

E. ALTMAN.
EYE PROTECTOR.
APPLICATION FILED DEC. 8, 1916.

1,282,723.

Patented Oct. 29, 1918.

Fig. 1.

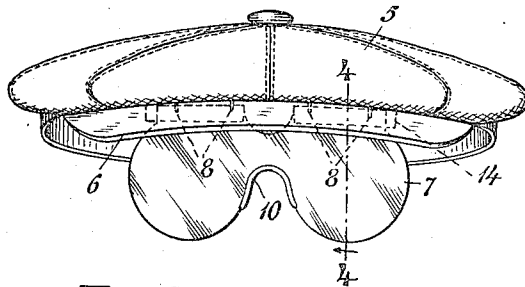


Fig. 2.

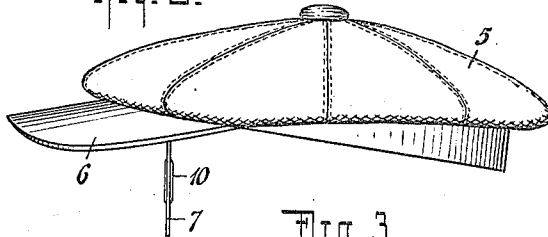


Fig. 3.

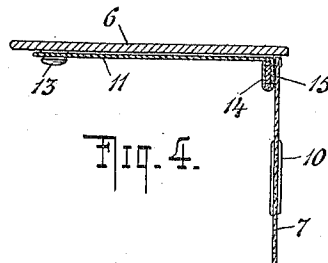
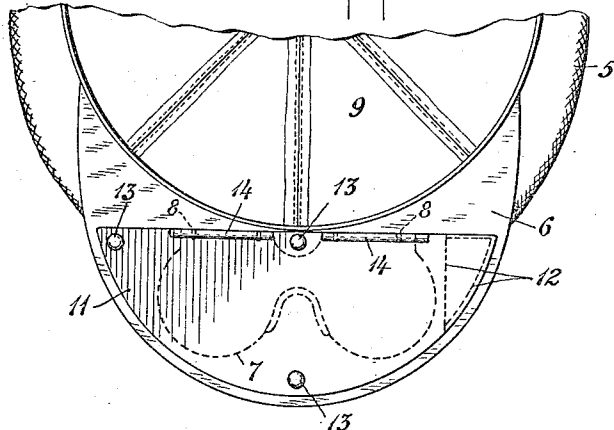


Fig. 4.

WITNESSES

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EYE-PROTECTOR.

1,282,723.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EMIL ALTMAN, a citizen of the United States, and resident of the borough of Brooklyn, county of Kings, city and State of New York, have invented a certain new and useful Improvement in Eye-Protectors, of which the following is a specification.

My invention relates to wearing apparel and more particularly to head coverings such as hats, caps and the like and has for its object to provide such head coverings with a protector for the eyes which may be in the nature of transparent goggles or equivalent devices. A further object of my improvement is to combine the protector with the head covering in such a manner that said protector may be readily brought to an operative position of maximum efficiency and comfort to the wearer or moved to an inoperative position in which said protector is secured so that no part thereof interferes with the vision or the comfort of the wearer. My improvement further contemplates a preferred arrangement in which the means for securing the protector in its inoperative position is constructed so as to substantially cover and conceal said protector in this position thus improving the appearance of the head covering and at the same time protecting the protector against injury. My invention will be fully described hereinafter and the features of novelty will be pointed out in the appended claims.

In the accompanying drawings I have shown my improvement combined with a cap it being understood that this is only an example for the purposes of illustration and description and that said improvement may be combined with equal efficiency with other types of head coverings or hats. In said drawings Figure 1 is a front elevation of the cap showing an example of the eye protector in an operative position; Fig. 2 is a side view thereof; Fig. 3 is an inverted plan view showing the protector in an inoperative position and concealed from view and Fig. 4 is a sectional view on the line 4—4 of Fig. 1.

