G. D. GEORGE.

EYE PROTECTOR.

APPLICATION FILED AUG. 23, 1912.

1,070,334. Patented Aug. 12, 1913.

Fig. 1.



Fig. 6.

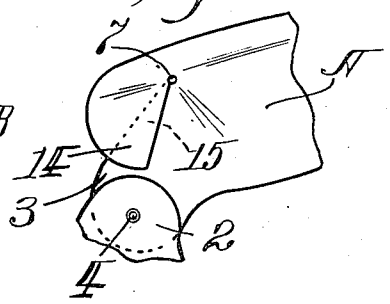
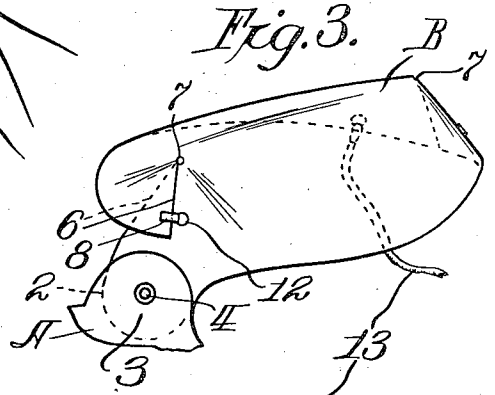


Fig. 4.



Fig. 5.

Fig. 3.



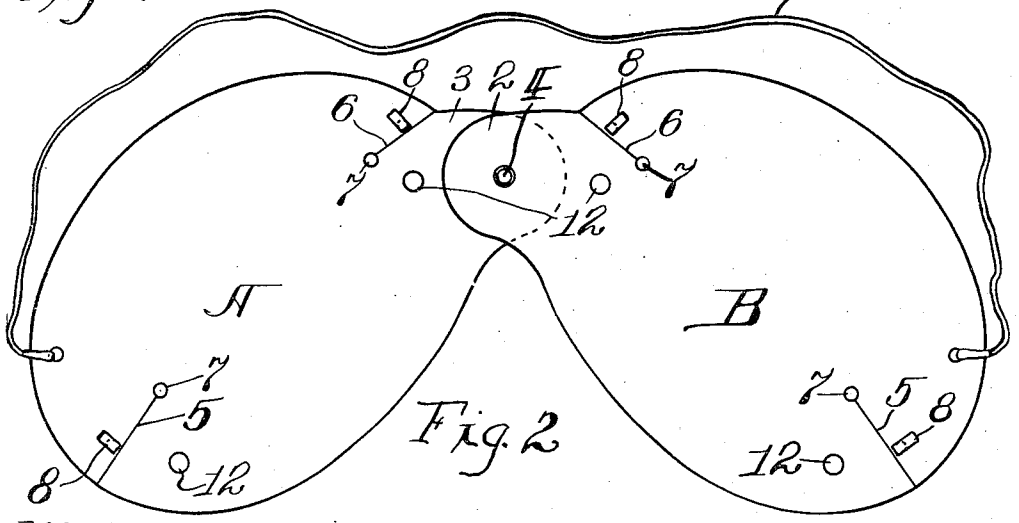


Fig. 2

Witnesses:

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UNITED STATES PATENT OFFICE.

GILBERT D. GEORGE, OF ST. PAUL, MINNESOTA.

EYE-PROTECTOR.

1,070,334. Specification of Letters Patent. Patented Aug. 12, 1913.

Application filed August 23, 1912. Serial No. 716,659.

To all whom it may concern:

Be it known that I, GILBERT D. GEORGE, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Eye-Protectors, of which the following is a specification.

The object of this invention is to provide a protector for eyes which is light, simple, inexpensive and effective in use.

My construction permits of the use of flexible transparent material which can be readily adjusted to lie flat when not in use and of folding into a convenient package for carrying. Further the device is so constructed that the parts may be formed into concave shields which will closely fit the wearer to protect the eyes against dust and providing a wide range of vision without refraction and also stand out away from the eye lash.

