Dec. 2, 1924. 1,517,685

W. S. SEARLES

OPHTHALMIC MOUNTING

Filed Aug. 19, 1922

Fig. 1

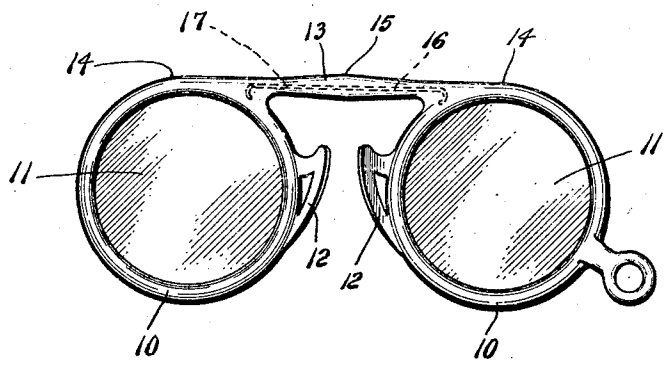


Fig. 2

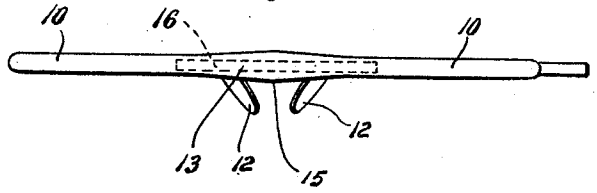
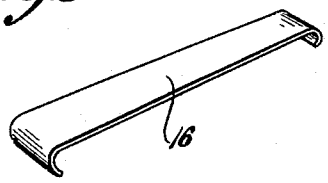


Fig. 3



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UNITED STATES PATENT OFFICE.

WAYNE S. SEARLES, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO UNIVERSAL OPTICAL CORPORATION, OF PROVIDENCE, RHODE ISLAND, A CORPORATION OF RHODE ISLAND.

OPHTHALMIC MOUNTING.

Application filed August 19, 1922. Serial No. 582,879.

To all whom it may concern:

Be it known that I, WAYNE S. SEARLES, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Ophthalmic Mountings, of which the following is a specification.

This invention relates to improvements in the construction of ophthalmic mountings more particularly to that class of mountings commonly known as "Oxfords", and has for its object to provide in such a mounting a pair of non-metallic lens rims connected adjacent their upper edges by a resilient bridge member of non-metallic material which is adapted to apply a gripping pressure to the nose-engaging portions of the frame.

A further object of the invention is to connect a cooperating metal spring member to said bridge member.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claims.

Figure 1 is a side elevation of my improved eyeglass mounting.

Figure 2 is a top edge view of the mounting.

Figure 3 is an enlarged perspective view of the cooperating bridge spring removed.

It is found in practice desirable to provide a so-called "Oxford" type of mounting which is constructed of non-metallic material, which comprises a pair of lens rims connected together at their upper edges by a resilient bridge member which is also of non-metallic material, which bridge is formed with sufficient resiliency to exert the proper amount of nose gripping pressure upon the nose-engaging portions of the rims, the stiffness of the bridge being such as to always maintain the frames in their extended positions and ready for immediate use at all times and when made entirely of the same material as the rims the mounting is rendered handsome, attractive and distinctive in appearance, and the following is a detailed description of one means by which these results may be accomplished:—

With reference to the drawings, 10 designates the frames or rims in which the lenses 11 are mounted, which frames are formed wholly or in part of non-metallic materials such as celluloid, zylonite, shell or other suitable material and each is provided with a nose-gripping or engaging member 12 on its inner edge which may be formed of any suitable material that shown being formed of the same material as that of the frames.

These rims are connected together at their upper edges by a bridge member 13 which may be formed approximately straight if desired, with its upper edge 14 tangent with the periphery of the rim, or it may be formed in any other desired shape and this bridge is preferably formed of the same or similar material as that of the rims and may be cut with the rims from a sheet of stock, if desired or connected thereto in any desired manner.

This bridge shown in the drawings is a little thicker at its center portion 15 than at its ends, the stock being such as to provide sufficient strength and resiliency to cause the nose-engaging members 12 to grip the nose with sufficient tension to hold the frame in position on the face of the wearer by a nose-gripping pressure.

In some instances it is found desirable to apply a metal spring member 16 to this non-metallic bridge portion to cooperate therewith to strengthen the same and enhance its yieldability, that is permitting a greater bending range without breaking, the steel influencing the bridge to return each time to normal and also to assist it in applying the proper amount of tension to the nose-engaging portions of the frame.

In some instances, I slot the rear edge of the bridge laterally as at 17 and insert this spring endways into the slot and subsequently fill in the entering edge of the slot or burnish the non-metallic material over the slot to cover the spring set therein, but I do not wish to be restricted to this particular style of spring, or of this particular way of attaching the spring to this bridge member as any style of spring may be employed and connected to the bridge in any desired manner.

My improved mounting is very handsome and attractive in appearance and is strong and durable in construction.

The foregoing description is directed solely towards the construction illustrated,

but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claims.

I claim:

1. An ophthalmic mounting comprising a pair of non-metallic lens rims having nose-gripping portions and said rims being connected together adjacent their upper edges by a substantially tangentially-disposed resilient non-metallic bridge bar extending directly across between the rims and formed structurally integral at its ends with said rims for applying tension to said nose-gripping portions.

2. In an ophthalmic mounting, a pair of non-metallic lens rims having nose-gripping portions and connected together adjacent their upper edges by a non-metallic resilient bridge bar, and a metal tension spring embedded in and extending along the bridge to cooperate therewith and support the bridge against breaking when bent.

3. In an ophthalmic mounting, a pair of non-metallic lens rims connected by a non-metallic semi-rigid bridge, and a bar of spring metal connected to said bridge to support the bridge in proper operating position and to assist the bridge in applying a nose-gripping tension on said rims.

4. In an ophthalmic mounting, a pair of non-metallic lens rims having nose-gripping portions and connected by a non-metallic resilient bridge, and a cooperating metal spring member imbedded into the stock of said bridge to yieldably support the bridge in position to exert the desired tension on the nose-grips.

5. An ophthalmic mounting comprising a pair of non-metallic lens rims having nose-gripping portions and connected together adjacent their upper edges by a resilient non-metallic bridge, said bridge being slotted, and a metal spring imbedded into said slot to enhance the yieldability of said bridge.

6. In an ophthalmic mounting, a pair of non-metallic lens rims having nose-gripping portions and connected by a non-metallic resilient bridge, a metal spring member imbedded into the stock of said bridge to assist in applying tension to said nose-engaging portions, and portions of said spring being bent out of the plane of its body portion to lock it in its imbedded position.

In testimony whereof I affix my signature.

WAYNE S. SEARLES.