

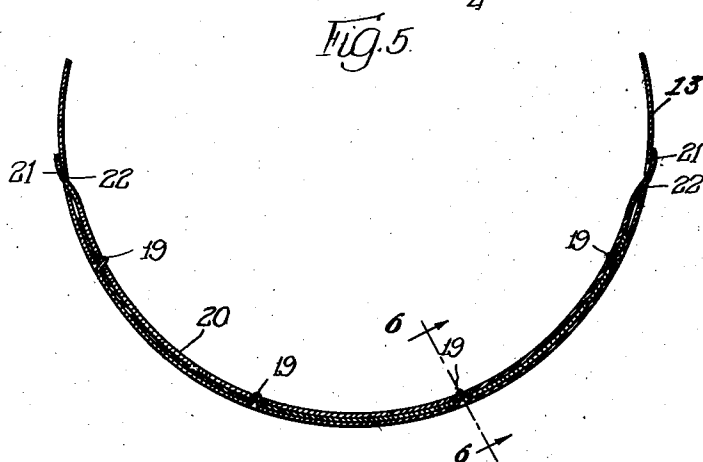
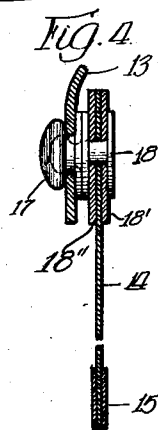
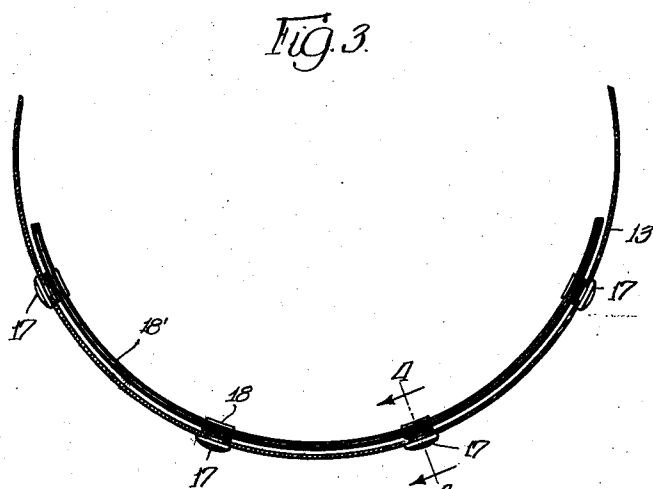
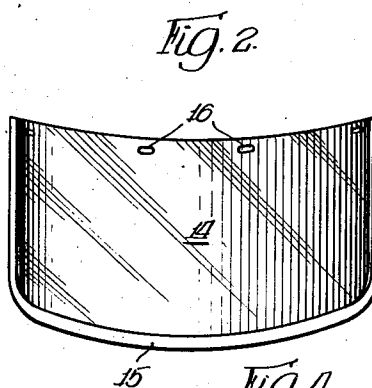
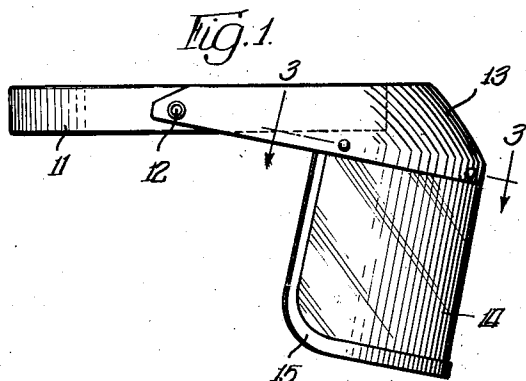
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FACE SHIELD

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FACE SHIELD

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6 Claims. (Cl. 2—12)

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The present invention relates to face shield.

In the use of face shields it is necessary to replace the shield members from time to time as the result of the same becoming damaged, pitted or worn out. Heretofore it has been the practice to provide metallic fastening members which are a permanent part of the shield member, which fastening members interlock with members on the visor or other permanent portion of the shield. When the shield member is thrown away the fastening members are thrown away with the shield member. The fastening members, in and of themselves, involve some expense and, in addition, the labor in fabricating them in the shield member adds to the expense of the shield member.

The principal object of the present invention is the provision of a face shield which is so constructed that the fastening means for securing the shield member to the body portion of the device need not be discarded when the shield member has served its useful life and must be replaced.

Preferred embodiments of the invention are shown in the accompanying drawing. It is to be understood, however, that this disclosure is for the purpose of illustration only and the scope of the protection sought is not to be unduly limited thereby.

