

H. H. STYLL & H. K. PARSONS.

CEMENT MOLD.

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1,170,197.

Patented Feb. 1, 1916.

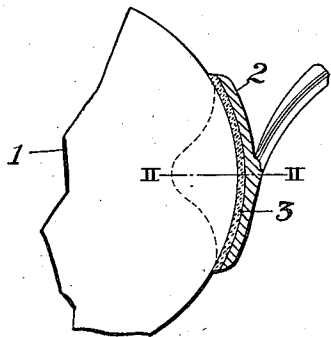


Fig. I

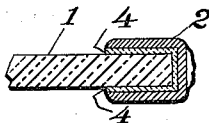


Fig. II

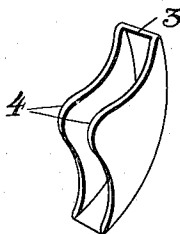


Fig. III

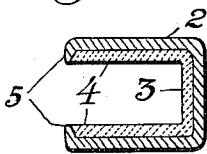


Fig. IV

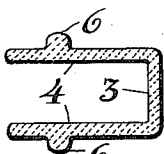


Fig. V



Fig. VI

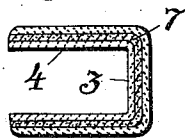


Fig. VII



Fig. IX

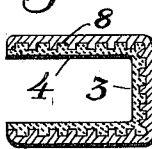


Fig. VIII



Fig. X

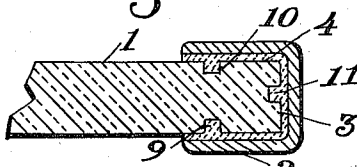


Fig. XI

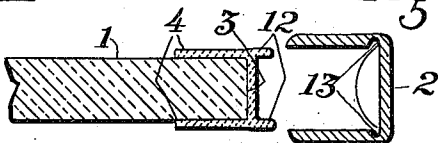


Fig. XII

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CEMENT MOLD.

1,170,197.

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To all whom it may concern:

Be it known that we, HARRY H. STYLL and HAROLD K. PARSONS, citizens of the United States, residing at Southbridge, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Cement Molds, of which the following is a specification.

This invention relates to cement molds, and more particularly to a new and novel article of manufacture which is adapted for use by opticians and other persons for cementing the straps of eyeglasses to the lenses.

The primary object of the invention is to provide a mold which can be manufactured and placed on the market in a condition for ready use, and to so construct the mold as to render the same adaptable to mountings of various design.

Another object is to provide an article of this character which will greatly reduce the cost of repairing cement mountings, and which will materially decrease the time and labor incident to such repair.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and claimed.

In the drawings: Figure I is a vertical sectional view of a mold constructed in accordance with the invention and showing the same in position for use between the lens strap and the lens. Fig. II is a horizontal section on the line II—II of Fig. I. Fig. III is a detail perspective view of the mold. Fig. IV is a horizontal sectional view illustrating a slightly modified form of mold. Fig. V is a horizontal sectional view illustrating a still further modified form of mold. Fig. VI is a horizontal sectional view showing a still further modified form of mold. Fig. VII is a similar view showing still another modified form of mold. Fig. VIII illustrates still another modified form of mold. Fig. IX is an edge view illustrating the manner in which the mold may be constructed in strip form. Fig. X is a plan view illustrating one form in which

the strips may be sold. Fig. XI illustrates a still further modified form of mold. Fig. XII is a horizontal sectional view illustrating still another modified form of mold.

Referring to the drawings by numerals, 1 designates the lens, and 2 a lens strap which is adapted to be secured thereto by an adhesive substance, such as cement or the like.

The present invention aims to provide a mold formed from cement or any other desirable material of a size and shape to be snugly received between the ears of a clip so that the same may be positioned therein and slightly heated and then applied to the lens to firmly secure the lens to the strap, or may be applied in a variety of other ways. This mold comprises a rear portion 3 for engagement with the edge of the strap and side portions 4 for engagement with the ears of the strap, the inner faces of the said side and rear portions being adapted for engagement with the sides and edges of the lens.

It is to be understood that the sides 4 of the mold are to be made of different shapes to fit the shapes of different designed lens clips, also that the material from which the mold is constructed is to be made in various thicknesses and from various materials, and that the rear portions 3 may be concave or convex and tapered longitudinally or straight, as desired, the ultimate purpose of the invention residing in the provision of a mold of this character which will greatly facilitate the operation of applying a lens to a strap.

It is desired to have it further understood that the mold piece may be made of a material which is adapted to be heated slightly after being applied to the strap so as to condition the same for securing a lens to the strap, or that the material may be of such a nature that dampening will adapt the same to the requirement of its use.

We do not wish to limit ourselves to either of the particular methods of applying the mold set forth, as it will be obvious that such operation may be accomplished in a variety of other ways.

