

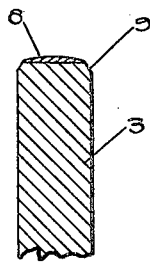
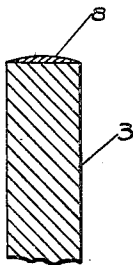
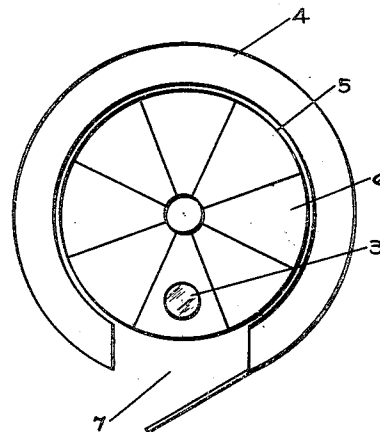
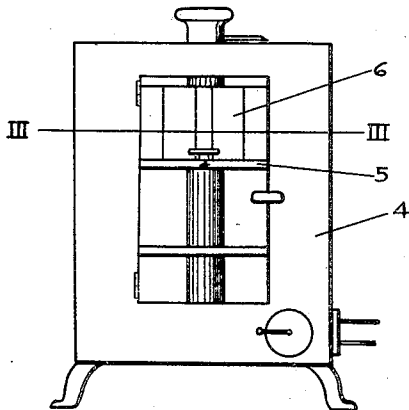
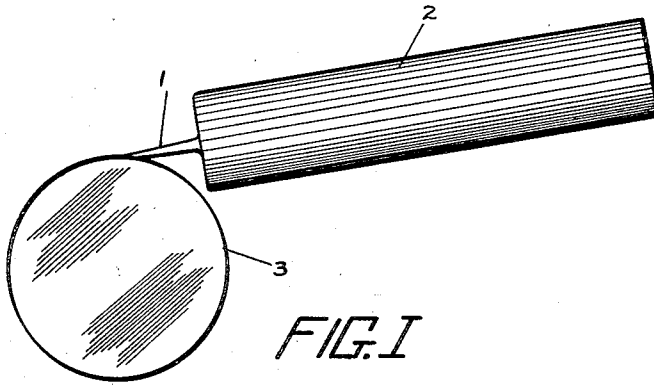
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W. J. WRIGHTON

PROCESS OF COATING EDGES OF LENSES

Filed Aug. 11, 1922



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UNITED STATES PATENT OFFICE.

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PROCESS OF COATING EDGES OF LENSES.

Application filed August 11, 1922. Serial No. 581,094.

To all whom it may concern:

Be it known that I, WILLIAM J. WRIGHTON, a citizen of the United States, residing at Southbridge, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Processes of Coating Edges of Lenses, of which the following is a specification.

This invention relates to a new and improved process for coating the edges of rimless lenses and relates particularly to that type of a lens wherein the edge of the lens is so constructed as to reflect a dangerous light across the eyes of the wearer.

The main object of my invention is the process of applying a coating or the like to the edge of an ophthalmic lens to prevent dangerous rays of light from being reflected thru the edge of the rimless lenses, especially the minus type of lens wherein the outer edge of the lens is considerably wider than the central portion thereof, the wider portion of the lens reflecting a light directly across the eyes of the wearer which is very dangerous if not prohibited.

At the present time there is placed upon the market what is known as a colonial shaped lens. It is another object of my invention to provide a process for applying a coating to the edges of these various types of lenses so as to eliminate the reflection of the light from the edge of the lens across the eyes of the wearer as in a great many cases the edges of the lens are beveled and will reflect this light very quickly.

With the above and other objects in view the invention consists in the novel features of construction, the combination and arrangement of parts hereinafter more fully set forth, pointed out in the claims and shown in the accompanying drawings, in which—

Figure I is a side elevation of a lens and tube illustrating the manner in which the material is applied to the edge of the lens.

Figure II is a front elevation of a baking oven used in connection with my improved process.

Figure III is a horizontal sectional view thru the baking oven taken on line III—III in Figure II.

Figure IV is a sectional view of a lens

showing the enamel or coating applied thereto, and

Figure V is a similar view illustrating the bevel at the edge of the lens.

In carrying out my improved process the lens is first cleansed with a soft clean cloth and any dust or hair removed from the rim of the lens with a small camel-hair brush or the like. The lens is then either held in the hand or rotated slowly in any desired manner while the nozzle 1 of the tube 2 is arranged over the edge of the lens, pressure exerted upon the exterior of the tube 2 forcing the enamel thru the nozzle 1 onto the periphery of the lens 3.

After this enamel or coating has been applied to the edge of the lens the lens is placed in the heating oven 4 having a rotating shelf portion 5 containing a plurality of compartments 6 whereby the different coating or enamel jobs to be done can be placed in individual cells within the baking oven so that should the operator desire to remove any particular job contained within the shelves they can rotate the shelf portion 5 until the proper compartment is brought before the door opening 7, whereby the lens may be quickly removed from the compartments.

In the baking of this coating or enamel various baking times are used in accordance with the arrangement of the lenses in the oven. The lenses on the lower shelf near the heated chamber will bake considerably quicker than the lenses toward the top, therefore, the timing of the baking must be arranged accordingly.

After the coating has been baked to the proper degree the edges of the lens may be beveled off to assure a clean cut and sharp edge of the enamel. After this has been done the final polish is applied to the rim by rubbing or if it is desired a solvent can be applied to the coating and polished with a soft cloth so that a clean glossy appearance is brought out. It is to be understood that a rather high gloss finish is produced from this coating although if desired a rough surface may be applied thereto.

In Figure IV I have illustrated a sectional view of a lens showing the rim 8 in place upon the edge of the lens while in Figure V a substantially completed lens is illus-

trated showing the corners beveled off as at 9 which produces a very neat finished product.

What I claim is—

1. The process of coating lens edges consisting in applying a plastic coating to the edge of the lens, baking this coating to a hardened condition, applying a solvent to the baked coating and polishing the same to a finished condition.

2. The process of coating lenses consisting in applying a plastic coating to the edge of the lens, placing the coated lens in a heated oven and baking the same, apply-

ing a solvent to the baked coating and polishing the surface of the coating and beveling the opposed side edges of the lens. 15

3. The process of coating lens edges consisting in cleansing the lens, forcing a plastic coating from a tube onto the periphery of the lens, placing the lens into a heating oven whereby to bake the plastic coating, after which the lens is removed, bevelling the edge of the lens, applying a solvent to the plastic coating, and then polishing the same to the desired finish. 20 25

WILLIAM J. WRIGHTON.