

May 12, 1942.

G. S. MACVAUGH

2,282,334

VISOR

Filed May 20, 1941

2 Sheets-Sheet 1

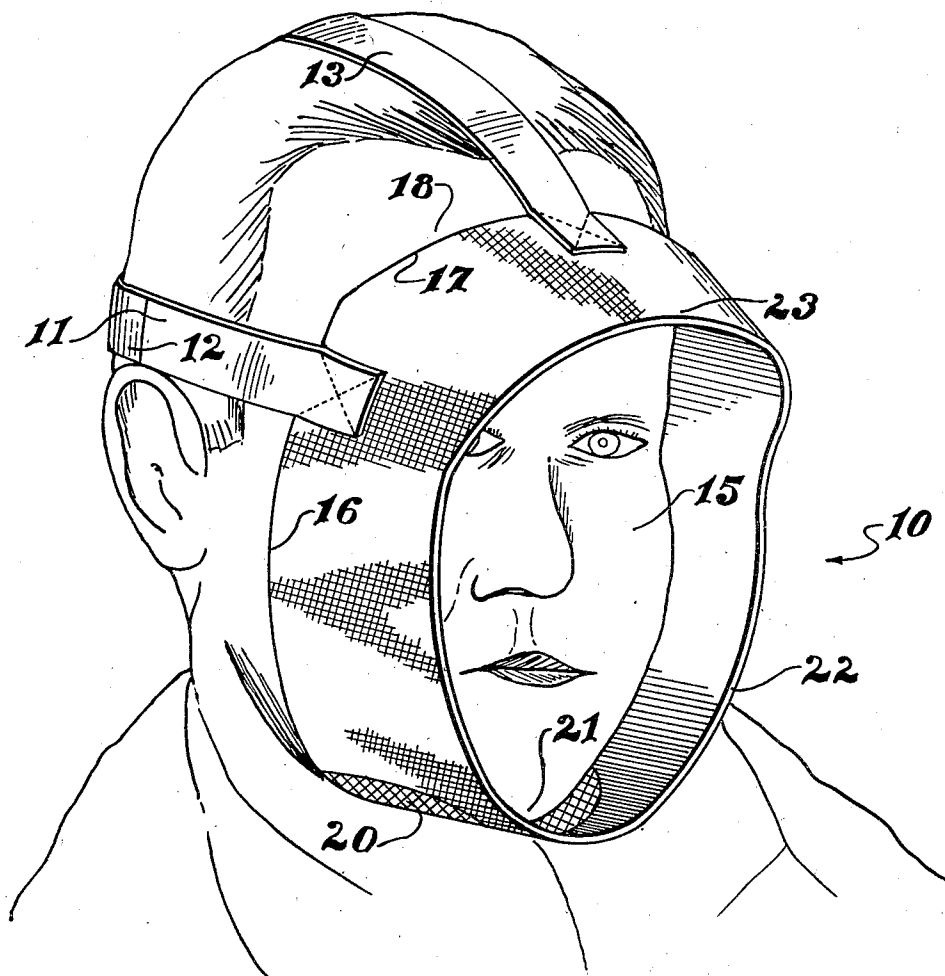


Fig. 1

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2 Sheets-Sheet 2

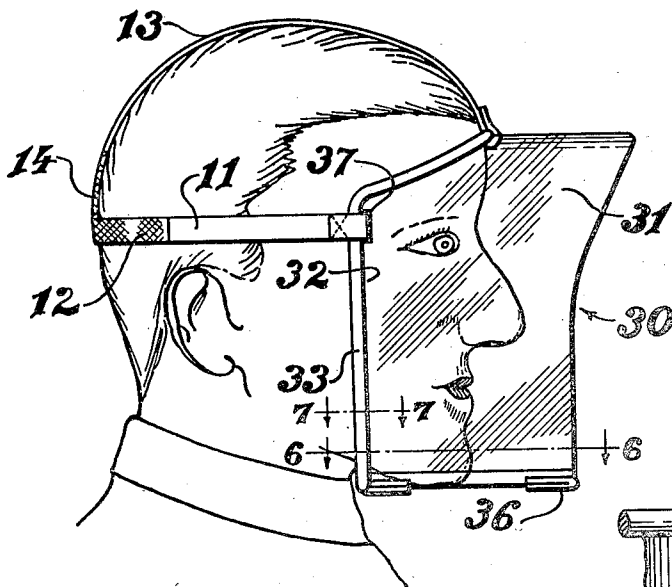


Fig. 5

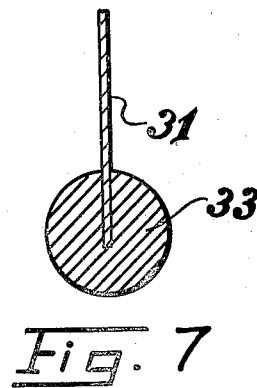


Fig. 6

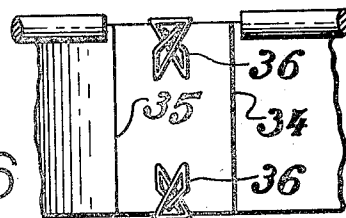
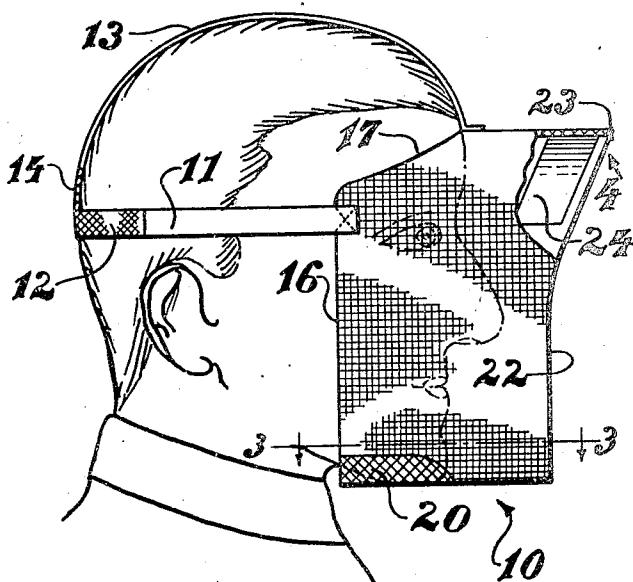


Fig. 2

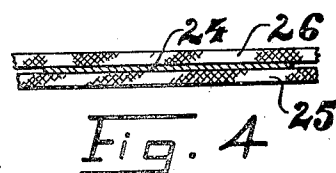
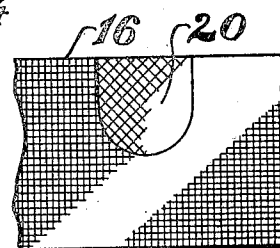


Fig. 3

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UNITED STATES PATENT OFFICE

2,282,334

VISOR

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11 Claims. (Cl. 2—9)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

This invention relates to a visor, and has for an object to provide an improved visor especially adapted for protecting substantially the entire face area.

A further object of this invention is to provide an improved visor that acts as a wind-stopper for protecting the face of a person in an area liable to be exposed to high wind pressures. While especially intended for the use of a lookout on a vessel, it is equally serviceable wherever a person must remain on duty in an area or location where his face would be normally exposed to strong winds and where his duties require that his vision be unimpaired.

A further object of this invention is to provide a visor that protects the whole area of the face as well as the eyes against wind pressure, as contrasted with prior devices which only partially protect the eyes at most, such as illustrated in prior U. S. Patents Nos. 1,199,162, 1,352,156, 1,511,357, and 1,637,092.

