H. O. VAN ANTWERP.

EYE SHIELD.

APPLICATION FILED JUNE 28, 1915.

1,203,079. Patented Oct. 31, 1916.

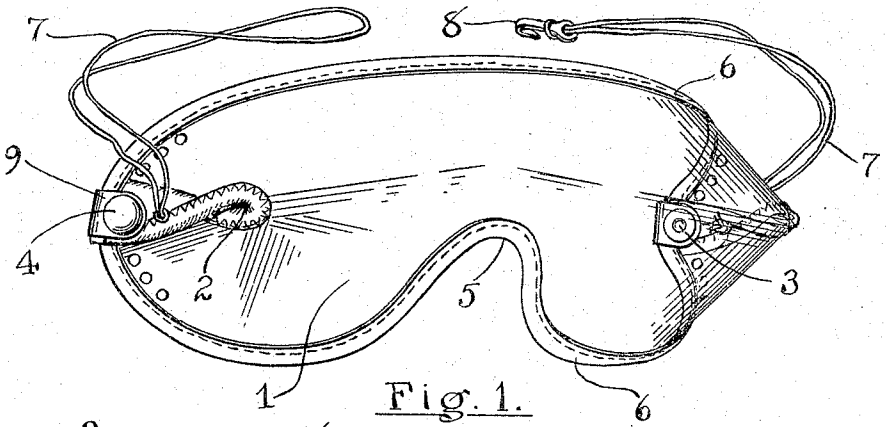


Fig. 1.

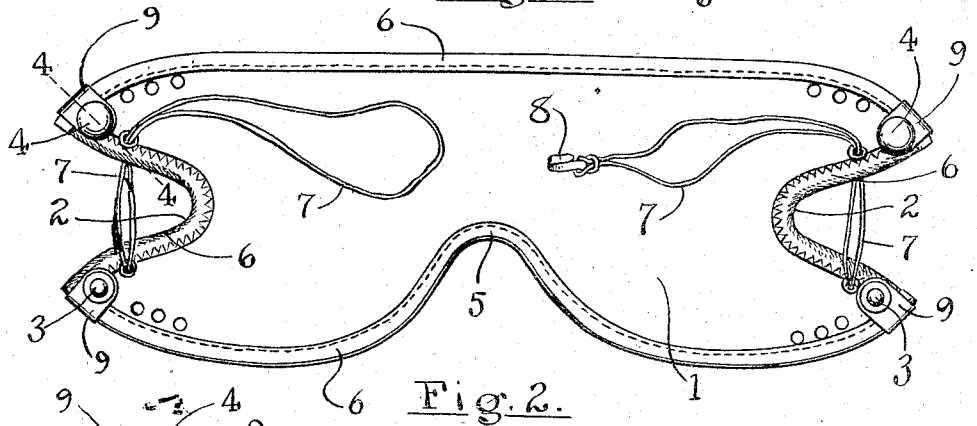


Fig. 2.

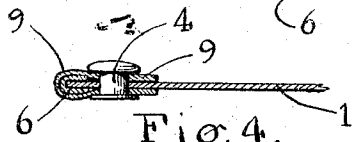


Fig. 4.

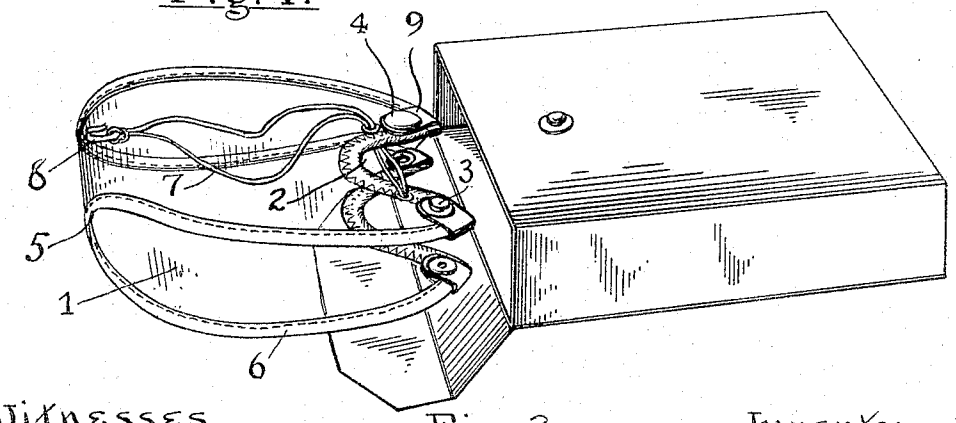


Fig. 3.

Witnesses

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EYE-SHIELD.

1,203,079. Specification of Letters Patent. Patented Oct. 31, 1916.

Application filed June 28, 1915. Serial No. 36,753.

To all whom it may concern:

Be it known that I, HAROLD OSBURN VAN ANTWERP, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Eye-Shields, of which the following is a specification.

This invention relates to improvements in eye shields of the type commonly known as goggles, and more particularly to such goggles as are formed of a single piece of transparent "celluloid" or like flexible material, and its object is to embody in the construction of such goggle certain features whereby, after the goggle has been formed into operative shape, it may be quickly restored to its original flat shape and compactly folded for convenience in carrying and also to provide the goggle with other new and useful features as hereinafter more fully described and particularly pointed out in the claims.