Referring to the drawing:

Fig. 1 is a view in side elevation showing a complete face shield;

Fig. 2 is a view in front elevation of the shield member;

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1 showing one embodiment of the invention;

Fig. 4 is a view taken on the line 4—4 of Fig. 3;

Fig. 5 is a sectional view of a modified form of the invention; and

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 5.

In the drawing the headband of the device is indicated by the reference numeral 11. The headband is of conventional form and is well known in this art, usually being provided with adjustable means, not shown in the drawing, for the purpose of permitting it to fit heads of various sizes. Pivotaly attached to the sides of the headband at the point 12 is a visor member 13 which may be moved up or down, depending upon the desires of the wearer. The shield member is indicated by the reference character 14. The bottom and side edges of the shield member are shown as being bound with material

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15 which may be either metal or fabric and in some instances no binding at all is employed.

The top edge of the shield member which is secured to the body portion of the device is provided with a plurality of holes 16. These holes are so spaced as to coincide with a plurality of fasteners positioned on the visor of the shield. In the embodiment of the invention shown in Figs. 3 and 4 snap fasteners are employed. The female portion 17 of the snap fastener is preferably attached to the visor 13 and the male portion 18 is forced through a hole in a strip 18' positioned inside the visor, that may be constructed of metal or fibre. Each male portion 18 is then forced through a hole 16 in the shield member. The male fastener elements temporarily, but firmly and securely, support the shield member. When the shield member is to be discarded, female snap fastened portions 17 are unsnapped from the male snap fastener portions 18 and the latter are forced back through the openings 16. An additional strip 18' can, if desired, also be utilized on the other upper marginal side of the transparent shield 14.

In the form of the device shown in Figs. 5 and 6 the shield member is likewise provided with spaced holes at its upper edge and the lower portion of the visor is provided with inwardly directed projections 19 that correspond to the holes in the shield member. These projections may be formed by punching the visor to cause inwardly projecting tongues.

A resilient member 20 is provided to lock the shield in place. The resilient member 20 is preferably constructed of spring steel and has a plurality of openings therein which coincide with the projections 19. The ends 21 of the resilient member 20 are tapered or provided with tongues which are adapted to pass through openings 22 in the visor.

It will be apparent that when the shield member is placed so that the openings therein coincide with the projections 19, the resilient member 20 may be put in place by inserting one end thereof in its corresponding opening in the visor, then inserting the other end thereof in its corresponding opening and springing the resilient member in place so that the openings in the resilient member will correspond with the projections 19, thereby clamping the shield member in position. In order to remove the shield member and replace it by a new one it is only necessary to spring the resilient member 20 so that the ends thereof may be removed from the openings in

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the visor and the shield member can be readily removed.

The device has been found to be highly advantageous and to have materially reduced the cost of material and manufacture of shield members due to the elimination of permanent fastening means attached to the shield members.

I claim:

1. A face shield comprising a headband, a member secured to said headband for supporting a shield member, a shield member having a plurality of openings in the upper edge thereof, means for fastening said shield member to said member comprising a band having interlocking engagement with said member, and means passing through the openings in said shield member between said band and said member.

2. A face shield comprising a headband, a member secured to said headband for supporting a shield member, a plurality of projections extending inwardly from said member, a shield member having a plurality of openings in the upper edge thereof adapted to register with said projections, means for fastening said shield member to said member comprising a band having interlocking engagement with said member and passing around said shield member opposite said projections.

3. A face shield comprising a headband, a member secured to said headband for supporting a shield member, a shield member having a plurality of openings in the upper edge thereof, a resilient locking member, means for fastening said resilient locking member to the first mentioned member and means passing between the

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first mentioned member and said locking member through said openings.

4. A face shield comprising a headband, a shield supporting member secured to said headband, a shield member having a plurality of openings in the upper edge thereof, a resilient member having the ends thereof so shaped as to pass through openings in said shield supporting member and secure said resilient member, and means passing between said shield supporting member and said resilient member through the openings in said shield member.

5. A face shield comprising a headband having a portion for supporting a shield member having a plurality of openings in the upper edge thereof, means for fastening said shield to member to said portion comprising a band having interlocking engagement with said portion and means passing through the openings in said shield member between said band and said portion.

6. A face shield comprising a headband, a shield supporting member secured to said headband and having a plurality of projections thereon, a shield member having a plurality of openings marginally along the upper edge thereof through which said projections extend, and a shield holding member having a plurality of openings therein receiving said projections, which shield holding member terminates in tongues that pass through other openings in said shield supporting member to secure the same thereto and maintain the shield member in position.

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