

W. R. UHLEMANN.
EYEGLASS MOUNTING.
APPLICATION FILED MAR. 29, 1909.

970,578.

Patented Sept. 20, 1910.

Fig. 1.

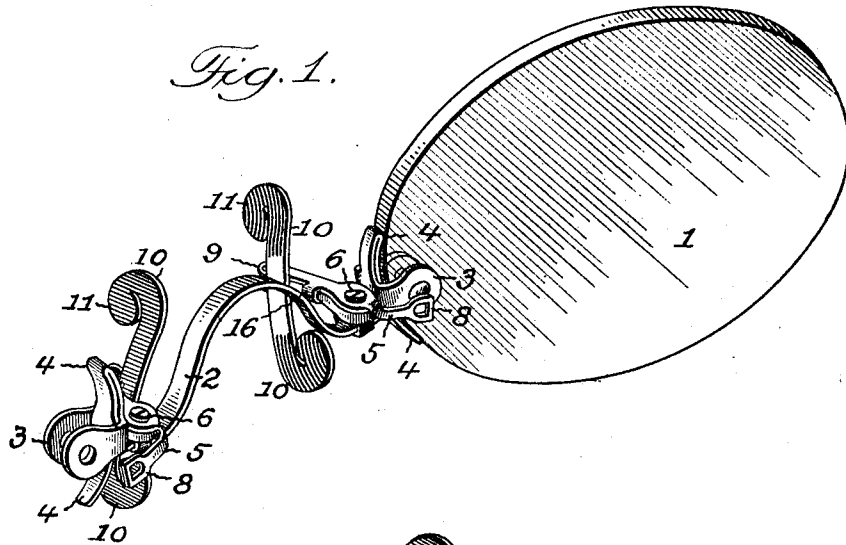


Fig. 2.

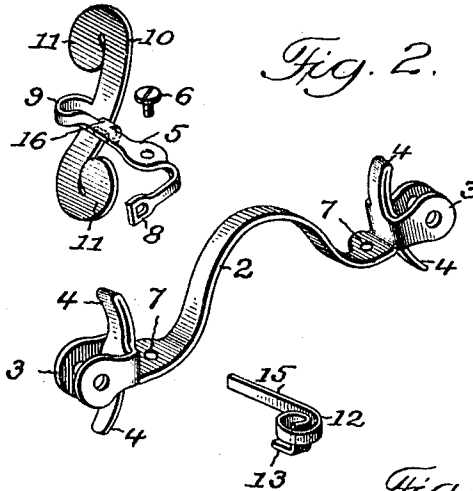


Fig. 3.

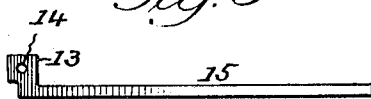


Fig. 4.

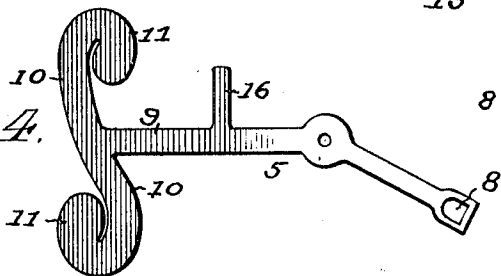


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM R. UHLEMANN, OF CHICAGO, ILLINOIS.

EYEGGLASS-MOUNTING.

970,578.

Specification of Letters Patent. Patented Sept. 20, 1910.

Application filed March 29, 1909. Serial No. 486,486.

To all whom it may concern:

Be it known that I, WILLIAM R. UHLEMANN, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Eyeglass-Mountings, of which the following is a specification.

This invention relates more especially to the frameless type of eyeglasses, and has for its different objects:—First—to provide a simple and efficient construction of the manually actuated lever and nose piece or grip, and involving the ready, and economical production of said parts as one piece, with the retention of the original resiliency of the metal from which said members are formed. Second, to provide a simple and efficient one piece construction of the spring for actuating the nose grip carrying lever, with which the attachment of the spring to the eyeglass bridge is attained in a simple and very substantial manner. All as will hereinafter more fully appear.

In the accompanying drawings: Figure 1, is a perspective view of a rimless eyeglass mounting, with the lens to the left removed to more effectively illustrate the detail construction and arrangement of the present invention. Fig. 2, is a perspective view of the arched bridge and attaching clips, the nose piece or grip and carrying lever, the spring and the pivot screw, in a detached condition. Fig. 3, is an elevation of the blank or stamping from which the nose grip spring is formed. Fig. 4, is a similar view of the blank or stamping from which the integrally connected nose grip and carrying lever are formed. Fig. 5, is a detail perspective view of a modified construction of the carrying lever of the nose piece or grip.

Similar numerals of reference indicate like parts in the several views.

Referring to the drawings, 1 represents the rimless lens of a pair of eyeglasses, and 2 the rigid arched bridge connecting the lenses together in proper spaced relation.

3 are attaching clips provided with resilient bracing members 4, said parts being preferably of an integral construction with the arched bridge 2, aforesaid, in manner set forth in detail in my companion application for patent Serial No. 486,485, filed on an even date herewith.

