Sept. 14, 1948. C. W. G. LAING 2,449,303

VISOR

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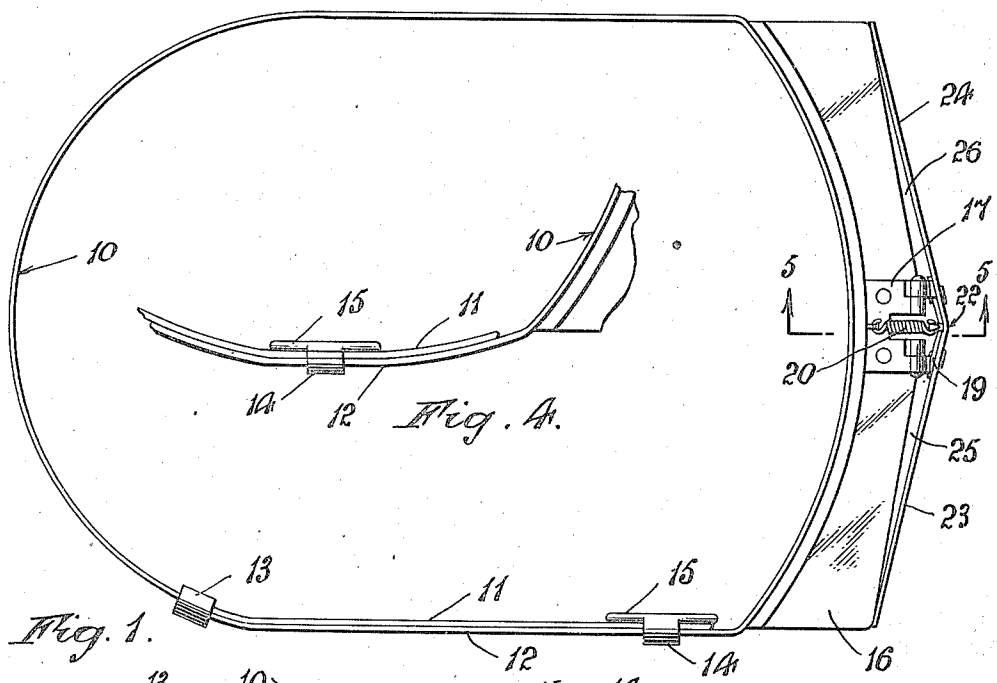


Fig. 4.

Fig. 1.

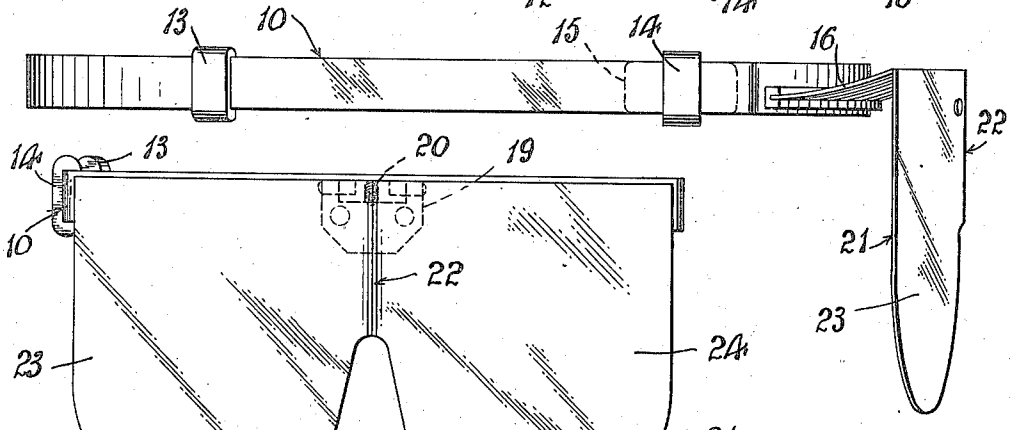


Fig. 2.

Fig. 3.

