

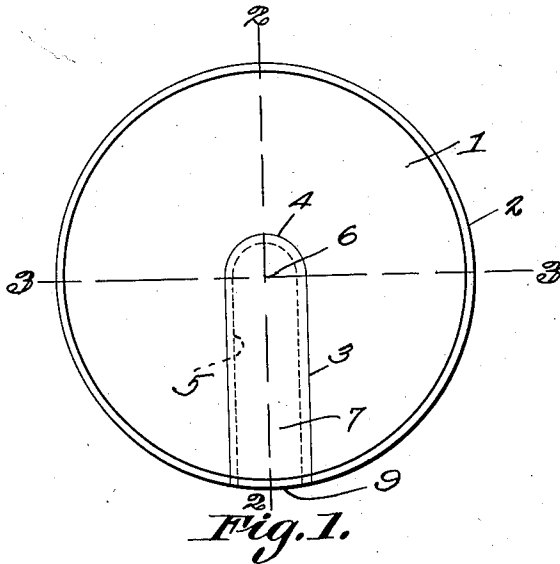
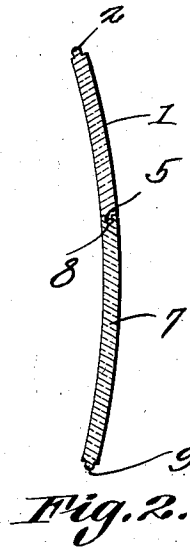
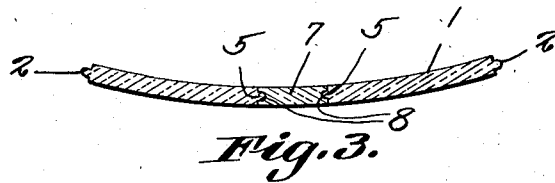
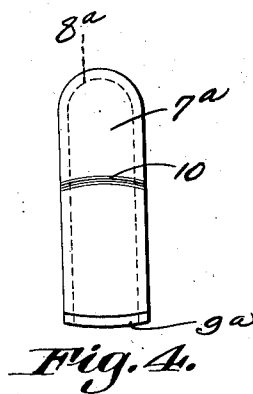
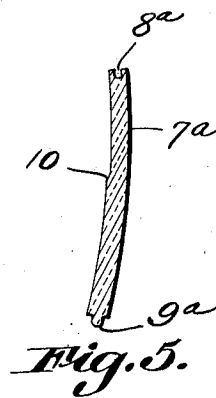
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LENS

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UNITED STATES PATENT OFFICE

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LENS

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1 Claim. (Cl. 88—54)

This invention aims to provide a lens in which necessary changes may be made quickly and conveniently, to correspond with changes in light, defects in vision and the like, through the instrumentality of an insert, novel means being provided for holding the insert in place.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:

Figure 1 is an elevation showing a lens constructed in accordance with the invention;

Figure 2 is a section on the line 2—2 of Figure 1;

Figure 3 is a section on the line 3—3 of Figure 1;

Figure 4 is a plan showing a modified insert;

Figure 5 is a longitudinal section of the insert depicted in Figure 4.

In carrying out the invention, there is provided a lens 1 having a reduced rib 2 about its periphery. In the lens 1 there is an inwardly extended parallel-sided notch 3, the inner end of which may be rounded as shown at 4. The notch 3 has a reduced rib 5 about its edge, constructed like the rib 2 of the lens 1, this similarity in the ribs 5 and 2 reducing the cost of grinding the lens. The notch 3 preferably extends inwardly somewhat beyond the optical center 6 of the lens 1, as shown in Figure 1.

An insert 7 is slidably and removably mounted in the notch 3 and is shaped to correspond with the notch, the insert having a groove 8 on its sides and on its inner end which corresponds in shape to the rib 5 of the notch 3. The outer end of the insert 7 has a rib 9 which is shaped like the edge 2 of the lens 1.

The lens 1 may be made in any size and thickness, to fill requirements for any kind of service, and to fit any kind or style of frame which the user may select. The lens 1 may be colored or tinted any preferred hue. The insert 7 preferably is a piece of clear glass. The vision of the user may range any place through the clear glass insert 7, and in case of facing a bright light, the user can tilt his head down or sidewise a small amount and look through the colored lens 1, the light being modified accordingly, and the glare which comes from headlights or from any other source may be ameliorated. The device is of use not only in connection with headlights, in driving an automobile or an engine, but, as well, may be employed by persons who work about kilns, blow torches and the like.

In Figures 4 and 5 parts hereinbefore described have been designated by numerals previously used with the suffix "a". Although no effort has been made to show the many forms which the insert may take, it will be observed that the insert 7a is thickened at 10 to indicate that it may be so constructed as to correct any defect in vision, or to provide bi-focal advantages.

Owing to the particular form of the inserts 7 and 7a, as to outline, they will hold their place readily and be capable of insertion and removal more readily than the ordinary bi-focal inserts, and when the lens 1 is enclosed in a suitable frame, the use of cement will not be necessary to hold the insert in place.

Having thus described the invention, what is claimed is:

A spectacle lens having a notch in its lower edge, and an insert filling the notch, the entire part of the lens which bounds the notch, and the corresponding edge portions of the insert, being tongue-and-grooved together, to provide for a slidable removal of the insert, the periphery of the lens being ribbed, and the outer end of the insert being ribbed to correspond with the ribbed periphery of the lens, the ribs duplicating the tongue, in cross section.

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