5 are the levers which carry the nose piece

or grips hereinafter described. Said levers extend transversely of the bridge 2 and are pivoted thereto, about midway their length by the pivot screws 6 screwing into the pivot enlargements 7 at the base of the arched portion of the bridge as shown. The forward arms of the levers are curved outwardly and end in enlarged skeleton finger pieces 8, of an approximately U form, and adapted to be manipulated by the fingers of the user as usual in the present type of eyeglasses. The rear arms of said levers are of an approximately straight form and end in resilient loops 9 which connect the levers to the respective nose pieces or grips 10. In the preferred form of the present improvement each lever with its individual grip, as well as the spring engaging hook hereinafter described, are integrally formed from a single blank or stamping of the flat form shown in Fig. 4, and subsequently bent and otherwise manipulated to form the completed article illustrated in Figs. 1 and 2; the object being to provide economy in manufacture and to preserve the original resiliency of the material, which resiliency would be affected more less by the heat were the parts made separate and assembled by the usual brazing operation.

10 are the nose pieces or grips above referred to, and preferably comprising main body portions curved in reversed directions and ending in return bends 11 of a lobular form, as set forth in detail in my application Serial No. 500,413.

12 are springs individual to the levers 5, and which in the present improvement are formed from flat blanks of the form shown in Fig. 3, each blank comprising a rectangular end portion 13 formed with a central orifice 14, and an elongated tongue offset from said end portion 13 as shown. In forming the spring from said blank, the rectangular end portion 13 and elongated tongue 15 are bent into right-angle relation to each other, after which the middle portion of said tongue is bent into a volute form around an axial line passing through the orifice 14 aforesaid, and in a plane a small distance removed from the end portion 13 so as to leave a space between the two portions, and so that said portions may straddle the arched bridge 2 of the eyeglass when the parts are assembled. The free end of said tongue 15 extends away from the volute portion aforesaid and is adapted to engage

in a stirrup 16 provided therefor on the lever 5, and preferably formed by a lateral tongue on said lever, bent into a stirrup shape as shown. With the described arrangement, the connection of the tongues or extensions 15 of the springs 12 to the levers 5, are made at distant points from the pivot axis of said levers, and said extensions are thus utilized to attain increased smoothness and uniformity in the coiling and uncoiling of the springs.

In an assemblage of the parts above described, the spring 12 will be engaged with the arched bridge 2, as above described, after which the lever 5 is superimposed above the spring, and the attaching screw 6 inserted through the parts to effect the desired pivotal connection.

In the modified form of the nose grip lever 5' shown in Fig. 5, the lever is shown as a separate piece, and is rigidly connected to a nose piece or grip by a rectangular stirrup formation 17 on its rear end, into which the central portion of the nose grip fits and is secured by an attaching screw. In order to provide the proper thickness of metal at the heel of the stirrup formation 17 to receive the attaching screw the metal of said stirrup is folded upon itself as shown.

Having thus fully described my said invention what I claim as new and desire to secure by Letters Patent, is:—

1. In an eyeglass of the type herein described, the combination of a rigid arched bridge, a pair of levers pivoted thereon at opposite sides of the arch of said bridge, nose grips carried by said levers, and operating springs of a volute form interposed between the levers and the bridge and protected thereby, the inner ends of said springs being connected to the bridge and the outer ends to the levers, substantially as set forth.

2. In an eyeglass of the type herein described, the combination of a rigid arched bridge, a pair of levers pivoted thereon at opposite sides of the arch of said bridge and provided with stirrups at the rear of their points of pivotal attachment, nose grips carried by said levers, and operating springs

of a volute form interposed between the levers and the bridge and protected thereby, the inner ends of said springs being connected to the bridge and the outer ends to the aforesaid stirrups of the levers, substantially as set forth.

3. In an eyeglass of the type herein described, the combination of a rigid arched bridge, a pair of levers pivoted thereon at opposite sides of the arch of said bridge, nose grips carried by said levers, each lever having an intermediate resilient loop and spring attaching stirrup, and springs attached to the bridge between said bridge and the levers, said springs surrounding the pivot axis of the levers and having extensions or tongues engaging the aforesaid attaching stirrups of the levers, substantially as set forth.

4. In an eyeglass of the type herein described, the combination of a rigid arched bridge, a pair of levers pivoted thereon at opposite sides of the arch of said bridge, nose grips carried by said levers, and springs interposed between said levers and bridge, each spring comprising a flat orificed end portion and an elongated tongue portion bent into a volute form, the two portions of the spring being separated to form a receiving cavity for the eyeglass bridge, substantially as set forth.

5. In an eyeglass of the type herein described, the combination of a rigid arched bridge, a pair of levers pivoted thereon at opposite sides of the arch of said bridge, nose grips carried by said levers, and springs interposed between said levers and bridge, each spring comprising a flat orificed end portion and an elongated tongue portion bent into a volute form and having a projecting end engaging a lever, the two portions of the spring being separated to form a receiving cavity for the eyeglass bridge, substantially as set forth.

Signed at Chicago, Illinois, this 26th day of March 1909.

WILLIAM R. UHLEMANN.

Witnesses:

RICHARD H. UHLEMANN,
JOHN H. DONOVAN.