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O. A. KLEINE

2,146,544

EYESHAD E LENS AND MOUNTING THEREFOR

Filed Feb. 8, 1937

Fig. 1.

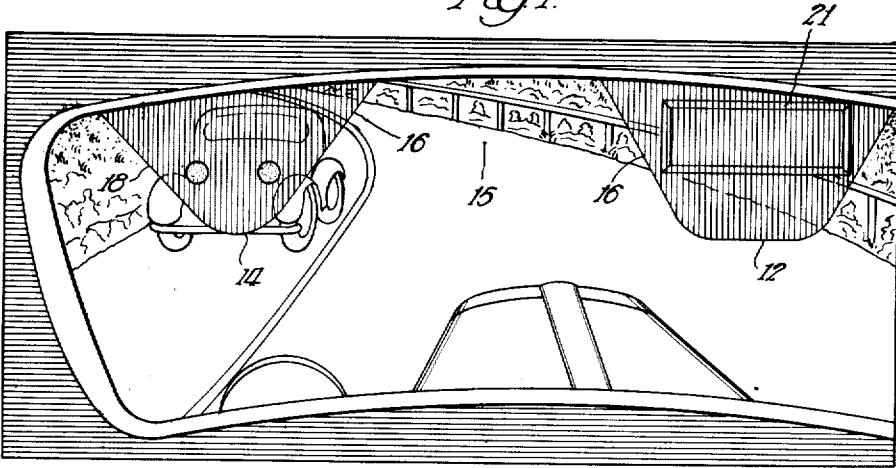


Fig. 2.

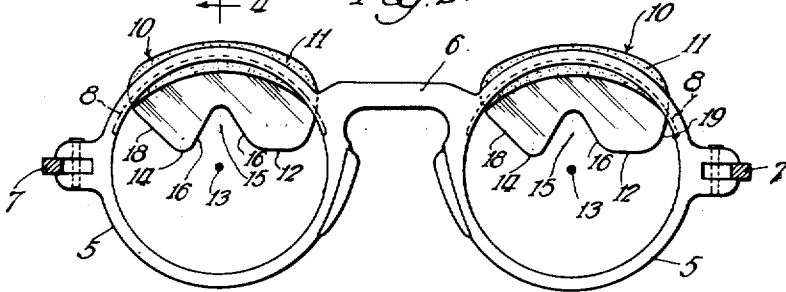


Fig. 3.

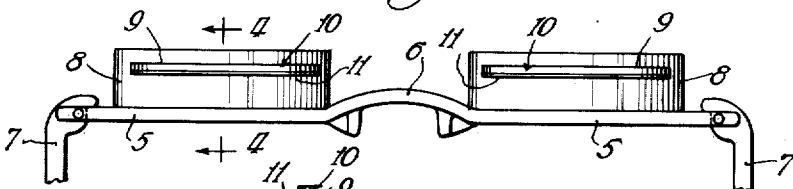


Fig. 4.

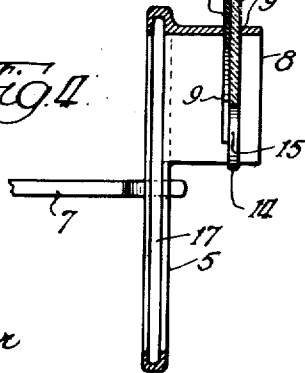
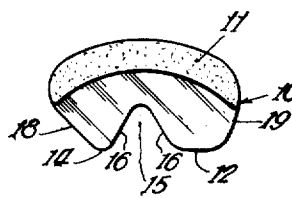


Fig. 5.



Witness
V. Silander

Inventor
Otto A. Kleine
By: Hill & Hill, Attys.

UNITED STATES PATENT OFFICE

2,146,544

EYESHADE LENS AND MOUNTING THEREFOR

Otto A. Kleine, Chicago, Ill.

Application February 8, 1937, Serial No. 124,810

5 Claims. (Cl. 2-12)

This invention relates to eye-shades, and particularly to the type of shade adapted to be worn on the person of the user.

The present invention is especially well adapted for use by motor vehicle drivers, and particularly for driving at night when the extremely bright lights on approaching vehicles are most disconcerting, annoying and even dangerous.

One object of the present invention, therefore, is the production of an eye-shade which will provide a clear vision, eye comfort and, as a consequence, safety to the wearer of an eye-shade constructed in accordance with the present invention.

Another object of the invention is to provide a novel and efficient construction and arrangement of eye-shade, which will effectually shade and protect the user's eyes from the glare of the lights on approaching vehicles, and at the same time, permit of a clear unobstructed view of the road ahead.

