

Nov. 20, 1923.

1,474,635

G. S. JOHNSTON

GOOGLES

Filed Aug. 23, 1922

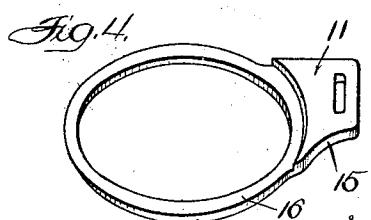
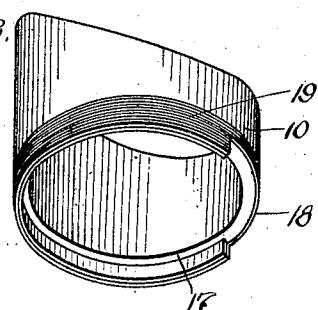
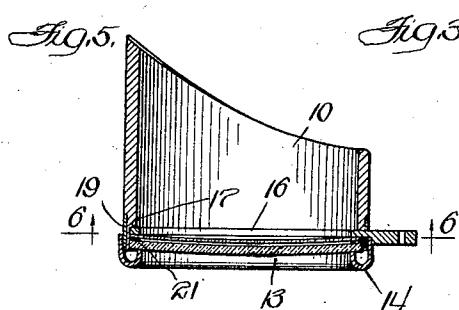
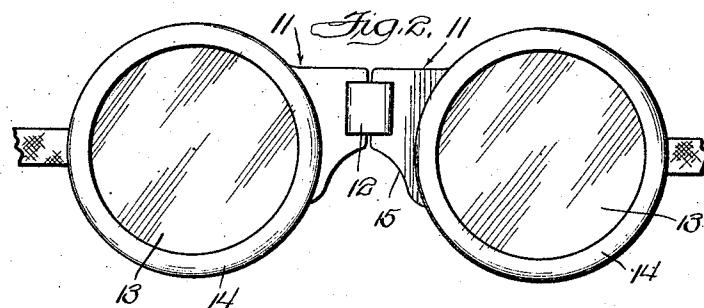
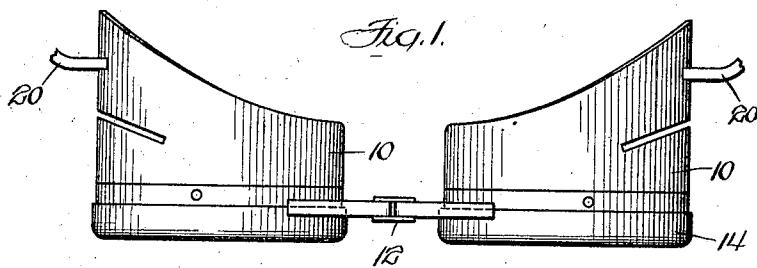
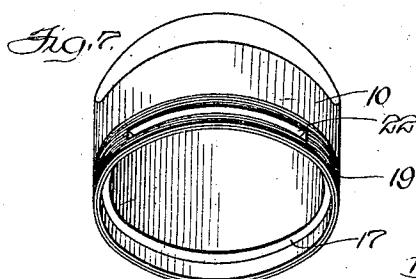
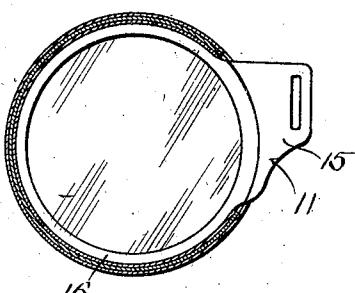


Fig. 6.



Inventor:
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By Jones, Aldington, Ames & Seibell
Attest

Patented Nov. 20, 1923.

1,474,635

UNITED STATES PATENT OFFICE.

GEORGE S. JOHNSTON, OF EVANSTON, ILLINOIS, ASSIGNOR TO AMERICAN OPTICAL COMPANY, OF SOUTHERBRIDGE, MASSACHUSETTS, A VOLUNTARY ASSOCIATION OF MASSACHUSETTS.

GOGGLES.

Application filed August 23, 1922. Serial No. 583,753.