A further object of this invention is to provide a visor that in addition to protecting the entire area of the face will not in any way interfere with the wearer making normal use of eye-glasses, binoculars, spy-glasses, or other customary vision aids.

A further object of this invention is to provide a visor that may be made of an opaque material when the wearer's duties are such that forward vision alone is sufficient, and may be made of a transparent material when the wearer's duties are such that wide angle vision is also necessary.

With the foregoing and other objects in view the invention consists in the construction, combination and arrangement of parts hereinafter described and illustrated in the drawings, in which:

Fig. 1 is a three-quarter perspective view showing a wearer using one form of this invention.

Fig. 2 is a profile partly X-ray view of Fig. 1.

Fig. 3 is a detailed view on line 3—3 of Fig. 2.

Fig. 4 is an edge view at the arrow 4 of Fig. 2.

Fig. 5 is a profile view of a modified form of this invention made of transparent material.

Fig. 6 is a detailed view on line 6—6 of Fig. 5; and

Fig. 7 is a sectional view on line 7—7 of Fig. 5.

There is shown at 10 one form of the visor of this invention, shaped as shown and made from heavy canvas or other suitable material. This visor 10 is provided with a strap 11 extending around the back of the head, including an elastic insert 12, and is joined by a center strap 13

over the top of the head, which also includes an elastic insert 14, for removably supporting the visor 10 about the face 15. The rear edge 16 of the visor 10 that abuts the face 15 is cut away as at 17 so as to fit comfortably over the wearer's forehead 18. An elastic insert 20 is provided in the visor 10 beneath the chin 21 to fit snugly and comfortably thereagainst and assist in holding the visor in operative position.