Another object of the invention is to provide a novel construction and arrangement of eye-shade, which, while protecting against lights approaching from the front and permitting a clear view of the road ahead, will also provide efficient and desirable protection for one's eyes from the reflected light in one's own rear-view mirror caused by lights approaching from the rear, which is almost as annoying and fraught with possibly as much danger of temporarily blinding a driver, as is the direct glare of lights approaching from the front.

Another object of the invention is to provide a novel form of eye-shade which will amply protect the eyes against both direct and reflected light, and at the same time permit ample unrestricted view in a forward direction and laterally or to the sides of the wearer.

A further object of the invention is to provide a novel arrangement whereby the shading elements for the respective eyes may be adjusted independently of each other and with respect to the individual eyes in a manner to best suit the particular physical characteristics of the person by whom the shades are intended to be worn.

A still further object of the invention is to improve devices of the character described in sundry details hereinafter referred to and particularly pointed out in the appended claims.

One embodiment of the present invention is shown for illustrative purposes in the accompanying drawing, in which:

Fig. 1 is a view of a highway and approaching car as seen by a person using eye-shades embodying features of the present invention;

Fig. 2 is an elevational view of my improved eye-shade as viewed by the user thereof, and

illustrating a device embodying features of the present invention;

Fig. 3 is a plan view of the structure illustrated in Fig. 2;

Fig. 4 is a sectional elevational view of the structure illustrated in Figs. 2 and 3, and taken substantially as indicated by the lines 4-4 thereof; and

Fig. 5 is a face view of one of the lenses shown in Fig. 2, and forming a part of the present invention.

This invention, as previously mentioned, relates to eye-shades, and is an improvement on the structure disclosed in my co-pending application for Eyeshade, filed July 29, 1935, Serial No. 33,679.

The present invention, as illustrated in the accompanying drawing, comprises a pair of eye glass bows 5 connected together by a bridge piece 6, and shown, in the present instance, as provided with temples 7 adjacent their respective outer side portions.

Each of the bows 5 is shown, in the present instance, as provided with a forwardly extending projection 8 formed integrally therewith and having an elongated slot 9 formed therein and adapted to adjustably receive a relatively thin substantially flat lens, indicated as a whole by the numeral 10 having a shaded portion shown, in the present instance, as covering the entire lens.

For securely retaining the lens 10 in various positions of adjustment within the slot 9, a pad 11 of suitable friction material such, for example, as rubber, cork or the like, may be secured to one or both flat sides of the lens 10 in a manner to cooperate with a portion of the projection 8 adjacent the slot 9.

Each of the lens 10 of the present invention is formed, preferably, of a transparent material such, for example, as a glass, Celluloid or the like, and is provided with a shaded portion shown, in the present instance, as covering the entire lens, the lower edge of the shaded portion or lens being irregular and having a substantially straight portion 12 adjacent one end portion of the lens intended to be positioned in a substantially horizontal plane and to the right side of the eye pupil, indicated at 13 (Fig. 2), when the eye-shade is in use, said edge also having a downwardly projecting bluntly pointed portion 14 adjacent the opposite end portion of the lens, said pointed portion 14 extending preferably to approximately the line of the horizontal straight portion 12 and positioned to the left of the pupil 13 when the eye-shade is in use.

The lens 10 is also provided along its lower edge with a recess 15 having, preferably, inclined sides 16 and shown, in the present instance, as extending a substantial distance above the ad-

8 jacent lower edge portions 12 and 14 of the lens
to provide a clear view in front of the eye of the
user and between the shaded portions of the
lens at opposite sides of the recess. By refer-
10 ence to Fig. 1, it will be noted that the shaded
portion above the point or edge portion 14 pro-
tects the eyes of the user against glaring head-
lights approaching from the front, while the
shaded portion above the edge 12 protects the
15 user against reflections, in his own rear-view
mirror 21 (Fig. 1), of head-lights approaching
from the rear.

If desired, each of the bows 5 may be provided
with an internal annular groove 17 for receiving
15 the lens of ordinary glasses, which one may be
required to wear, and the lens 10 may be cut
away adjacent their respective end portions as
indicated at 18 and 19 to permit unobstructed
lateral vision of the user.

20 It will be observed from the foregoing descrip-
tion that by reason of the arrangement of the
lens 10 whereby the user may look below the
irregular lower edge of the lens, a clear view of
the road ahead is readily obtained, and that upon
25 the approach of a car from the opposite direc-
tion, the slightest tilt of the head forwardly or
downwardly will bring the shaded portion of the
lens above the bluntly pointed edge portion 14
between the eyes of the user and the head lights
30 of the approaching car, as illustrated in Fig. 1
of the drawing, and that by reason of the recess
15, a clear view of the road ahead is also avail-
able. It will be observed also that by reason of
the cut away edge portions 18 and 19, an unob-
35 structed view of the edge of the road is obtained.
While the lenses are in position to protect the
eyes of the user from approaching head lights,
it will be noted that the shaded portion of the
lens above the edge 12 also protects the user
40 from reflected lights in his own rear-view mirror,
indicated at 21 in Fig. 1 of the drawing.