To all whom it may concern:

Be it known that I, GEORGE S. JOHNSTON, a citizen of the United States, residing at Evanston, in the county of Cook and State 5 of Illinois, have invented new and useful Improvements in Goggles, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this 10 specification.

My invention relates to goggles. One of the objects of my invention is to provide improved means for securing the nose-piece or bridge to the eye-piece.

15 A further object of my invention is to provide improved means for connecting the two eye-pieces together; a further object of my invention is to provide an improved goggle construction in which the bridge is provided 20 with a securing-portion held against a shoulder inside the cylindrical eye-piece or shield.

A further object of my invention provides an improved construction in which the lens 25 and bridge-piece are held in place on the eye-piece by means of a ring fitted on the outside of the eye-piece.

30 A further object of my invention is to provide an improved goggle construction which will be durable and efficient in use, and easy to manufacture and assemble.

Further objects will appear from the detailed description which follows and from the appended claims.

35 In the drawings in which I have shown two embodiments of my invention,

Fig. 1 is a top plan view of the goggles;

Fig. 2 is a front view thereof;

40 Fig. 3 is a perspective view of the eye-piece;

Fig. 4 is a perspective view of the bridge or nose-piece;

45 Fig. 5 is an axial sectional view through one of the eye-pieces, showing the nose-piece and lens in position;

Fig. 6 is a section on the line 6—6 of Fig. 5;

50 Fig. 7 is a perspective view showing a slight change in the construction of the eye-piece.

Referring now to the drawings in detail, and first of Figs. 1-6 inclusive, the goggle shown therein comprises a pair of cylindrical eye-pieces or shields 10, a pair of nose-pieces 11, connected together by a strap or

link 12 to form a bridge connecting the eye-pieces, a pair of lenses 13, mounted on the eye-pieces 10 respectively, and a pair of ferrules or rings 14, for securing the lenses 13 and nose-pieces 11 to the eye-pieces 10.

The nose-piece 11 comprises a nose-engaging portion 15, and a ring-portion 16, positioned inside the tubular eye-piece 10, and seated on a shoulder 17. The edge of the eye-piece 10, is cut away as indicated at 18, 60 to provide clearance for the nose-piece 11, and to properly position this nose-piece with respect to the eye-piece. A metal ferrule 19 is secured to the outside of the eye-piece 10, 65 this ferrule being threaded for engagement with the internally threaded securing-ring 14 previously referred to.

Any suitable material may be used for the various parts, such as fibre for the eye-piece 10 and nose-piece 11, and brass for the ferrule 19 and securing-ring 14. Suitable straps 20 are provided for securing the goggles on the head of the wearer. As shown in Figs. 4 and 5, the nose-engaging portion 15 of the nose-piece may be somewhat thicker than the ring-portion 16, to afford a broad edge at the part which rests on the nose. 80

In assembling the goggles, the nose-piece 11 is placed with the ring-portion 16 resting 85 on the shoulder 17 of the eye-piece, the lenses 13 are placed in position, suitable cushioning washers 21 being provided if necessary or desired, and the retaining ring 14 is then placed in position and screwed onto the ferrule 19, to clamp the lens 13 and the ring 16 of the nose-piece in position with respect to the eye-piece 10.

The two nose-pieces 11 are then connected together by means of the strap 12, the two 90 nose-pieces together forming a bridge for the nose.

It will be seen, as indicated above, that the notch at 18 not only serves to provide a passage for the portion of the nose-piece connecting the nose-engaging portion and ring, but also serves to position the nose-piece with respect to the eye-piece, to prevent relative rotation there between.

In Fig. 7 there is shown an embodiment of 105 my invention in which the eye-piece 10, instead of having its edge notched out as indicated at 18 in Fig. 3, has a slot 22 in its side, through which the nose-engaging portion 15 of the nose-piece may be inserted, (this in- 110

sertion being made from the inside of the eye-piece 10) thus bringing the ring-portion 16 of the nose-piece in position to rest on the shoulder 17 of the eye-piece. After this, the 5 lens is placed in position and the securing-ring 14 is placed in position and screwed onto the ferrule 19, to clamp the lens and nose-piece firmly in position on the eye-piece.