In the accompanying drawing forming part of this specification, Figure 1 is a perspective view illustrating my invention in use; Fig. 2 is a plan of the shields illustrating the parts lying flat in position to fold; Fig. 3 is a detail in perspective illustrating one of the shields and a portion of the other, the complete shield being illustrated with its flaps connected when the shield is in condition to be worn; Fig. 4 is a detail of one of the shields lying flat and without the fastener which secures the flaps together, Fig. 5 is a perspective of a form of fastener which may be employed for securing the flaps together and Fig. 6 is a perspective of a detail showing how my invention can be constructed without fastening the flaps on the margin of the shields together.

In the drawing A and B indicate a pair of shields each section of which is of elliptical shape having overlapping extensions 2 and 3 which are pivotally secured together by the fastener 4. The shields A and B are adapted to lie normally flat and turn upon the pivot 4 in substantially a plane with the adjacent surfaces of the shields. In this manner the shields may be folded into a flat and compact parcel. Each shield is slitted at 5 and 6, the slit 5 being at the outer end of the shield and the slit 6 at the inner end near the nose portion lying between the bodies of the members.

The end of each slit terminates in the curved perforation 7 at its inner end which prevents tearing of the material from which the shields are formed. Each slit produces adjacent flaps and the material of each shield is adapted to be bent with the flaps adjacent a slit overlapping so as to concave the shield and cause it to fit closely over the cheek, nose and forehead portions of the face and stand out away from the eye and eyelashes.

The flaps of each pair adjacent a slit are adapted to be detachably fastened such as by a clip 8 having a hook 9 and a body portion 10 wrapped through slots 11 and clinched to the material composing the shield. The hook 9 is adapted to engage freely through a perforation 12 in the adjacent flap to which the clip is secured. This construction provides a separable connection between the flaps which permits of the flaps being readily connected or disconnected by the user leaving the device when not in use free to be folded so as not to crush or break when carried in the pocket.

The ends of the shields are provided with an elastic cord 13 by which the device may be securely held in place on the head of the wearer as illustrated in Fig. 1.

The device is adapted to be made out of celluloid or any other suitable flexible transparent or semitransparent material. I have found in practice that the device as constructed and described above avoids substantially all refraction of light upon the eyes of the user and provides a wide range of vision, which goggles heretofore used have not accomplished. The shields may be made without the use of clips for securing the overlapping flaps of the margin together as illustrated in Fig. 6. The celluloid flaps 14 and 15 in this view are shown as being shaped permanently by placing them over a heated form. Normally the flaps remain in overlapped position and the shield concaved but the material being flexible permits the shields spreading flat when not in use and folding in a single plane.

In accordance with the patent statutes I have described the principles of operation of my invention together with the apparatus which I now consider to represent the best embodiment thereof but I desire to have it understood that the construction shown is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

Having described my invention, what I

claim as new and desire to protect by Letters Patent is: —

1. An eye protector comprising two flexible transparent shields overlapping centrally between said shields and pivotally united at a single point and adapted to fold in substantially a single plane and means for securing said shields in place.

2. An eye protector comprising two flexible overlapping transparent shields pivotally united at a point central to their overlapping portion and adapted to fold in substantially a single plane, each of said shields having its margin slitted adjacent the overlapping portion thereof to form flaps adapted to be overlapped, a clip detachably securing said flaps together in overlapped position to concave the shield, and means for securing the shields in place.

3. In an eye protector, a shield made of flexible transparent material having a slitted margin terminating at its inner end in a curved opening to prevent tearing, each of the flaps formed by said slit being perforated, said perforations being adapted to coincide when said flaps are overlapped, and a clip secured in said perforation on one of said flaps and adapted to detachably engage the edge of the perforation on the other of said flaps when said flaps are overlapped to hold the same together.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

GILBERT D. GEORGE.

Witnesses:
H. L. FISCHER,
G. H. DEEBACH.