It will be noted also that by reason of the
adjustability of the lens within the frames or
bows 5, the shaded portions and edge contours
45 of the lens in front of the respective eyes may
be properly adjusted for merging the shaded
portions of the lens in a manner to combine the
shaded areas produced thereby into one, and
after being properly adjusted, the character of
50 the friction material will retain the lens in fixed
position with respect to the bows or support.

It will be understood that the present inven-
tion may be adapted to eye glasses normally worn
55 by an individual by merely supporting the lens
retaining portions on bows of one's own eye
glasses or spectacles as described in my copend-
ing application above-referred to.

Obviously, the present invention is not lim-
ited to the concise construction and arrangement
60 shown and described as the same may be various-
ly modified. Moreover, all the features of the
present invention need not be used conjointly,
as the same may be used to advantage in vari-
ously different combinations and sub-combina-
65 tions.

What I claim as new and desire to secure by
Letters Patent is:

1. In an eye-shade, the combination of a pair
of connected eye-glass bows having slots formed
70 therein, a pair of transparent shaded lenses
mounted, respectively, in said slots, the lower
edges of said lenses being intended, normally, to
be positioned above the horizontal plane of vision
when in use, each of the lower edges of said
75 lenses having a substantially straight portion to

the right of the eye pupil, a bluntly pointed por-
tion to the left of the pupil extending to adjacent
the line of said straight portion, said edge also
having a recess formed therein substantially
8 straight ahead of the eye pupil and between the
straight and pointed portions at opposite sides of
said recess.

2. In an eye-shade, the combination of a pair
of connected eye-glass bows, projections thereon,
said projections having slots formed therein and
10 extending substantially parallel to the plane of
said bows, a pair of transparent shaded lenses
adjustably mounted, respectively, in said slots,
the lower edges of said lenses being intended,
normally, to be positioned above the normal plane
15 of vision when in use, each of the lower edges of
said lenses having a substantially straight por-
tion to the right of the eye pupil, a bluntly point-
ed portion to the left of the pupil extending to
adjacent the line of said straight portion, said
20 edge also having a recess formed therein pro-
vided with inclined sides and extending a sub-
stantial distance above the adjacent lower edge
portions of the lens to provide a clear view be-
tween the shaded portions at opposite sides of
25 said recess.

3. In an eye shade, the combination of a pair
of connected eye-glass bows, forwardly extending
projections thereon, said projections having slots
formed therein extending substantially parallel
30 to the plane of said bows, a pair of relatively
thin flat-sided transparent shaded lenses ad-
justably mounted, respectively, in said slots, fric-
tion material on a flat side of said lenses and
engageable with a portion of said projections ad-
35 jacent a portion of said slots for retaining the
lenses in adjusted position therein, the lower
edges of said lenses being intended, normally, to
be positioned above the horizontal plane of vision
when in use, each of the lower edges of said
40 lenses having a substantially straight portion to
the right of the eye pupil, a bluntly pointed por-
tion to the left of the pupil extending to adja-
cent the line of said straight portion, said edge
also having a recess formed therein provided
45 with inclined sides and extending a substantial
distance above the adjacent lower edge portions
of the lens to provide a clear view between the
straight and pointed portions at opposite sides
of said recess.
50

4. In an eye-shade, the combination of a pair
of connected eye-glass bows having slots formed
therein extending substantially parallel to the
plane of said bows, a pair of relatively thin sub-
55 stantially flat-sided transparent shaded lenses
adjustably mounted, respectively, in said slots,
and a friction material secured to a flat side of
said lenses and engageable with a portion of
said bows adjacent a portion of said slots for
60 retaining the lenses in adjusted position therein.

5. In an eye shade, the combination of a pair
of connected eye-glass bows having slots formed
therein extending substantially parallel to the
plane of said bows, a pair of relatively thin flat-
65 sided shade members adjustably mounted, re-
spectively, in said slots, friction material on one
flat side of said members engageable with a por-
tion of said bows adjacent a portion of said slots
for retaining the members in adjusted position
therein, each of the lower edges of said mem-
70 bers having a bluntly pointed portion and in-
clined side portions extending outwardly and
above said lower edge portion of the members
to provide a clear view at opposite sides thereof.