While I have shown the securing-ring as 10 screwed onto the ferrule 19, instead of being screwed onto the ring, it may be clamped thereon or otherwise fitted to stay in place on the ring.

It will be seen that I have thus provided 15 a simple and efficient means for securing the nose-piece in position with respect to the eye-piece, which will be inexpensive, durable and efficient.

While I have shown but two forms of my 20 invention, it is obvious that it may be embodied in other forms covered and defined by the appended claims.

Having thus described my invention, 25 what I claim as new and desire to secure by Letters Patent of the United States is:

1. A goggle construction comprising a tubular eye-piece or shield, having an internal annular shoulder, a bridge or nose-piece comprising a nose-engaging portion and a 30 ring-portion, said ring-portion being seated on said annular shoulder, a lens seated on said ring-portion, and a securing-ring fitted onto the outside of said tubular eye-piece and holding said lens and ring-portion in place to secure them to said eye-piece.

2. A goggle construction comprising a tubular eye-piece or shield, having an internal annular shoulder, a bridge or nose-piece comprising a nose-engaging portion 40 and a ring-portion, said ring-portion being seated on said shoulder, a lens mounted on said eye-piece and a securing ring fitted onto the outside of said tubular eye-piece for holding said ring-portion against said shoulder to secure said nose-piece to said eye-piece.

3. A goggle construction comprising a pair of tubular eye-pieces or shields, each having an internal arcuate shoulder, and 50 means for securing said eye-pieces together, comprising a pair of links each having a ring-portion, said ring-ports being seated on said shoulders respectively, a pair of lenses, one mounted on each eye-piece, and 55 a pair of securing-rings fitted on the outside of said tubular eye-pieces for respectively holding said ring-ports against said shoulders and securing said lenses to said eye-pieces.

4. A goggle construction comprising a 60 tubular eye-piece or shield, having an internal arcuate shoulder, a bridge or nose-piece comprising a nose-engaging portion and an arcuate securing-portion, said arcuate securing-portion being seated on said arcuate 65 shoulder portion, a lens mounted on said eye-piece, and a securing-ring fitted on the outside of said tubular eye-piece and holding said arcuate securing portion against said arcuate shoulder portion to secure said 70 nose-piece to said eye-piece.

5. A goggle construction comprising a tubular eye-piece or shield, and provided with an internal shoulder, a bridge or nose-piece comprising a nose-engaging portion 75 and a ring inside said tubular eye-piece and bearing on said shoulder, a lens mounted on said tubular eye-piece, and a securing-ring fitted onto the outside of the tubular eye-piece to hold said ring-portion in place on 80 said shoulder, to secure the nose-piece to the eye-piece.

6. A goggle construction comprising a tubular eye-piece or shield, and provided with an internal shoulder, a bridge or nose-piece comprising a nose-engaging portion 85 and a ring inside said tubular eye-piece and bearing on said shoulder, a lens mounted on said tubular eye-piece, and a securing-ring fitted onto the outside of the tubular eye-piece to hold said ring-portion in place on 90 said shoulder, to secure the nose-piece to the eye-piece, said tubular eye-piece being cut away to afford clearance for the part of the nose-piece connecting the ring and nose-engaging portion.

7. A goggle construction comprising a tubular eye-piece or shield, and provided with an internal shoulder, a bridge or nose-piece comprising a nose-engaging portion 100 and a ring inside said tubular eye-piece and bearing on said shoulder, a lens mounted on said tubular eye-piece, and a securing-ring fitted onto the outside of the tubular eye-piece to hold said ring-portion in place on 105 said shoulder, to secure the nose-piece to the eye-piece, said tubular eye-piece being notched along its edge adjacent the nose-engaging portion of nose-piece to afford clearance for the part of the nose-piece connecting the ring and nose-engaging portion.

In witness whereof, I have hereunto subscribed my name.

GEO. S. JOHNSTON.

Witnesses:

LEE W. PARKE,
C. ROY OLSON.