

E. G. J. MARKHAM.  
 GOGGLES.  
 APPLICATION FILED MAR. 28, 1917.

1,270,640.

Patented June 25, 1918.

Fig. 1.

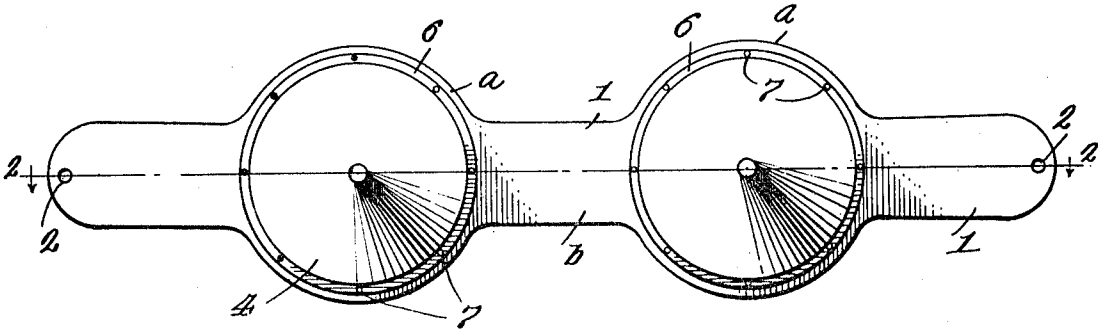


Fig. 2.

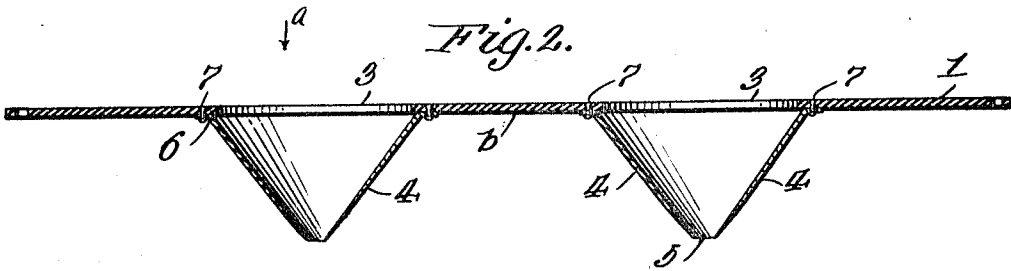


Fig. 3.

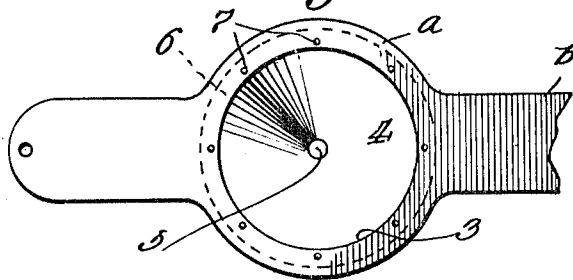
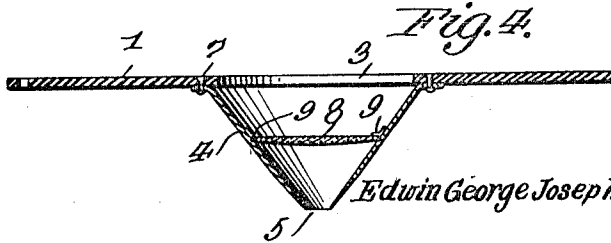


Fig. 4.



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WITNESSES

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# UNITED STATES PATENT OFFICE.

EDWIN GEORGE JOSEPH MARKHAM, OF WATROUS, SASKATCHEWAN, CANADA.

## GOGGLES.

1,270,640.

Specification of Letters Patent. Patented June 25, 1918.

Application filed March 28, 1917. Serial No. 158,028.

*To all whom it may concern:*

Be it known that I, EDWIN GEORGE JOSEPH MARKHAM, a subject of the King of Great Britain, residing at Watrous, in the Province of Saskatchewan and Dominion of Canada, have invented certain new and useful Improvements in Goggles, of which the following is a specification.

The present invention relates to eye protecting devices and comprehends such a device that can be used at various times when it is desired to protect the eyes from light, dust, or objects which may injure the sight.

