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GOGGLES

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Fig. 1

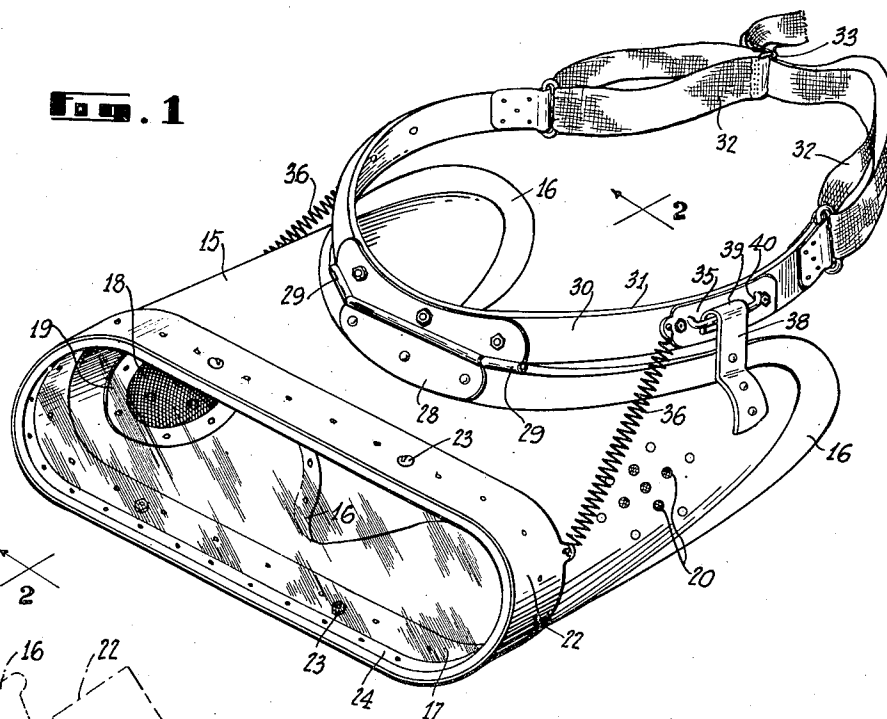
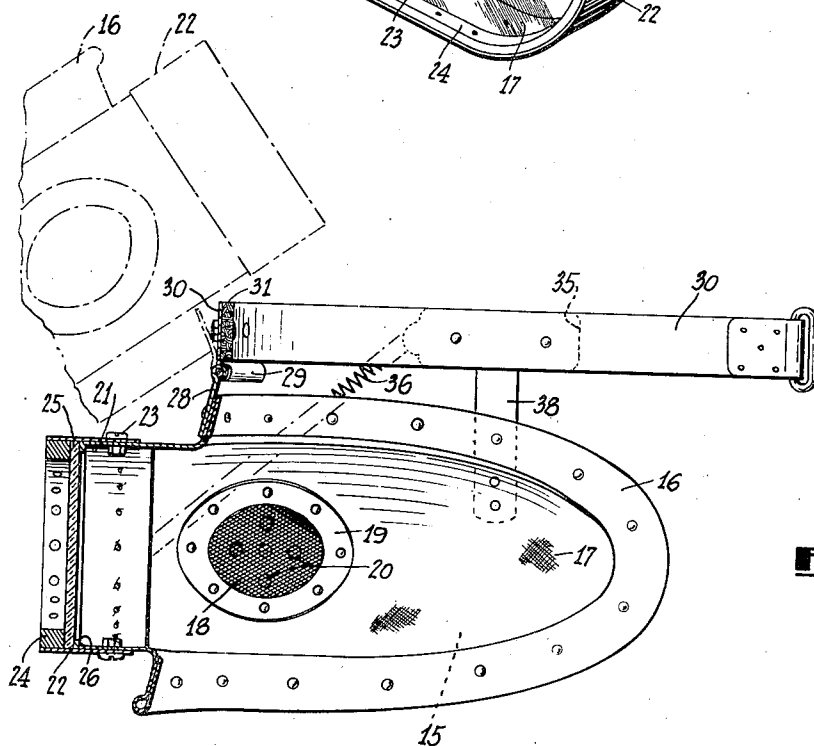


Fig. 2

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5 Claims. (Cl. 2-14)

This invention relates to devices for protecting human eyes from damage by flying fragments of material, forced from a mass by abrasion, concussion, explosion, etc., and also from excessive bright, blinding light.

An object of the invention is to provide an instrumentality having a frame containing a single wide lens extending unbrokenly as a unit from side to side of the device.

A further feature is in the provision of a two part frame, hingedly connected in such manner that the lens carrying portion may be turned from normal operative position to a raised in-operative position, latch means also being provided to positively retain the lens portion when operatively disposed.

Another purpose is to produce a guard that positively protects the eyes and adjacent portions of the face, permits the interposition of a color screen absorbent of actinic light rays, affords effective ventilation, is easily applied or removed, and is inexpensive to construct.

