

H. F. SHINDEL.
EYE CUP FOR GOGGLES.
APPLICATION FILED MAY 6, 1918.

1,296,707.

Patented Mar. 11, 1919.

Fig. 1.

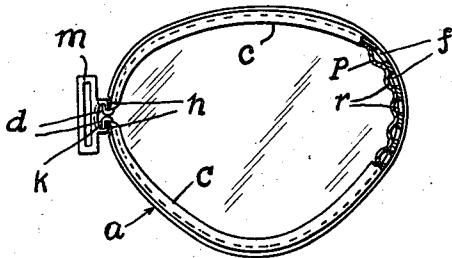


Fig. 2.

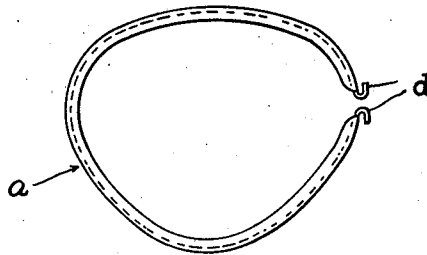


Fig. 3.

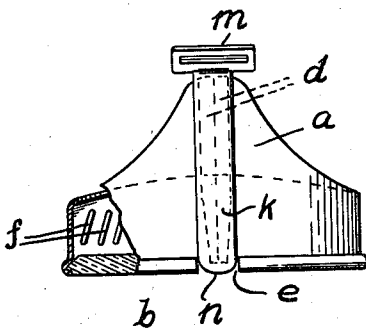


Fig. 4.

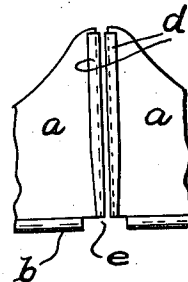


Fig. 5.

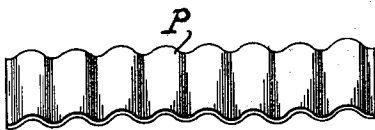
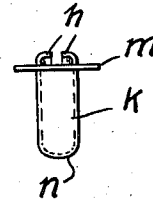


Fig. 6.



Inventor

Harry F. Shindel

Witness

L. B. James

By J. E. M. Stewart

Attorney

UNITED STATES PATENT OFFICE.

HARRY F. SHINDEL, OF READING, PENNSYLVANIA, ASSIGNOR TO T. A. WILLSON & CO.,
INC., OF READING, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

EYE-CUP FOR GOGGLES.

1,296,707.

Specification of Letters Patent.

Patented Mar. 11, 1919.

Application filed May 6, 1918. Serial No. 232,855.

To all whom it may concern:

Be it known that I, HARRY F. SHINDEL, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Eye-Cups for Goggles, of which the following is a specification.

My invention relates particularly to goggles comprising eye cups adapted to inclose the eye cavities so as to exclude dirt and objectionable side light, and it consists in the improved construction hereinafter fully described in connection with the accompanying drawings, the novel features of which are clearly defined in the claims.

The main object of my invention is to provide a neat light and economical eye cup structure in which to satisfactorily secure the inserted lens, and also to secure desired ventilation of the inclosed eye in an advantageous way.

Figures 1 and 2 are rear views of two suitably spaced eye cups; one being shown partly in cross-section and with the lens, clamping sheath, and inserted ventilating guard in place, while the other is shown without these applied parts.

Fig. 3 is an end view of a complete eye cup; Fig. 4 is a similar view to Fig. 3 with the clamping sheath removed; Fig. 5 is a separate view of the clamping sheath; and Fig. 6 is a separate view of the unfolded ventilating guard ring.

The eye cup *a* is formed from a suitably shaped blank of sheet material. The longitudinally beaded straight outer edge *b* of this punching is shaped to form an interior lens-edge engaging recess; the irregularly curved and ornamentally inturned outer edge *c* thereof is shaped to contact with the face of the wearer around the eye cavity, and the meeting ends of the folded blank are outwardly turned to form U-shaped clamping flanges *d d* which are adapted to be brought together by an engaging clamping device as hereafter described; the lens engaging edge *b* however being of reduced length as shown so as to form an edge recess *e* in the folded cup. Suitable ventilating apertures *f* are also provided in the wall of the cup.

The clamping sheath, as shown, is formed of sheet material shaped to a channel cross-section having the outer portions *h* of each

flange turned approximately parallel with the outwardly bulged web *k* thereof; the opposite ends however being formed respectively with a head-securing connection *m*, and with an inturned stop *n* adapted to properly position the fully engaged clamping sheath on the meeting ends *d d* of the folded cup framing.

To provide for preventing the admission of dirt and objectionable side light to the eye through the ventilating apertures *f*, I employ an inserted guard *p* adapted to protectively cover the latter yet permit circulation of air in the cup. This guard is formed, as indicated in Fig. 6, by a folded band of transversely corrugated material, the outer grooves *r* of which provide air passages communicating with the apertures *f* but loosely covering the latter, when the folded guard is inserted and secured as a wall lining in the clamped cup framing.

When the clamping edges *d d* of the folded cup framing are loosely brought together as indicated in Fig. 4, with the lens and guard ring in place, the head-connection end *m* of the clamping sheath is first engaged with the outer ends of the abutted framing flanges *d d*, and then pushed into full length engagement therewith to draw them together and firmly clamp the parts; this clamping effect being satisfactorily insured by tapering the U-shaped flanges of the framing as indicated at *t* so as to permit of readily entering the sheath upon them and providing for a wedging action in moving it to full engagement. When thus fully engaged the inturned outer end *n* of the clamping sheath forms a stop against the clamping flanges *d d* so as to positively retain it against any pull upon the head-securing connection *m*, and at the same time ornamentally fills the recess *e* in the grooved outer edge of the framing and forms a flush finish with the latter.

What I claim is:

1. In combination with a lens, an eye cup comprising a folded sheet-material framing formed with a lens-engaging circumferential edge and outwardly turned clamping ends, and a clamping sheath in slidable engagement with said outwardly turned ends.

2. In combination with a lens, an eye cup comprising a folded sheet-material framing formed with a lens-engaging circumferential

edge and outwardly turned clamping ends, and a clamping sheath in slidable engagement with said outwardly turned ends, said sheath having an intumed stop at one end thereof.

3. In combination with a lens, an eye cup comprising a folded sheet-material framing formed with a lens-engaging circumferential edge and outwardly turned clamping ends, and a clamping sheath in slidable engagement with said outwardly turned ends, said sheath having an intumed stop at one end thereof and a head-band connection at the other end.
4. In combination with a lens, an eye cup comprising a folded sheet-material framing formed with a lens-engaging circumferential edge and outwardly turned clamping ends, and a clamping sheath in slidable engagement with said outwardly turned ends, said

sheath having a head-band connection at one end.

5. In combination with an eye cup having ventilating wall apertures, an inserted transversely-corrugated guard ring for said apertures.

6. In combination with an eye cup formed of folded sheet material having ventilating wall apertures, and clamping means therefor, an inserted ventilating guard ring formed of folded sheet material.

7. In combination with a lens, an eye cup comprising a folded sheet-material framing formed with a lens-engaging circumferential edge, outwardly turned clamping ends, and ventilating apertures, a guard ring for said apertures within said framing, and clamping means engaging said ends.

In testimony whereof I affix my signature.

HARRY F. SHINDEL.