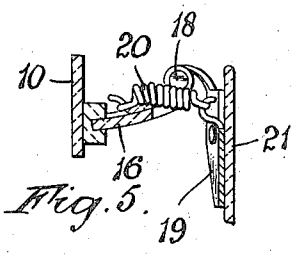


Fig. 5.

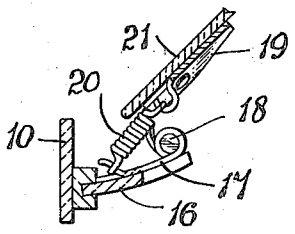


Fig. 6.

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2,449,303

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Application January 30, 1946, Serial No. 644,222

4 Claims. (Cl. 2—14)

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This invention relates to visors suitable for use either indoors or outdoors as by office workers or sportsmen and has for its object to provide a simple and efficient device which may be readily applied to and removed from the head and in which the shade or visor proper may be quickly adjusted to a position before the eyes or to a position elevated above the eyes when its shading effect is not desired.

More particularly, the said invention contemplates a combination with an adjustable head band of a forwardly extending shelf supporting a hinged vertically swingable shade or visor proper with snap means for holding the shade in its lowered and in its raised positions.

A further object is to provide for a form of shade in such a device suspended from a central position and formed in such manner that despite relative lightness of the shade, operating pressure exerted thereagainst any convenient point will be adequately transmitted to the hinge to insure the required and positive operation of the movement operation of the said shade upwardly or downwardly as the case may be.

A further object is to provide a form of mounting for the shade on the head band which will be simple and effective in operation and afford adequate support therefor in all positions of adjustment.

A still further object is to provide a simple means of locking the head band in positions of adjustment to suit the particular head size of the wearer.

Still further objects or advantages additional or subsidiary to the aforesaid objects or resulting from the construction or operation of the invention as it may be carried into effect will become apparent as the said invention is hereinafter further disclosed.

In carrying the said invention into effect I may provide the novel construction and arrangement of parts hereinafter described by way of example having reference to the accompanying drawing wherein:

Figure 1 is a plan of a visor device embodying the said invention;

Figure 2 is a side elevation of the same;

Figure 3 is a front elevation of the same;

Figure 4 is a fragmentary detailed plan view illustrating the adjustable head band locking means;

Figure 5 is a detailed cross-section illustrating the hinge construction and taken on a plane indicated by the line 5—5 in Figure 1; and

Figure 6 is a similar view to Figure 5 illustrating the hinge parts in the raised position of the shade.

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Similar characters of reference indicate similar parts in the several figures of the drawing.

10 indicates, in general, a headband of flexible material having overlapping end portions 11 and 12 which when not in actual use may be substantially straight, the end portion 12 being provided with a slide loop 13 encircling the portion 11, and a further slide loop 14 encircles both the portions 11 and 12 of the headband.

The slide loop 14 is shown as also being provided with an elongated pad of relatively stiff material 15 extending lengthwise along the inner face of the said portion 11 of the headband in such manner that, when the said headband is applied to the head of the wearer and the side portions thereof are accordingly bowed outwardly to conform to the shape of the head, the said pad 15 will offer such resistance to the bowing as to exert pressure between the overlapping portions of the band and thereby frictionally lock them against relative slippage. Thus, when the band is adjusted to the head and then placed upon the head, it will remain in such adjustment and not become loose while being worn. The said slide loop 14 may or may not be actually attached to one or other of the end portions 11 and 12 and, as illustrated, it is slidable upon both of them so that it may be brought to any position therealong which may be desired.

Extending from the front portion of the headband is a shelf 16 which carries in an intermediate position thereon a hinge element or bracket 17 having pintles 18 carrying a second hinge element or bracket 19 for upward and downward swinging action. A spring 20 connects these two brackets in such manner that said spring passes beyond the axis of the pintles as said bracket 19 is swung upwardly and downwardly, so that the said spring tends to hold the said bracket in either its upwardly or downwardly swung position in a manner well-known and obvious from an examination of Figures 5 and 6 of the drawing.

