

D. EVERETT.
EYE PROTECTOR.

No. 41,209.

Patented Jan. 12, 1864.

Fig. 1.

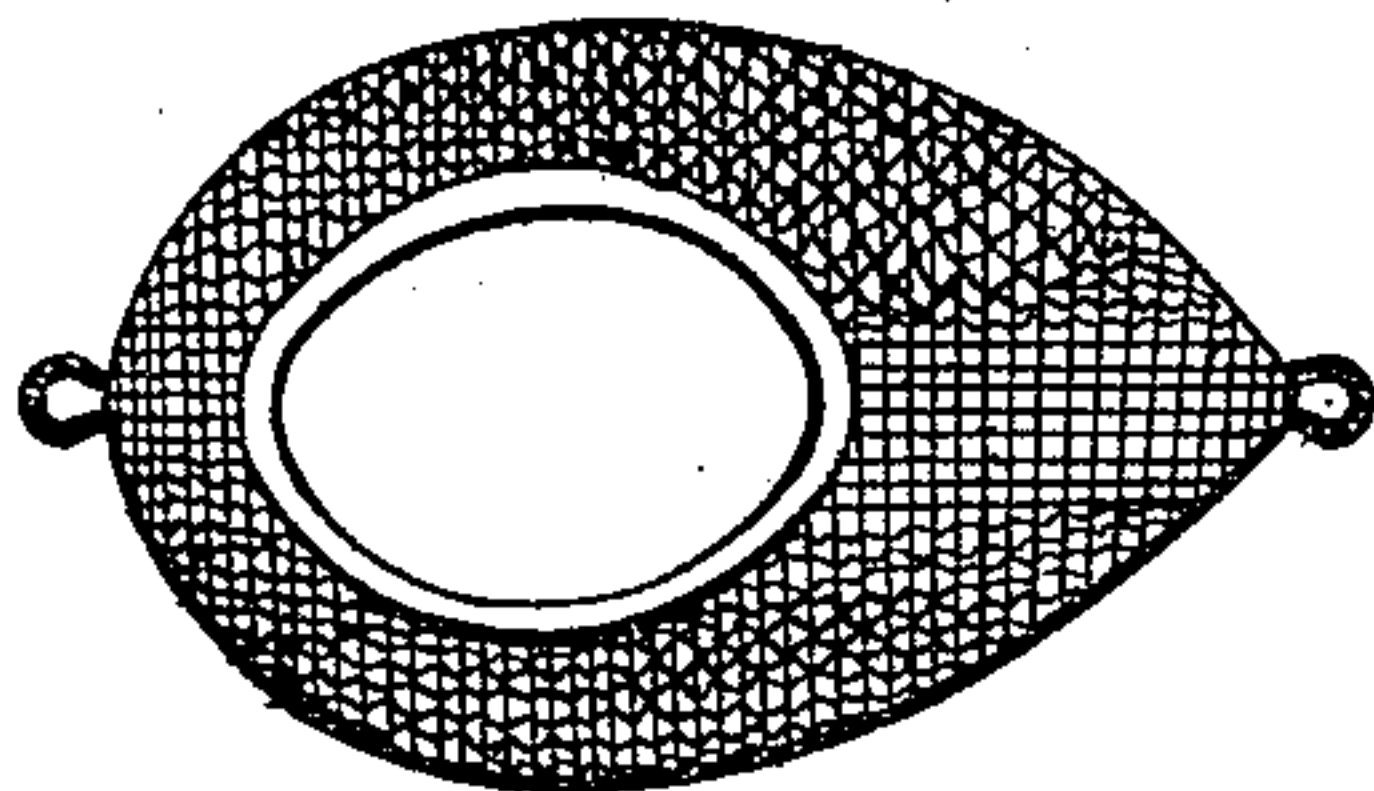
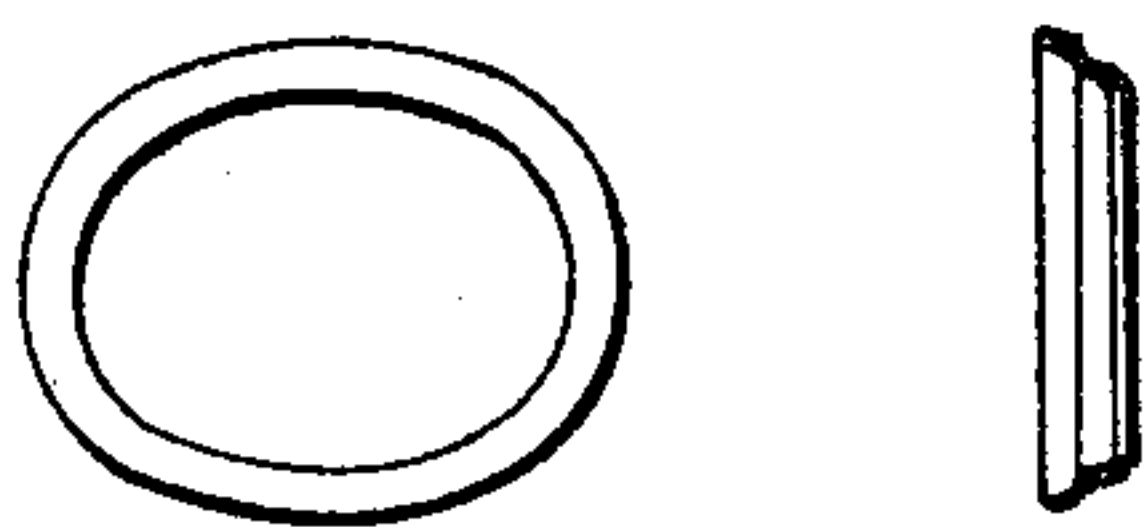