Goggles of the type to which this invention applies have commonly been constructed of a single piece of flat, flexible, transparent "celluloid" which is caused to assume the desired convex shape opposite the eyes by folding and overlapping portions of the material at its respective ends, and permanently fastening said material in such position. This style of construction is objectionable in that a goggle so formed permanently retains its convex shape and cannot be compactly folded.

This invention conceives a method of construction in which the folded and overlapped end portions of the material may be detachably connected and easily and quickly disconnected at will thus restoring the goggle to its original flat condition whereupon it may be compactly folded and inserted in a suitable case or merely carried flat if so desired.

The preferred construction of a goggle embodying this invention is clearly shown in the accompanying drawings in which—

Figure 1— is a perspective view of a goggle embodying this invention shown formed into operative position; Fig. 2— shows the same with its folded end portions disconnected and the whole goggle restored to a flat plane; Fig. 3— is a perspective view showing a desirable way of folding the flattened goggle and a suitable case to receive the same when so folded; Fig. 4— is an enlarged sectional detail on the line 4—4 of Fig. 2.

Like numbers refer to like parts in all of the figures.

1 represents the body of the goggle cut from a flat sheet of thin transparent flexible material such as celluloid. This body is substantially oblong in general shape and its respective ends have V shaped notches 2 therein. The respective opposite edges of the said notches 2 are adapted to be drawn toward each other and preferably lapped one over the other and detachably retained in such position by suitable fastening means, a snap fastener comprising a post 3 on the body near one of said edges and a socket 4 near the opposite edge being shown in the drawing. When the opposite sides of the respective notched ends are so drawn together and retained, the body near its respective ends, assumes a convex shape, such convex portions being arranged to come opposite the eyes of the wearer when applied in operative position to the face. The lower edge of the body is provided with a recess 5 to receive the arch of the nose. The body 1 is preferably bound with suitable material 6 which makes the goggle more comfortable to wear and also materially strengthens the same, particularly at the apex of each notch 2 where there is a tendency to tear.

Suitable means of attaching the goggle to the face of the wearer is provided, preferably an elastic loop 7 at each end of the body. Each loop is preferably attached to the body near the lower edge of the notch 2 and slidably passed through an opening near the upper edge thereof. These loops 7 may be either passed behind the ears of the wearer or one of them may be provided with a hook 8 and the loops brought back of his head and joined by said hook. When so attached the said loops aid in holding the overlapped end portions in position. The edges of the body near the post 3 and socket 4 portions of the fastener are preferably strengthened by folding a strip 9 of leather or like material over said edge and extending the same adjacent the opposite sides of the body. These reinforcing strips are held in place by the respective post and socket as they are attached to the body 1.

From the foregoing description it will be seen that this goggle, when formed into operative shape by overlapping its end por-

tions and retaining them by their snap fasteners, has all the advantages of ordinary goggles of this type, having its convex portions and flexible face fitting features. It will also be seen that by the simple expedient of disconnecting the fasteners the overlapped end portions may be separated and the body 1 flattened out to its original plane shape whereupon it may be compactly folded and inserted in a suitable case if desired.

It will be understood that obvious alterations of the exact construction herein described may be resorted to without deviating from the spirit of the invention.

What I claim is:

1. An eye shield formed of flat material and having convex portions formed by drawing together portions of said flat material, means for detachably retaining said material in convex shape, comprising a socket on one of said portions and a post on another of said portions, the post being adapted to enter the socket and being frictionally retained therein and means for attaching the eye shield to wearer's face.

2. An eye shield comprising a body having flat portions of flexible material near its respective ends, the ends of said flat portions being notched and the opposite sides of the respective notches being adapted to be drawn into juxtaposition to cause the adjacent flat portions of the body to assume a convex shape, means for detachably holding the sides of the notches in juxtaposed relation comprising a socket on one side of each of said notches, and a post on the opposite side of the same, the post being adapted to enter socket and be frictionally retained therein and removable therefrom and means for attaching the eye shield to the wearer's face.

3. An eye shield formed of a single piece of flat flexible material notched at its respective opposite ends, the opposite sides of each notch being adapted to be drawn into juxtaposition to cause the adjacent material to assume a convex shape, means for detachably holding the sides of the notches in juxtaposed relation comprising a socket on one side of each of said notches, and a post on the opposite side of the same, the post being adapted to enter socket and be frictionally retained therein and removable therefrom and means for attaching the eye shield to the wearer's face.

4. An eye shield comprising a body having flat flexible portions near its respective ends, the ends of said flat portions being notched and the opposite sides of said notches being adapted to be drawn into juxtaposition to cause the adjacent flat portions to assume a convex shape, means for detachably retaining said sides of the notches in juxtaposed relation, a flexible binding attached to the sides of the notches and means for attaching the eye shield to the wearer's face.

5. An eye shield comprising a body having flat flexible portions near its respective ends, the ends of said flat portions being notched and the opposite sides of said notches being adapted to be drawn into juxtaposition to cause the adjacent flat portions to assume a convex shape, a socket on one side of each notch, a post on the opposite side thereof, the post being adapted to enter the socket and be frictionally retained therein, a flexible binding attached to the sides of the notches and extending in a continuous piece around said sides and means for attaching the eye shield to the wearer's face.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."