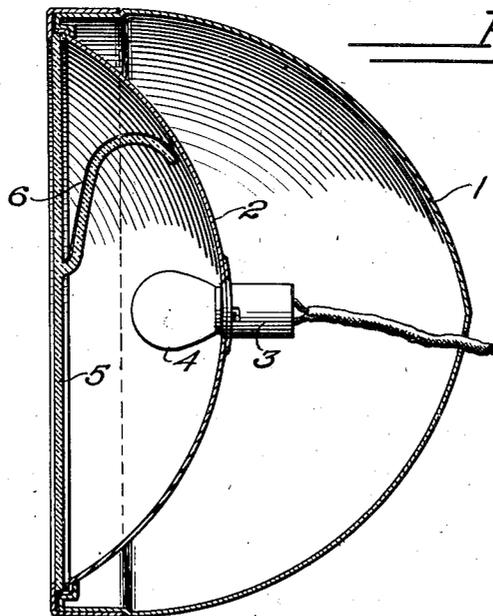


Fig-2-



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WITNESS:
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UNITED STATES PATENT OFFICE

1,970,345

LENS

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Application May 16, 1932, Serial No. 611,652
Renewed January 8, 1934

1 Claim. (Cl. 240—41.4)

This invention relates to lens for headlights and has for the primary object, the provision of an integral hood to the lens extending into the headlight above the illuminating means for preventing undesirable glare or blinding rays of light from shining into the eyes of persons approaching the headlight.

With this and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a rear elevation illustrating a lens constructed in accordance with my invention.

Figure 2 is a vertical sectional view illustrating a lens applied to a headlight.

Referring in detail to the drawing, the numeral 1 indicates a headlight casing in which is mounted a reflector 2 of a conventional type carrying a socket 3 for supporting an electric lamp 4. The front of the casing 1 and the reflector 2 are closed by a transparent plate 5 on which is formed a hood 6 of a material in accordance with the material of the plate. The hood 6 extends upwardly and rearwardly within the reflector and is transversely curved as shown in Figure 2 and has its outer face silvered for forming the inner face thereof as that of a mirror for reflecting light rays downwardly. The side edges and the free end of the hood are spaced slightly from the walls of the reflector so that a small amount of light rays from the electric lamp may pass about the hood to provide a subdued light about the upper half of the headlight. The hood is adapted to

direct the light rays in a fixed downward direction in accordance with the radius of curvature of the hood. The lower end of the hood is in alignment with the top of the electric lamp so that the light rays from the headlight will be directed outwardly and downwardly through the lens below the hood to prevent blinding of approaching persons or undesirable glare from the headlight.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of my invention, as claimed.

Having thus described my invention, what I claim is:—

In combination with a headlight casing having a reflector and an illuminating lamp carried thereby, a transparent panel closing the reflector and arranged in advance of the lamp, a hood of the same material and thickness as that of the plate integral therewith and merging with the latter along a straight line disposed above the longitudinal axis of the casing and above the lamp, said hood having its lower portion from its line of merger with the plate inclined upwardly at an acute angle to the inner face of the plate and having its upper portion curved upwardly and then downwardly from said face of the plate to overhang the lamp, the free edges of said hood being spaced a slight distance from the walls of the reflector and said edges being disposed above the lamp, and a mirror-forming coating applied to the rear face of the hood next to said plate.

JAMES SPERANZA.

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