These advantageous objects are accomplished by the novel construction, and combination and arrangement of parts hereinafter described and illustrated in the accompanying drawing constituting a component of this disclosure, and in which:

Figure 1 is a perspective view of an embodiment of the invention as assembled for use.

Figure 2 is a central longitudinal sectional view taken on line 2-2 of Figure 1.

Referring in detail to the drawing the numeral 15 designates in general a visor shaped bolster frame or casing, a flattened tube in cross section, preferably made of metal or other noninflammable material, its inner edge or base shaped in conformity with the facial features, as the forehead, nose and upper portion of the cheeks, and is provided with a cushion-like marginal border 16, as a soft rubber cover.

The frame may or may not have a fabric lining 17 disposed on the inner surface of the casing, and at its opposite narrow edges are fine gauze nettings 18, held by metal rings 19 to cover perforations 20 in the casing.

The front of the casing 15 is extended as at 21, its outer flanged edge being substantially at a right angle with its median plane, and spaced at a distance outwardly beyond the eyes of a wearer, this front being an elongated rectangle; fitted over this open casing is a correspondingly shaped sleeve 22 removably secured by bolts 23 and having fixed at its outer edge an interjacent ring 24.

A lens 25 is held between the flange 26 of the casing and ring 24, thereby providing means for the removal and replacement of the lens, which may be clearly transparent, or of translucent colored material, blue being preferred.

The casing may also be arranged to receive a permanent lens and a colored translucent plate juxtaposed against its rear inner side.

Attached centrally to the upper rear portion of the casing 15 by a hinge 28, disposed horizontally, and having end extensions 29 at a slight angle, is a band 30 having a soft lining 31, to pass over the forehead and be secured firmly thereon by elastic straps 32 attached at its ends to pass over the head, thereto or adjustably held by a buckle 33 or equivalent fastening means.

Thus when the band is adjusted on the head, the visor frame or casing 15 may be tilted upwardly from the face, and the peculiar construction of the hinge elements 28-29 tend to retain it in such position.

Fixed on the curved band 30, near its ends, are plates 35 in which are secured the upper ends of springs 36 connected at their lower ends to the casing element 22 normally operating to maintain the casing and band in close relation.

Fixed on opposite sides of the casing rear ends are snap catches 38, their intumed upper hooked ends 39 adapted to engage over the loops 40 fixed on the band 30, in register with the catches, and which when engaged, hold the adjacent edges of casing and band in juxtaposition, but which are readily released to permit raising the visor frame into an angular position relative to the band.

Having thus described the invention, including the manner of its construction and use, what is claimed as new and sought to secure by Letters Patent, is:

1. An eye protector comprising a casing of oval cross section fitted to the face and having a cushion fixed on the rear edge its front end having an elongated horizontal opening, a lens carrying frame fixed in the opening to extend spacedly in front of both eyes, a band adjustable to the head, a hinge connecting said casing and band at the front, tension springs to draw said casing and band into close proximity at their adjacent edges, loops on opposite sides of said band, and catches on said casing engageable with said loops.

2. An eye protector comprising a rigid hollow casing elliptical in profile and having its rear edge shaped conformably with the upper part of the face including the eyes, nose and brow, a cushion circumambient said rear edge, an elon-

gated projection on the front of said casing, a frame removably engaged in said projection, a single lens carried in said frame disposed adjacently in front of both eyes, means for inserting a colored translucent panel in said frame rearwardly the lens, a head band having means for adjustment, a hinge connecting the rear upper portions of said casing and said band whereby said casing may be raised into an inoperative position, and springs normally urging the casing into operative position.

3. An eye protector comprising a flattened elliptical casing having a base shaped in conformity with the face in the vicinity of the eyes, a frame detachably engaged in the front of said casing, a laterally elongated lens in said frame usable by both eyes, a band disposable over the upper front part of the head, adjustable straps connecting the rear ends of said band, a hinge connecting said band and casing whereby the latter may be tilted upwardly, means to retain said casing in operative position, said means being releasable, and means for ventilating said casing.

4. An eye protector comprising a flattened elliptical casing having a base shaped in con-

formity with the face in the vicinity of the eyes, an elongated lens suited to both eyes held in the front end of said casing, a lining for the casing, means to ventilate the casing, a band for the upper front portion of the head, adjustable straps connecting the ends of said band, a hinge connecting the center of said strap and adjacent portion of said casing, resilient means to urge the edges of said band and casing into intimate contact, and means to releasably maintain the edges in juxtaposition.

5. An eye protector comprising a lens holder having a single lens through which observations by both eyes may be made coincidentally, a base on said holder fitting the face, a hinge on the upper portion of said base, a band adjustable to suit the head and connected by said hinge whereby the lens holder may be raised on said hinge, tension springs fixed on the side portion of said base and band to maintain the base and band in close relation when in normal position and spaced relation when separated, and combined hook and hasps to positively retain said base and band in juxtaposition when in operation.

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