H. S. COVER.

EYE GOGGLES.

APPLICATION FILED FEB. 13, 1922.

1,433,676. Patented Oct. 31, 1922.

Fig. 1.

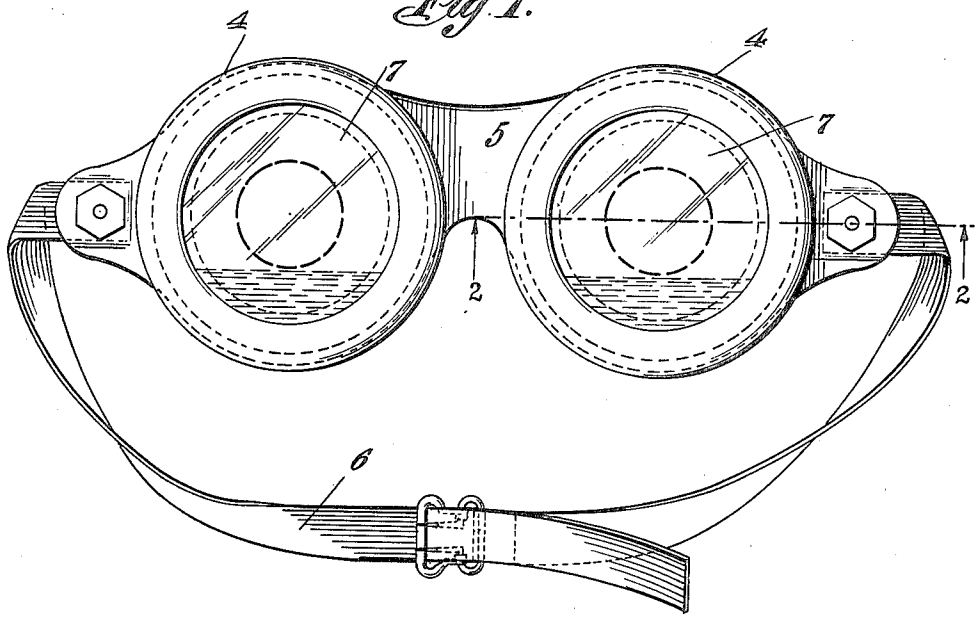


Fig. 2.

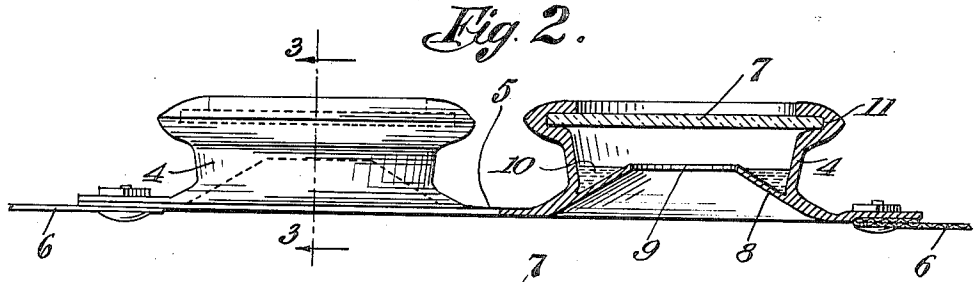
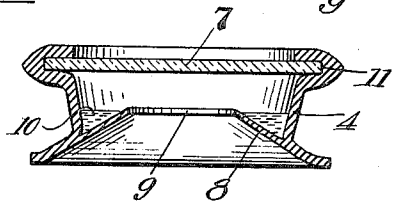


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

HARVEY S. COVER, OF SOUTH BEND, INDIANA.

EYE GOGGLES.

Application filed February 13, 1922. Serial No. 536,011.

To all whom it may concern:

Be it known that I, HARVEY S. COVER, a citizen of the United States, and a resident of the city of South Bend, county of Saint Joseph, and State of Indiana, have invented certain new and useful Improvements in Eye Goggles, of which the following is a specification.

My invention relates to improvements in eye goggles adapted for use of persons working in dense fumes, gases, poisonous dust, lime, spattering fluids, pathogenic bacteria, viruses and other deleterious substances that injuriously affect the eyes and call for complete protection and good vision, the object of the invention being to provide a simple and readily applied device of this character in which the glass or transparency employed to permit of vision may be readily cleansed of moisture, dust, or other deposit thereon interfering with such vision.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a face view of the goggle embodying the invention;

Fig. 2 is a partial section and top plan view thereof, said sectional part being taken substantially on line 2—2 of Fig. 1; and

Fig. 3 a section taken on line 3—3 of Fig. 2.