The invention is chiefly concerned, however, with an eye protecting device in the form of goggles which will be found desirable on the battle-field, or any incidents where it will be necessary to protect the eye from missiles.

The primary object of the invention is to provide such a device of a simple and inexpensive construction, which will be most effective for its purposes.

The invention consists in the provision of a flexible element adapted to be extended or placed across the face of the user in proximity to the eyes and is provided with enlarged sight openings, each covered with a hollow frusto-conical shield, the shields having lenses suitably arranged therein if found desirable.

The invention further resides in the novel features which will appear in the following description.

In the drawings which illustrate the invention:—

Figure 1 is a front elevation of the eye shield constructed in accordance with the invention.

Fig. 2 is a horizontal sectional view taken substantially on line 2—2 of Fig. 1.

Fig. 3 is a fragmentary view of the eye shield looking in the direction of the arrow *a* of Fig. 2, and

Fig. 4 is a horizontal fragmentary section showing the shield provided with lenses.

Like characters denote similar and like parts throughout the specification and drawings.

The eye shield preferably assumes the formation of a pair of goggles and consists of a strip of suitable flexible material which is enlarged adjacent its ends as indicated at *a* and is reduced at its intermediate portion to provide a nose piece *b*, however, the nose

piece is of sufficient width as to extend down over the nose a considerable distance to protect the same. The strip 1 is adapted to be placed across the face of the user and secured to position by any suitable means, as by a cord extended around the head and secured in the openings 2 provided in the ends of the strip 1. The enlarged portions *a* are arranged to lie opposite the eyes and each has an enlarged sight opening 3 therein. Each of the sight openings has projecting outwardly from the edges thereof a hollow conical shield 4 having its apex removed so as to provide a relatively small sight opening which is preferably arranged in alignment with the focal center of the eye. The shields 4 are to be made of metal or other suitable non-flexible material which will resist the force of the impact caused by a flying missile contacting therewith. In the event that a missile should contact with the shield the latter will only inflict a glancing blow by virtue of its formation. The small opening 5 at the end of the shield will reduce the possibility of a missile or other object entering therethrough to injure the eye. The enlarged ends of the shields are formed with an outwardly extending annular flange 6 which engages with the outer surface of the enlarged portion *a* of the strip 1 and is secured thereto by suitable fastening means 7, such as rivets, or the like. As illustrated in Fig. 4, a lens 8 may be disposed in each of the shields 4 intermediate the reduced sight opening 5 and the opening 3 in the strip 1. The lens is preferably held in position by clips 9 which may be struck out from or otherwise secured to the inner face of the shield for engaging the lens in a manner clearly shown in Fig. 4. The lens 8 may be of any desired color or may be of such character as will assist or aid the sight of the user.

Applicant is aware that the present device will not be effective in cases where the user is struck by objects of great size and weight and having great force, but the device will protect the eye against a great number of casualties which would otherwise render fatal injury.

What is claimed is:—

1. An eye protector comprising a carrier adapted to extend across and in contact with the face of the user, said carrier having circular openings formed therein that are

adapted to register with the eyes, a shield formed as a cone secured to and projecting outwardly from the edge of each opening, the outer end of each of the shield being  
5 provided with a relatively small circular sight opening therein, and a lens secured in each of said shields, said sight opening serving as a small stop opening for the lens, the shield being formed to have its axis coincide  
10 with the axis of the lens and optical axis of the eye.

2. An eye protector comprising a carrier adapted to extend across the face of the user and having eye openings therein to lie  
15 in front of and opposite the eyes, a frusto-conical shield projecting from and secured adjacent the periphery of each eye opening, said frustum of the shield having a fixed and relatively small round sight opening therein,  
20 and a lens disposed and secured in each of

said shields and intermediate the ends thereof.

3. An eye protector, which comprises a carrier having spaced round eye openings, a cone shaped shield having its larger end  
25 secured to the carrier and around the edges of each of the openings, said shield extending outwardly from the carrier and provided with a light admitting opening at its outer end, a lens mounted in each of the  
30 shields and intermediate its ends so that the axes of the shield, the lens, the openings, and the eye will coincide.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN GEORGE JOSEPH MARKHAM.

Witnesses:

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ANNA WRIGHT.