As shown in the drawings the cap may be of any suitable construction and shape and comprises the body 5 of cloth or other material and the vizor or peak 6 constructed in any well known way and being covered in the customary manner with material corresponding to that of which the body 5 is made. The eye protector 7 which may be

made of any suitable transparent material or constructed in any other desired way to enable the wearer to see through it, is pivoted or hinged to the inside surface of the vizor 6 for instance my means of loops 8 which may be of metal, thread or any suitable material as desired. In some cases the pivotal connection of the protector 7 with the vizor 6 may be otherwise accomplished than as shown while in some instances the said protector 7 may be movable to and from its operative position in other ways than pivotally. In any event the arrangement is such that, in its operative position the protector 7 will depend from and beneath the vizor 6 at a point in front of the usual head opening 9 of the cap or other head covering as shown by way of example in Figs. 1 and 2. The location of the protector 7 in its operative position is such that it will cover the eyes of the wearer, said protector being preferably cut out as at 10 or otherwise shaped to fit over the nose of the wearer and in close proximity to his or her eyes, the construction being always such as to approximately produce this result. The arrangement in all cases is further such that the protector 7 may be moved toward the front of the vizor 6 to an inoperative position beneath and substantially in surface contact with the inside or lower surface of said vizor 6.

Thus, in the illustrated example, the protector 7 may be pivotally moved on the loops 8 from the operative position shown in Figs. 1, 2 and 4 to the inoperative position beneath the vizor 6 as shown in Fig. 3. The direction of movement of the protector 7 from its operative to its inoperative position in this case is upwardly and toward the front of the vizor 6 in the arc of a circle. It will be seen that when the protector 7 is in its inoperative position no part thereof projects into the line of vision of the wearer, said protector as a matter of fact lying against the inner or lower surface of the vizor 6 so as to be practically unnoticeable.

Any suitable means may be utilized for maintaining said protector 7 in its inoperative position; for instance as shown in the illustrated example a flap 11 of cloth or other material preferably corresponding in pattern or design at least, to that of which the cap is made, may be provided. As shown, this flap 11 may correspond in form substantially to the shape of the vizor 6 and

may have its one end permanently attached to the lower or inner surface thereof for instance by stitching 12. When the protector 7 is in its inoperative position, as shown in Fig. 3, this flap 11 extends over the same and thus, in addition to holding said protector in said inoperative position, also substantially covers and conceals the same and at the same time protects said protector 7 from injury. The free portion of the flap 11 may be detachably connected with the vizor 6 by cooperating fastening elements 13, for instance of the glove fastener type, secured to the vizor and flap respectively, it being understood that any other suitable means may be substituted if desired.

When it is desired to bring the protector 7 from the inoperative position shown in Fig. 3 to the operative position shown in Figs. 1, 2, and 4, the fastening elements 13 are first disconnected to permit the flap 11 to be swung downwardly or away from the vizor 6 on the stitching 12. With the flap 11 in this position the protector 7 is free to be swung or otherwise moved to its operative position, after which the flap 11 may be returned to its normal position in surface contact with the lower surface of the vizor 6 and again secured in this position by operatively connecting the fastening elements 13. It will be seen, when the protector 7 is in its operative position as well as in its inoperative position, that the flap 11 does not detract from the appearance of the cap or other head covering but adds a finish thereto, and at the same time conceals, holds and protects the protector as hereinbefore described.

In the preferred arrangement means is also provided for maintaining the protector 7 in its operative position in front of the eyes of the wearer and against any substantial movement away from the eyes. In the illustrated example this means is shown in the form of a tubular projection 14 which extends lengthwise of the flap 11 at its inner longitudinal edge and which may be formed as an integral part of said flap by turning the material thereof upon itself or as a separate element attached thereto. In some cases such tubular projection 14 may be rigid enough for the intended purposes while in other instances a reinforcement 15 of any suitable material such as wire or the like may be inserted in the projection to stiffen it. In any case the projection 14 is so located that when the flap 11 is in its normal position, said projection will lie in front of and preferably in engagement with the protector in the vicinity of the pivotal connection 8. The projection 14, as will be readily apparent will thus interpose a resistance to a swinging movement of the protector 7 in a direction away from the eyes whereby said

protector is maintained in an operative position of maximum efficiency without discomfort to the wearer.