The preferred form of construction as illustrated in the drawings comprises two chambers 4 made of rubber connected together by means of a bridge 5 also of rubber and integral with said chambers. An adjustable strap or elastic band 6 is attached to the sides of the chambers 4 and is adapted to encircle the head of the wearer to hold the goggles in place over the eyes, the composition of the rubber being sufficiently soft and of proper form to effect a substantially gas tight seat on the wearer's face. The outer wall of each chamber is provided with a sight glass or transparency 7 to permit of vision and each chamber is also provided with an inner wall 8 formed integrally therewith and provided with a central sight opening 9 as shown. The inner walls 8 of the chambers 4 are made outwardly conical in form in order to retain therein a body 10 of water or other cleansing liquid. Each sight glass 7 is in the form of a disc seated in an annular groove or recess 11 formed in the walls of the corresponding chamber 4, said disc 7 being somewhat larger than the normal diameter of the chamber to cause outward stretching or flaring thereof when placed in position as indicated. This outward stretching or flaring of the walls of each chamber 4 serves to draw the inner wall 8 thereof into outwardly conical form and whereby the cleansing fluid 10 will be maintained in the chamber under all conditions of use.

In use the natural movement of the wearer in performing his work will constantly dash the water across the inner faces of the glass discs 7 thus cleansing them from any moisture or other clouding matter collecting thereon. Should this natural agitation be insufficient for the purpose, all the wearer has to do is to stoop over forward and shake his head which will thoroughly cleanse the glasses without removing the goggles from the eyes. The interposition of the walls 8 provided with comparatively restricted sight openings 9 between the sight glasses 7 and the face of the wearer has a tendency to prevent the passage of the moisture to the sight glass and thus in themselves and alone have a tendency to prevent the passage of moisture to the sight glasses and cause condensation of said moisture against the rear sides of said walls 8 thus tending to lessen the necessity for cleansing said sight glasses.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of the construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies the inner portions of said chambers being in open communication with the eyes of the wearer; and means in said chambers for

cleaning the inner faces of said transparencies, substantially as described.

2. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies; and a fluid in said chambers for cleaning the inner faces of said transparencies, substantially as described.

3. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies, said chambers being also provided with inner walls having central sight apertures therein placing said chambers in open communication with the eyes of the wearer but forming a partial barrier to the free passage of moisture into said chambers; and means in said chambers for cleansing the inner faces of said transparencies, substantially as described.

4. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies, said chambers being also provided with inner walls having central sight apertures therein; and a fluid in said chamber for cleansing the inner faces of said transparencies, substantially as described.

5. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies, said chambers being also provided with inner walls outwardly conical in form having central sight apertures therein placing said chambers in open communication with the eyes of the wearer but forming a partial barrier to the free passage of moisture into said chambers; and means in said chambers for cleansing the inner faces of said transparencies, substantially as described.

6. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies, said chambers being also provided with inner walls outwardly conical in form having central sight apertures therein; and a fluid in said chambers for cleansing the inner faces of said transparencies, substantially as described.

7. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies, said chambers being also provided with inner walls having sight apertures therein, said inner walls being interposed between the inner portions of said chambers and the face of the wearer and forming partial barriers to the free passage of moisture into said chambers, and the areas of said apertures being less than the transverse areas of said chambers substantially as described.

8. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and provided in their outer walls with sight transparencies, said chambers being also provided with inner walls outwardly conical in form and having central sight apertures therein, said inner walls being interposed between the inner portions of said chambers and the face of the wearer and constituting partial barriers to the free passage of moisture into said chambers, and the areas of said apertures being less than the transverse areas of said chambers substantially as described.

9. Eye goggles comprising chambers adapted and arranged to seat against the face of the wearer and connected together by a bridge, said chambers and bridge being formed of rubber; a band secured to said chambers and adapted to encircle the head of the wearer; a sight transparency in the outer wall of each of said chambers, there being an annular groove in the outer wall of each chamber and a glass disc seated in said groove the diameter of said disc being greater than the normal unstretched diameter of the chamber to cause outward stretching thereof; an inner wall for each chamber provided with a central sight aperture, said inner wall being formed of rubber and integral with the walls of said chamber, the outward stretching of said chamber wall serving to draw said inner wall into outwardly conical form; and a cleansing fluid in each of said chambers retained therein by the conical form of said inner wall, substantially as described.

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

HARVEY S. COVER.

Witnesses:
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BRAYTON G. RICHARDS.