Fig. 2. Fig. 3.



Witnesses.

*Respectfully
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UNITED STATES PATENT OFFICE.

DENNIS EVERETT, OF ATTLEBOROUGH, MASSACHUSETTS.

IMPROVEMENT IN EYE-PROTECTORS.

Specification forming part of Letters Patent No. 41,209, dated January 12, 1864.

To all whom it may concern:

Be it known that I, DENNIS EVERETT, of Attleborough, in the Commonwealth of Massachusetts, have invented a new and useful Improvement in Eye-Protectors or Eye-Goggles; and I do hereby declare that the following specification, taken in connection with the drawings, making a part of the same, is a full, clear, and exact description thereof.

Fig. 1 is a view of my improved eye-protector. Fig. 2 is a view of the rim heretofore used for holding the glass. Fig. 3 is a cross-section of the same.

In manufacturing this article it has heretofore been customary to make a separate rim, Fig. 2, or setting for the purpose of holding the colored glass in the wire-cloth of which the body of the eye-protector is made. The labor necessary to form this rim and to secure it to the wire-netting constitutes a considerable fraction of the cost of the article, involving, as it does, in addition to securing the frame to the wire-cloth, the necessity of making a distinct part, which cannot be produced at the same operation which forms the wire body.

My improvement in this article consists in dispensing entirely with the separate metallic setting for the glass by forming out of the wire-cloth which constitutes the body a setting to receive the glass at the same operation which forms the body, and I also, for the purpose of giving to the article when finished the same appearance that it has when made with the metallic setting for the glass, cover that portion of the wire which composes the setting with a surface of soft metal applied when in a state of fusion.

The method by which the improvement above described is effected is to so alter the form of the dies which are used to strike up

the wire-netting that a raised bead shall be formed of wire at the place formerly occupied by the sheet-metal setting. The center space within the bead is then punched out. The glass can then be set in the concave of the bead, and when pressed against by the wire will be held quite as firmly as by the old method referred to. In order, however, to give the article the same appearance when finished that it has heretofore had, I plunge the wire-cloth, after the bead has been struck up, to the depth of an inch in molten solder or other fusible metal a sufficient number of times to accumulate it in a ridge about the edge. It is then placed between dies of the proper form and the soft metal forced into the shape of a rim. The glass is then inserted and secured as in the case before described. By this means an article fully equal in appearance to those which are made with separate rims is produced at a great economy in the cost of material and labor, while the rim so formed, especially when finished with soft metal held mechanically between the meshes of the wire-cloth, is much less liable to break, and is far superior as a means for holding the glass than the separate rim soldered to the cloth heretofore used.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. Forming the setting for the glass of an eye-protector out of the same wire-gauze of which the body is composed, substantially as described.

2. Finishing the rim or setting for the glass of an eye-protector with fusible metal applied in the manner substantially as described.

DENNIS EVERETT.

Witnesses:

J. H. STINESS,

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