It will, of course, be understood that other equivalent devices may be used with equal efficiency, the illustrated means being simple in construction and arrangement and easily incorporated as a part of the improvement.

When a cap or other head covering including my improvement is worn with the protector 7 in its operative position, the appearance is the same as when separate head covering and eye protectors are worn while the discomforts and irritation to the ears and other parts of the head which are oftentimes present in the latter case are entirely avoided. At the same time the protector 7 when in use, at all times occupies a position of maximum efficiency in which the eyes are fully and completely protected. When in its inoperative position the protector is out of the way and does not interfere with the comfortable wearing of the cap or other head covering and in fact does not touch any portion of the wearer's anatomy. In addition, in the preferred form the protector when not in use is completely concealed and thus has no influence upon the appearance of the cap or other head covering; the latter may be freely handled without any danger of dislocating or injuring the protector. It will of course be obvious that the latter may be constructed in any suitable manner, style, or shape and of any suitable and desirable material.

The improvement does not add materially to the cost of the production of the cap or other head covering and prevents misplacement of the protector, the latter being at all times instantly available when the cap or the like is worn. My improvement will be found useful for automobile drivers, fishermen and others as will be readily apparent, and avoids the necessity for carrying separate goggles or the like which oftentimes are bulky and unsightly.

Various changes in the specific form shown and described may be made within the scope of the claims without departing from the spirit of my invention.

I claim:—

1. The combination of a head covering, a transparent protector for the eyes pivotally connected therewith in front of the head opening, said protector depending from its pivotal connection in an operative position, and being movable upwardly on said pivotal connection to an inoperative position and means depending in front of said protector for maintaining it in its operative position, said means being movably connected with said head covering and movable from in front of said protector to permit it to swing to its inoperative position.

2. The combination of a head covering, a

transparent protector for the eyes pivotally connected therewith in front of the head opening, said protector depending from its pivotal connection in an operative position, and being movable upwardly on said pivotal connection to an inoperative position and means movably connected with said head covering whereby said protector is maintained in its operative position, said means being movable to permit said protector to swing to its inoperative position and being movable beneath said protector to maintain it in said inoperative position.

3. The combination of a cap having a vizor, a transparent protector for the eyes pivotally connected with said vizor, said protector depending from said vizor in an operative position and being pivotally movable upward toward the front thereof to an inoperative position beneath said vizor, a movable flap secured to said vizor and arranged to cover said protector in its inoperative position to conceal same and maintain it in its inoperative position and means for attaching said flap to said vizor.

4. The combination of a cap having a vizor, a transparent protector for the eyes pivotally connected with said vizor, said protector depending from said vizor in an operative position and being pivotally movable upward toward the front thereof to an inoperative position beneath said vizor and a projection depending in front of said protector adjacent to its pivotal connection for opposing an upward movement of said pro-

jector whereby the latter is maintained in its operative position.

5. The combination of a cap having a vizor, a transparent protector for the eyes pivotally connected with said vizor, said protector depending from said vizor in an operative position and being pivotally movable upward toward the front thereof to an inoperative position beneath said vizor, a movable flap secured to said vizor and arranged to cover said protector in its inoperative position to conceal same and maintain it in its inoperative position, means connected with said flap for maintaining said protector in its operative position and means for detachably connecting said flap with said vizor.

6. The combination of a cap having a vizor, protecting goggles pivotally connected with said vizor and shaped to fit over the nose of the wearer, said goggles depending from said vizor in an operative position and being pivotally movable upward toward the front thereof to an inoperative position beneath said vizor, a fabric flap sewed at its one end to said vizor and arranged to conceal said goggles and maintain them in an inoperative position beneath said vizor, means for detachably connecting the free portion of said flap to said vizor and means extending lengthwise of said flap for maintaining said goggles in their operative position.

In testimony whereof I have hereunto set my hand.

EMIL ALTMAN.