The front edge 22 of the visor 10 is provided at the top with a forwardly extending peak 23, which may be provided with a stiffening reinforcement shown in detail in Fig. 4, consisting of a strip 24 of sheet brass or other suitable material extending between the inner and outer layers 25 and 26 of the canvas of which the visor is made.

In operation, the visor 10 is supported over the cheeks of the wearer beneath the chin 21 and against the forehead 18 by means of the straps 11 and 13. As so positioned, it remains firmly on the wearer, preventing watering of the eyes or discomfort to the face in wind pressures as high as 80 miles per hour, thus enabling a lookout stationed in the crow's nest of a ship to remain on duty without eye or face fatigue, and to make normal use of binoculars or spy-glasses as though he were in a dead calm. In some uses it is desirable that the wearer have wide angle vision as freely as forward vision, such as when the wearer is on sentry duty or operating a motorcycle, or driving a fire truck, for instance. In such case instead of making the visor of heavy canvas, it may be made of any suitable semi-flexible, transparent, plastic, one which is commercially known as "Lucite."

This visor 30, as shown in Figs. 5, 6 and 7, is shaped substantially identical with that shown at 10, and is provided with the same head positioning straps 11 and 13, which are secured thereto by passing through suitable rectangular holes 37. The plastic material 31 has its rear edge 32 embedded or countersunk in a soft rubber beading 33, which beading 33 extends partly under the chin, over the cheek and against the forehead of the wearer, thus providing a tight yet cushioned contact of the visor against the face of the wearer. Inasmuch as it is impractical to provide an elastic chin portion, as in the above described form, the visor is made with overlapping ends 34 and 35, extending under the wearer's chin and adjustably joined together as by steel spring clips 36, for instance, as shown in Fig. 7. Any other suitable form of temporary or permanent joining of these overlapping ends 34

and 35 may be substituted, such as a suitable plastic cement if a permanent joint is desired, or an adhesive if a temporary joining is desired.

When a certain individual is to have a transparent visor assigned to him, a plastic cement may be used to provide a permanent joint after the visor has been adjusted to fit the particular individual. The operation of this form is identical with that of the form above described, except that it will preferably be used in locations where wide angle vision, rather than only forward vision, is desired.

Other modifications and changes in the number and arrangement of the parts may be made by those skilled in the art without departing from the nature of the invention, within the scope of what is hereinafter claimed.

The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

Having thus set forth and disclosed the nature of this invention, what is claimed is:

1. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face.

2. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, the rear edge of the annulus being shaped to fit against the forehead, over the cheeks, and beneath the chin in substantially windproof contact.

3. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, the rear edge of the annulus being shaped to fit against the forehead, over the cheeks, and beneath the chin in substantially windproof contact, and a forwardly projecting peak extending over the eyes.

4. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, said annulus being of heavy canvas.

5. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, the rear edge of the annulus being shaped to fit against the forehead, over the cheeks, and beneath the chin in substantially windproof contact, a forwardly projecting

peak extending over the eyes, said annulus being of heavy canvas, and a reinforcing metal strip within the peak portion of said canvas.

6. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, the rear edge of the annulus being shaped to fit against the forehead, over the cheeks, and beneath the chin in substantially windproof contact, a forwardly projecting peak extending over the eyes, said annulus being of heavy canvas, a reinforcing metal strip within the peak portion of said canvas, and an elastic insert fitting beneath the wearer's chin.

7. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, the rear edge of the annulus being shaped to fit against the forehead, over the cheeks, and beneath the chin in substantially windproof contact, a forwardly projecting peak extending over the eyes, said annulus being of heavy canvas, a reinforcing metal strip within the peak portion of said canvas, an elastic insert fitting beneath the wearer's chin, and elastic strap means secured to said annulus fitting over and around the head of the wearer to support said visor in operative position.

8. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, said annulus being of semi-flexible, transparent, plastic material to permit wide angle vision.

9. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, said annulus being of semi-flexible, transparent, plastic material to permit wide angle vision, the rear edge of said annulus being shaped to fit against the forehead, over the forehead, over the cheeks, and under the chin of the wearer.

10. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, said annulus being of semi-flexible, transparent, plastic material to permit wide angle vision, the rear edge of said annulus being shaped to fit against the forehead, over the cheeks, and under the chin of the wearer, and a soft molding fitted over the forehead and cheek-contacting portions of said rear edge.

11. A full face-protecting wind visor comprising an open vision-permitting forward edge, for-

wardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face, said annulus being of semi-flexible, transparent, plastic material to permit

wide angle vision, the rear edge of said annulus being shaped to fit against the forehead, over the cheeks, and under the chin of the wearer, and an adjustable joint provided in the chin portion of said visor.

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