F. H. KAHN.

LENS FASTENING FOR EYEGLASSES.

APPLICATION FILED APR. 19, 1912.

1,067,522. Patented July 15, 1913.

Fig. 1.

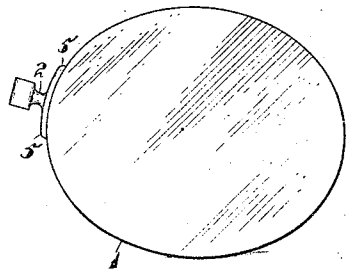


Fig. 2.

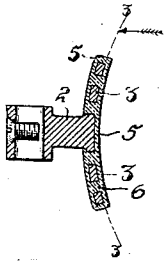


Fig. 3.

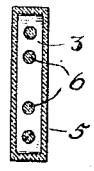
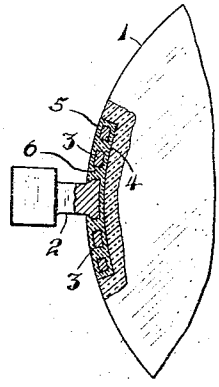


Fig. 4.



WITNESSES

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BEST AVAILABLE COPY

LENS-FASTENING FOR EYEGLASSES.

1,067,522. Specification of Letters Patent. Patented July 15, 1913.

Application filed April 19, 1912. Serial No. 691,903.

To all whom it may concern:

Be it known that I, FERNANDO H. KAHN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Lens-Fastenings for Eyeglasses, of which the following is a specification.

The present invention relates to improvements in means for securing the lenses of eye-glasses or spectacles, the object of the invention being to provide such fastening means which will be more secure and neater and inconspicuous in appearance than those at present in use.

In the accompanying drawing, Figure 1 is a front view of a lens to which my invention is applied; Fig. 2 is a section on a greatly enlarged scale in the plane of the lens, the lens itself being omitted; Fig. 3 is a section on the line 3—3 of Fig. 2; Fig. 4 is an enlarged broken side view of a modified form of the fastening.

Referring to the drawing, 1 indicates a lens of a pair of eye-glasses, although, as will appear, the invention is equally applicable to spectacles.

2 indicates a stud for securing the lens to the nose guard and bridge, said stud being formed integral with the curved arms 3. These arms are formed with perforations, four being here shown. The arms 3 are dipped in molten glass 5, preferably of a character which melts at a lower temperature than the lens. The lens is heated to substantially the same temperature as the molten glass, but, if made of glass which only melts at a higher temperature, it will, of course, not thereby be melted. If the molten glass is such that it has the same fusing point as the lens, then, after securing the stud thereto according to my present invention, the lens will have to be re-ground. The lens, and especially the part to which the arms are to be immediately secured, having been heated to the melting point of the molten glass, the arms are removed from the molten glass and are pressed against the edge of the lens, and the parts are allowed to cool. The molten glass surrounding the arms will be firmly secured to the lens, being, as it were, welded thereto, and the stud is very securely held by the glass thus adhering to the lens, and particularly by such parts 6 of said glass as pass through perforations in the arms and form anchors to unite together the layers or films of glass on opposite sides of said arms.

In the modification of the invention shown in Fig. 4, the arm 3 and glass coating 5 are sunk in a recess 4 in the edge of the lens.

Heretofore it has been the general practice to secure the stud to the lens by means of a screw passed through straps formed integral with the stud and also passed through a hole in the lens, and said arms are employed merely for the purpose of preventing rotation of said stud about said hole as a center. To so prevent this movement said arms must be exactly fitted to the edge of the lens and said edge must be eccentric to said hole. But it is found that, notwithstanding such exact fit, the lenses become loose on said screws, owing to the spreading of the arms. By my invention, said arms are rigidly and positively secured to the lens, so that they cannot work loose or be displaced. Moreover, since the screw and straps which were formerly employed are now omitted, the present fastening is much more neat and attractive in appearance than heretofore.

It will be understood that the glass which is welded to the lens is not secured to the stud by adhesion in the strict meaning of the word, but the stud is merely anchored thereto, the effectiveness of this anchorage being greatly increased by the perforations formed in the arms.

I claim:—

1. In combination with a stud having perforated arms, a coating of insoluble glass around said arms and through said perforations, and a lens secured to said coating.

2. In combination with a stud having perforated arms, a coating of insoluble glass around said arms and through said perforations, and a lens welded to said coating.

3. In combination with a stud having arms, a coating of insoluble glass around said arms, and a lens secured to said coating.

4. In combination with a stud having arms, a coating of insoluble glass around said arms, and a lens welded to said coating.

5. In combination with a lens, an anchorage of insoluble glass secured to said lens,

and a stud anchored in said glass anchorage.

6. In combination with a piece of metal having perforations, an anchorage of insoluble glass through said perforations, and glass welded to said anchorage.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FERNANDO H. KAHN.

Witnesses:
FRANCIS M. WRIGHT,
D. B. RICHARDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."