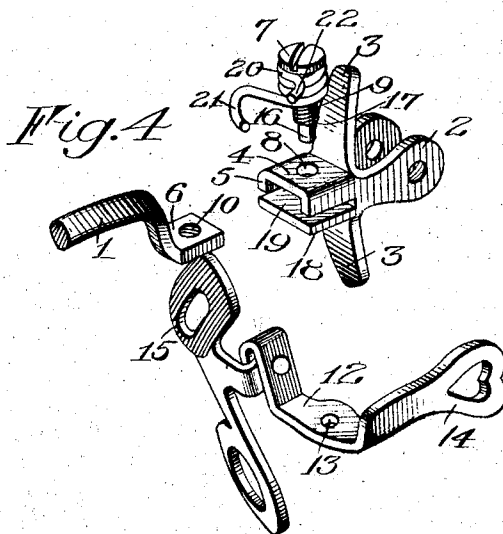
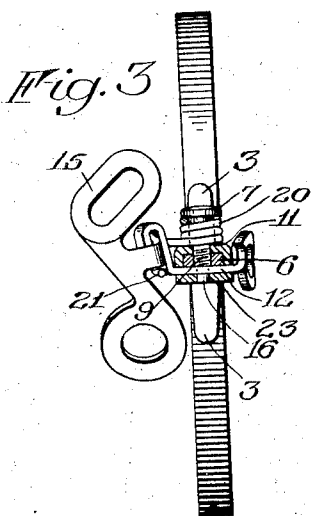
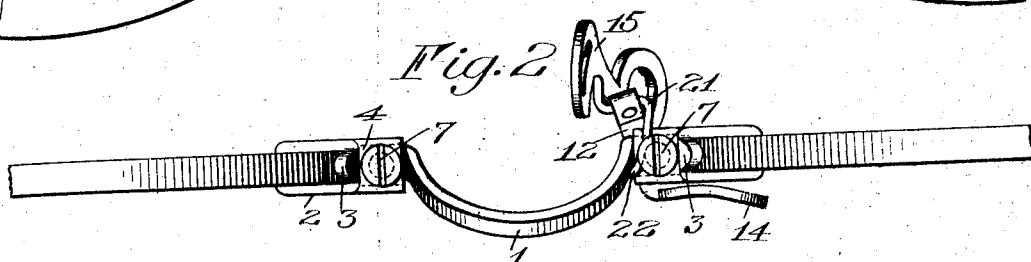
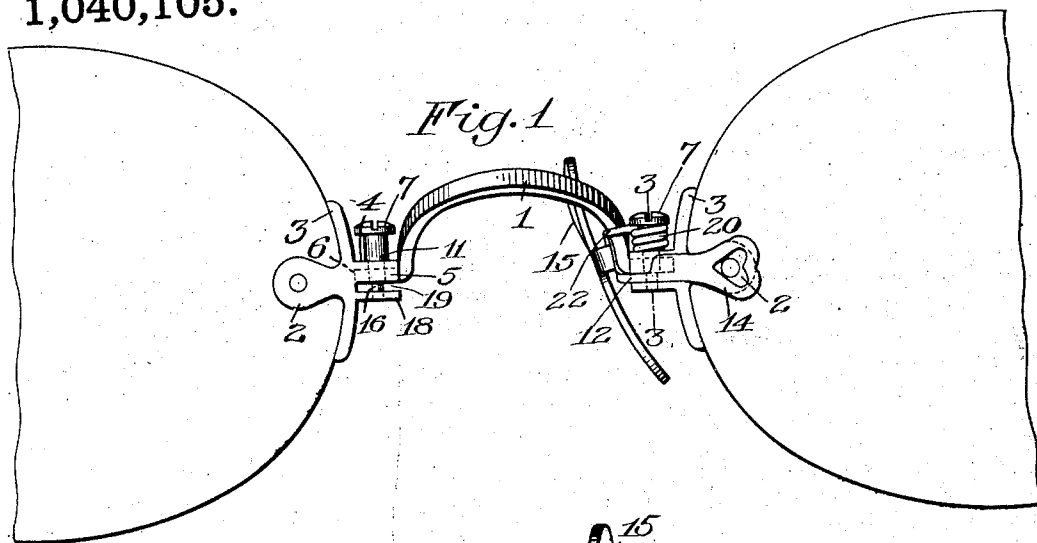


L. F. ADT.
EYEGLASSES.
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Patented Oct. 1, 1912.

1,040,105.