In Fig. IV, we have shown a slightly modified form of mold, and strap, in which

the edges of the strap are turned inwardly at 5 to provide a pocket in which the mold is adapted to be placed. From this construction it will be seen that it is not absolutely necessary to fasten the mold to the strap as the edges 5 will prevent its disengagement therefrom. To apply the lens to this form of strap, it is only necessary to either slightly heat the lens or the mold, place the lens within the mold, and press the sides of the strap inwardly to force the mold into engagement with the lens. If desired, the mold may be made slightly resilient in order that the same may be sprung between the inturned edges 5 so as to obviate any necessity of heating or otherwise treating the mold before it is placed in the strap.

In Fig. V, we have illustrated a mold having laterally extending lugs 6 formed on either side thereof for engagement with the screw holes of the lens clip when the mold is used for applying a lens to an ordinary screw form of mounting. In this construction the exterior of the mold may be fastened to the interior of the strap or may be secured therein simply by reason of the engagement of the lug 6 with the screw hole, as desired, the lens being adapted to be placed within the mold and secured therein in the ordinary manner.

In Fig. VI, we have illustrated a mold in which the exterior thereof is formed from a cement or adhesive which is slow drying and which is adapted to be initially placed in the strap and secured therein, the strap and mold being adapted to be sold as an article of manufacture. The interior of this mold is formed from a suitable material which will readily adhere to glass and will require but slight heating or dampening in order to condition the same for the application of the lens therein. The two materials from which this mold is constructed may be secured together in any preferred manner, as by forming the interior portion from a granular material, and the exterior portion from a soft solder, which two substances will readily adhere together.

In Fig. VII we have illustrated a further modification of the mold in which the exterior adhesive is separated from the interior adhesive by means of a heat insulating material, such as an asbestos composition or the like, the mold being adapted to be first secured within the strap and the lens then applied thereto, the insulating material preventing discoloration of the strap when heat is applied to the interior of the mold, as will be obvious.

In Fig. VIII, we have shown a structure very similar to the construction shown in Fig. VI but differing therefrom by reason of the provision of the teats 8 upon the exterior face of the interior lens engaging substance so as to more firmly connect the

soft solder thereto and prevent any likelihood of the two substances becoming disengaged one from the other.

In Figs. IX and X, we have shown the mold as being constructed in strip form and as being suitably cut or stamped so as to require a minimum of labor on the part of the optician or other person who applies the mold to obtain a mold of the correct size and shape to fit the particular mounting to which it is adapted to be secured, the dotted lines illustrating some of the variations in the manner in which the clip may be cut.

In Fig. XI, we have shown the mold as being provided with one or more lugs 9 extending inwardly from the sides thereof for engagement with recesses 10 formed in the sides of the lens, and one or more lugs 11 formed on the inner rear face of the mold for engagement with recesses formed in the edge of the lens.

In Fig. XII the mold is shown as being provided adjacent the outer corners thereof with vertically extending flanges 12 for engagement with recesses 13 formed in the corners of the strap, the mold and flanges 12 being adapted to be heated and forced within the recesses 13 so that when the flanges harden they will prevent accidental disengagement of the strap from the mold, the mold being of any construction set forth and being applied to the lens in any desired manner.

From the foregoing description taken in connection with the accompanying drawings, it is thought that the construction and operation of the device will be clearly understood, and while we have herein shown and described one specific form of our invention, we do not wish to be limited thereto, except to such limitations as the claims may import.

We claim:

1. In an ophthalmic mounting, the combination with a strap member in the form of a laterally open box, of a heat actuable adhesive formed on and adhering to the inner face of the strap, whereby heating of the strap will soften the adhesive to cause it to firmly engage and secure a lens as pressed into the strap.

2. As an article of manufacture, an eyeglass strap comprising a box portion adapted to embrace the lens, and a heat actuable adhesive lining carried by the inner face of the strap, whereby the strap may at any time be attached to or detached from a lens by simply heating thereof.

3. As an article of manufacture, a mount for an ophthalmic lens, comprising a strap having edge engaging and side engaging portions for cooperating with the lens, and a hardened adhesive adhering to and lining the strap, whereby heating thereof will soften the same to a condition to satisfac-

torily adhere to and secure a lens within the strap, substantially as and for the purpose described.

4. As an article of manufacture, a mold
5 including means to secure the same to a strap and a lens, the strap and lens engaging portions of the mold being formed from different adhesive material.

5. As an article of manufacture, a mold
10 including means to secure the same to a strap and a lens, the strap and lens engag-

ing portions of the mold being formed from different adhesive material and separated by a non-conductive material.

In testimony whereof we affix our sig- 15
natures in presence of two witnesses.

HARRY H. STYLL.
HAROLD K. PARSONS.

Witnesses:

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JOSEPH J. DEMERS.