The said bracket 19 is mounted on the upper central portion of a shade or visor proper, generally numbered 21, which I prefer to bend along the vertical center 22 to provide wings 23 and 24 disposed at an obtuse angle one to the other, as clearly shown in Figure 1, and preferably so related to the front edge of the aforesaid shelf 16 as to provide openings 25 and 26 between the edge of the shelf and the back of the visor or shade when in its lowered position as is also clearly shown in the said Figure 1. This arrangement

admits of the shelf operating as a stop for the outer marginal portions of the wings of the said shade when in such lowered position whilst providing a ventilating opening between the said shelf and the said shade throughout the major width thereof.

While the wings 23 and 24 are preferably flat, they need not necessarily be precisely so; but it is intended that they shall extend somewhat rearwardly from the centrally disposed hinge so that pressure exerted on either edge forwardly of the shade to lift it will be efficiently transmitted to the hinge for that purpose and any tendency of the material of the wings to bend outwardly instead of moving as a whole will be avoided.

This invention may be developed within the scope of the following claims without departing from the essential features of the said invention as it may be carried into effect and it is desired that the specification and drawing be read as being merely illustrative of a practical embodiment of the invention and not in a strictly limiting sense.

What I claim is:

1. In a device of the character described, a head band, a shelf extending forwardly of and about a frontal portion thereof, said shelf being provided with angularly related forward edges converging towards the center of said shelf, a snap hinge affixed to said shelf intermediate its ends, and an eye shade supported by said hinge adapted to swing vertically from a position in front of the wearer's eyes to a position removed from the line of vision, said eye shade being bent along a central area to form angularly related portions of a lesser angle than the angularity of said converging shelf edges and the angular apices of said shelf and said eye shade being spaced apart to an extent whereby the end portions of said eye shade will engage the shelf at points remote from the hinge when said eye shade is in the line of vision so as to support the eye shade at the outer areas thereof.

2. In a device of the character described, a head band, a forwardly and upwardly projecting shelf extending from a frontal portion of said head band, said shelf being curved at its rear edge to conform to the circular shape of said head band and having front edges converging towards the center of said shelf, a snap hinge affixed to the central portion of said shelf, and a combined eye shade and protector connected to said hinge to swing vertically to and from the user's line of vision, said eye shade being bent centrally at a point coincident with said hinge to provide angularly related side portions of a lesser included angle than the included angle of said forward shelf edges and the angular apices of said shelf and said eye shade being spaced apart to an extent whereby the side portions will contactually engage the shelf at points remote from said hinge when the eye shade is in a vertical position and in the line of vision.

3. In a device of the character described, a head band, a shelf projecting forwardly from the head band and having straight converging forward edges extending towards the center thereof, a snap hinge affixed to the center portion of said shelf having its hinge axis disposed above the plane of said shelf, and a combined eye shade and protector supported by said hinge to swing vertically into and out of the line of vision, said combined eye shade and protector being angularly bent along a central area coincident with said hinge to form angularly related side portions, the included angle of the side portions being smaller than the angularity of the converging shelf edges and the angular apices of said shelf and said eye shade being spaced apart to an extent whereby the free end of said side portions will contactually engage the shelf and limit downward swinging movement of said combined eye shade and protector.

4. In a device of the character described, a head band, a shelf projecting forwardly of said head band having straight front edges converging toward the center thereof, a hinge mounted centrally of said shelf, a shield supported by said hinge for vertical swinging movement for alternate use as an eye shade and eye protector, the hinge axis of said shield being disposed above the shelf so that said shield will move toward and away from said shelf during swinging movement of said shield, said shield being angularly bent along a central area coincident with said hinge to provide angularly related portions on each side of said hinge and a spring having one end connected to said shelf and the opposite end connected to said shield to swing to and from the hinge axis on each side thereof, the angularity of said shield being of a smaller included angle than the included angle of said shelf and the angular apices of said shelf and said shield being spaced apart to an extent whereby end portions of said shield will contactually engage the converging edges of the shelf when the shield is swung downwardly to thereby limit the downward swinging movement of said shield and to facilitate said shield being supported in a position in the line of vision.

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