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EYEGLASSES.

1,040,105.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEO F. ADT, of Albany, in the county of Albany and State of New York, have invented certain new and useful Improvements in Eyeglasses; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention relates to eyeglasses and more particularly to eyeglasses of the finger piece and stud types, the latter involving a removable bridge, and it has for its object to provide a simple and efficient mode of securing together the bridge and lens attaching portions.

A further object of the invention is to provide a firm and serviceable bearing for the guard lever that will maintain it against movement in any but its intended plane of operation.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a front elevation of an eyeglass constructed in accordance with and illustrating one embodiment of my invention, the left hand guard lever and its actuating spring being removed; Fig. 2 is a top plan view; Fig. 3 is a vertical section taken substantially on the line 3—3 of Fig. 1, and Fig. 4 is a collective view showing the various parts in perspective in a manner suggesting the method of assembling.

Similar reference numerals throughout the several figures indicate the same parts.

By way of briefly explaining what is meant by "stud" eyeglass, it may be said that this term is used in the trade to designate one in which the bridge is removable as a unit from the rest of the mounting, so that with an eyeglass of a given design the optician in fitting the nose of the patient is enabled to use any of a plurality of interchangeable bridges of different lengths and shapes, and after selecting a bridge of proper size and contour may quickly assemble the rest of the mounting, which is the same in each case, about it as a nucleus. In the practice of my present invention, I provide such a bridge 1, and lens attaching portions,

comprising in the present embodiment the usual ears 2 for the lens screw and edge engaging ears 3, and as the mode of attaching each end of the bridge to one of the lens attaching devices is the same, a description of one side of the mounting will suffice for both. In this view, one of the parts, in the present instance the lens attaching portion, is provided with a box embodying a horizontal top wall 4 and vertical side walls 5 proceeding downwardly therefrom. The box so formed is adapted to receive a preferably similarly shaped attaching portion 6 on the other member or bridge that is inserted therein in a lateral direction, and being rigidly supported against movement forwardly and rearwardly by the side walls of the box, is clamped in place against disengagement through the open bottom opposite the top horizontal wall 4 by a suitable fastener 7. This fastener, in the present instance, embodies a headed screw that passes through an opening 8 in the top wall 4 of the box, and has an intermediate portion 9 that is threaded into an aperture 10 in the attaching portion 6 of the bridge. Above the threaded portion is a shoulder 11 that abuts against the exterior of the wall 4 and aids in drawing the parts closely together.

A nose guard of any suitable design of the type mentioned, may be employed, but I prefer to construct it with a flat intermediate bearing portion 12, having an aperture 13 therein for the pivot, the forwardly extending finger portion being indicated at 14 and the nose engaging portion at 15. The cooperating portions of the bridge and lens attaching portions form a support for the lever and the fastener 7 is utilized as a pivot. To this end, the lower extremity of the latter beyond the threaded portion 9 is reduced, as indicated at 16, and projects downwardly beneath the said support so that the shoulder 17 thereon, that is formed at the junction of the reduced portion 16 and the threaded portion 9, lies flush with the underside of the attaching portion 6 of the bridge and with the lower edges of the side walls 5 of the box. The aperture 13 in the lever 12 receives the reduced portion 16 of the fastener and one side of the lever, as the latter turns on the fastener as a pivot, is provided with an extended bearing by the adjacent surfaces of the shoulder 17, the attaching portion 6 of the bridge and the walls

5 of the box. It is held against this bearing by the engagement with its opposite side of a projection 18, arranged in the present instance on the lens attaching portion. This projection presents a broad bearing surface also, parallel with that on the support and preferably coextensive, so that in effect a laterally opening pocket 19 is provided in which the lever may be inserted edgewise or transversely before the fastener 7 is applied, and then secured by the latter as the fastener advances during the process of fastening the bridge and lens attaching portions together. The spring 20 for actuating the lever toward the nose is removed from the vicinity of the lever and preferably mounted on the fastener 7. In the present embodiment it is coiled about the latter to be retained between the head thereof and the wall 4 of the box with one end hooked at 21 to cooperate with the guard 12 while the other end 22 engages the bridge or any convenient portion of the support. The removal of the fastener thus reduces the mounting to its component parts attaching the bridge, lens attaching portions, spring and guard. The reduced end 16 preferably continues through the guard lever and into an aperture 23 in the projection 18.

