No. 807,844. PATENTED DEC. 19, 1905.

E. MIROVITCH.

EYE PROTECTOR.

APPLICATION FILED FEB. 11, 1905.

Fig. 1.

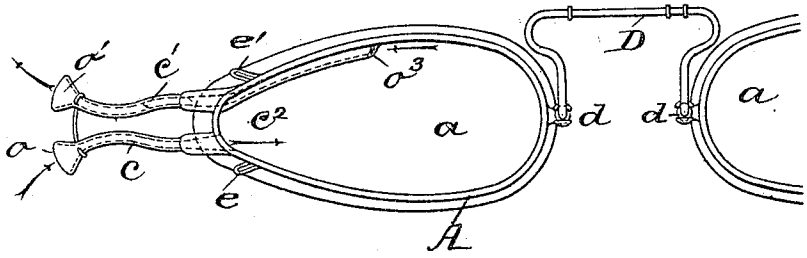


Fig. 2.

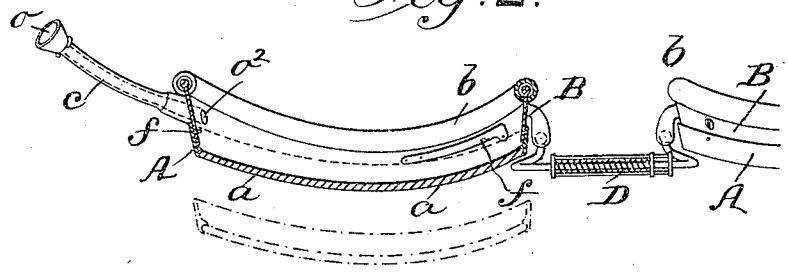
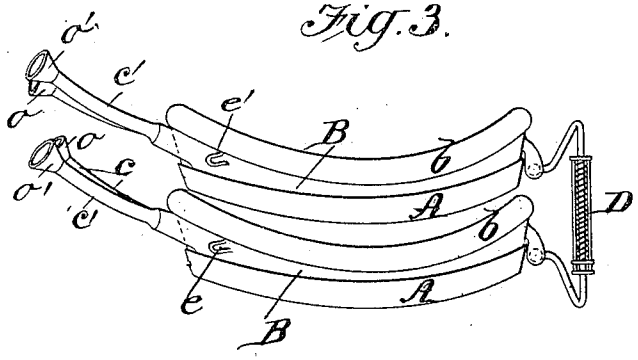


Fig. 3.



WITNESSES.

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EYE-PROTECTOR.

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Application filed February 11, 1905. Serial No. 245,246.

To all whom it may concern:

Be it known that I, ELIE MIROVITCH, doctor of medicine of the faculty of Paris, residing at 53 Rue Notre Dame de Lorette, Paris, France, have invented certain new and useful Improvements in Eye-Protectors or Goggles for Automobilists and others, of which the following is a specification.

This invention relates to eye-protectors in the form of pince-nez for automobilists, cyclists, and others and which are known as "goggles." Such articles, as is well known, consist of a pair of glasses mounted in a frame or casing so constructed as to form a chamber for each of the wearer's eyes, and thus to shield them from wind and dust.

The object of the improved eye-protector of my invention is to effectually insure this result and at the same time obtain other advantages calculated to afford greater comfort to the wearer by, on the one hand, constantly maintaining the chambers in which the eyes are inclosed in a hygienic condition, and, on the other hand, affording a field of vision more conformable to the normal conditions of working of the human eye—that is to say, the normal vision.