Aside from other features, it will be noted that the construction above described enables the guard to be readily positioned during assembling, and when in its position within the pocket it so supports the securing portion 6 on the bridge within the box on the lens attaching portion that the parts are easily held against disarrangement during the insertion of the fastener, and furthermore, as the spring 20 may be first applied to the fastener to come into place with the application of the latter, its ends are easily interlocked with both the guard lever and a stationary part without distortion of either the spring or the lever, as is necessary in a great many mountings.

I claim as my invention:

1. In eyeglasses, the combination with a lens attaching portion and a bridge separate therefrom, of a fastener for securing said parts together extending through both of them, a shoulder on the fastener acting against one side of one of them, a bearing portion on the fastener extending beyond the opposite side of both, a guard lever turning on the bearing and a spring for operating the lever coiled about the fastener to one side of the lens attaching portion, bridge and lever.

2. In eyeglasses, the combination with a lens attaching portion and a bridge separate therefrom, of a fastener for securing said parts together extending through both of them, a shoulder on the fastener acting against one side of one of them, a bearing on the fastener extending beyond the oppo-

site side of both, a guard lever turning on the bearing and a spring for operating the lever coiled about the fastener and located on the same side of the parts as is the shoulder.

3. In eyeglasses, the combination with a lens attaching portion and a bridging portion separate therefrom, of a fastener extending through both parts for securing them together, a shoulder on the fastener acting against one side of one of them, a second shoulder on the other side of said part and a guard lever turning on the fastener in engagement with said second shoulder.

4. In eyeglasses, the combination with a lens attaching portion and a bridging portion separate therefrom, of a fastener extending through both parts for securing them together, a shoulder on the fastener acting against one side of one of them, a second shoulder on the opposite side of said part, a guard lever turning on the fastener having one side in engagement with the shoulder and a part cooperating with the other side of the lever to hold it against the shoulder.

5. In eyeglasses, the combination with a lens attaching portion and a bridging portion separate therefrom, of a fastener for securing said parts together to form a support and having portions projecting from opposite sides of both of them, a shoulder on one such projecting portion spaced from the support, a spring coiled about the same between the shoulder and support and a guard lever pivoted on the other projecting portion and actuated by the spring.

6. In eyeglasses, the combination with a lens attaching portion and a bridging portion, one of said parts being provided with a box having vertical side walls and a horizontal wall, the side opposite the latter being open, and the other part being provided with an attaching portion adapted to lie within the box, of a projection on one of the parts arranged in spaced relation to the open side of the box and a guard lever operating between such projecting portion and the edges of the vertical walls of the box.

7. In eyeglasses, the combination with a lens attaching portion and a bridge separate therefrom, of a fastener for securing said parts together extending through one of them and having a threaded portion engaging the other, said fastener being provided with a cylindrical reduced portion beyond the threaded portion and a guard lever pivoted on such reduced portion.

8. In an eyeglass mounting, the combination with a support having a laterally opening pocket formed between two spaced members of an apertured guard lever adapted to extend forwardly and rearwardly of the mounting and to be inserted laterally within

the pocket, a removable pivot for the lever extending through the pocket and within the aperture of the lever and a spring for actuating the latter mounted exteriorly of the pocket.

5 9. In an eyeglass mounting, the combination with a support having a laterally opening pocket formed between two spaced members, of an apertured guard lever adapted
10 to extend forwardly and rearwardly of the

mounting and to be inserted laterally within the pocket, a removable pivot for the lever extending through the pocket and within the aperture of the lever and a spring for actuating the latter mounted on the pivot pin
15 exteriorly of the pocket.

LEO F. ADT.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."