The invention is illustrated in the accompanying drawings, wherein—

Figure 1 represents a part face view, and Fig. 2 a part horizontal section, of the improved goggles. Fig. 3 shows the goggles as folded for carrying in the pocket.

a represents the glasses, which are set in bands A, mounted therein in bezels or in any other suitable manner. The bands A are fitted upon eye-cups B, furnished with beads *b* of soft india-rubber. At the ends of each of the cups B toward the temples are fitted a pair of flexible ventilating-tubes *c c'*, terminating outwardly in the flaring ends *o o'* and whose inner ends o^2 o^3 open out into the interior of the eye-cups B. Each pair of flexible tubes *c c'* may be inclosed in a casing of flexible material in order to insure a hermetic fit between it and the face beyond the beaded edge *b*. The two ocular chambers *a* A B *b* are united by an extensible nose-bridge D, which is connected to each eye-cup B by means of a ball-and-socket joint *d*, so as to be capable of folding in all directions. The central portion of the said nose-bridge is formed of a spring-pressed slide which is capable of expansion or contraction to suit the width of the nose of the wearer of the goggles. A screw or other stop maintains this slide in the desired position of adjustment.

By providing the nose-bridge with ball-and-socket joints the goggles may be folded together into a small compass, as shown in Fig. 3, for the purpose of putting into a case or carrying in the pocket.

The goggles thus constructed are held in position over the eyes by a double cord attached to each eye-cup B at *e e'* and united by an elastic band adapted to pass round the head, so as to press the elastic beaded edges *b* against the facial cavities of the eyes.

The fixing of each band A to its eye-cup B is effected by any suitable means of removable attachment. The drawings show to this end a pin *f*, fixed to A, passing through B, and a spring *f'* with projecting pin and push-piece for disengaging it. This means of attachment, which is moreover of known kind, is merely given by way of example in order that it may be clearly understood that the glasses *a*, secured in their bands A, may be readily detached from the eye-cups, as shown in dotted lines in Fig. 2, to permit of changing the glasses, if desired. In this manner the goggles might be fitted with white, blue, black, or smoked glasses, according to the intensity of the light and the sensitiveness of the eyes, or with gray glasses, or even with glasses which either magnify or lessen the size of objects, according as they are to be used by persons with normal sight, short sight, or long sight.

By means of these improved goggles the eyes of an automobilist are effectually protected from the wind, as well as from dust and foreign matter, which, is very apt to cause annoyance and injury to the sight when traveling at high speeds, while at the same time ventilation is afforded by means of the double tubes *c c'*, which produce a constant circulation of air through the eye-chamber, the fresh external air entering at the orifice *o* and the warm air and vapor escaping at the upper orifice *o'* in consequence of the natural draft created by the difference of temperature.

I claim—

1. In eye-protectors and goggles for automobilists and others, the combination with a pair of lens-frames connected together, each of a depth to form a chamber to inclose one of the eyes of the wearer, and each provided with elastic cushions, of glass mounted in bezels detachably secured to the frame, and

pairs of inlet and outlet air-tubes communicating with openings at the outer end and the upper side of the frames, respectively, to enable a current of air to circulate through the eye-chamber, substantially as described.

2. The combination with eye-protectors and goggles for automobilists and others, consisting of a pair of lens-frames adjustably connected together, and each of a depth to form a chamber to inclose one of the eyes of the wearer, and each provided with elastic cushions, of pairs of flexible ventilating-tubes opening into the outer end and upper side of the chamber and constituting air inlets and outlets, respectively.

3. The combination with eye-protectors or goggles for automobilists and others consisting of a pair of lens-frames connected together and each of a depth to form a chamber to inclose one of the eyes of the wearer and pairs of flexible ventilating-tubes opening into the chamber and constituting air inlets and outlets, of an extensible bridge having a screw-stop and connected to the eye-cups by ball-and-socket joints to permit of the frames being folded on one another, substantially as specified.

4. In goggles, the combination with the connected lens-frames, of elastic cushions on the rear face of the frames, detachable rims on the front of the frames and provided with bezels, lenses mounted in the bezels of the rims, inlet-tubes communicating with the interior of the frames at the outer ends thereof, and outlet-tubes communicating with the interior of the frames at the upper side thereof.

ELIE MIROVITCH.

In presence of—
JOSEPH LADSKY,
JULES MATHIEU.