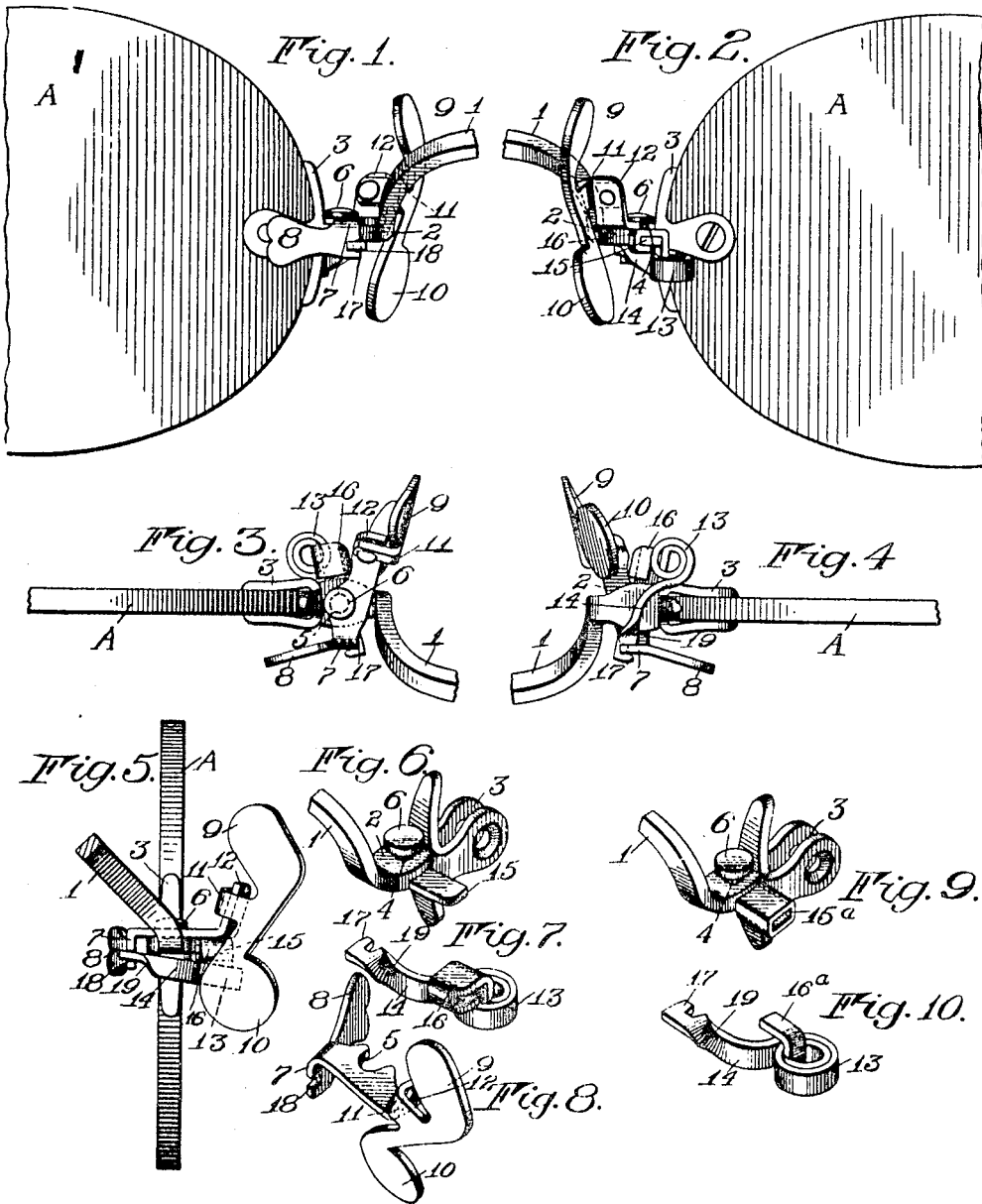


L. F. ADT.
EYEGLASS MOUNTING.
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1,042,376.

Patented Oct. 29, 1912.



Witnesses

Nelson C. C. C.
A. W. Simms

L. F. Adt Inventor

By *Church & Rich*
His Attorneys

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UNITED STATES PATENT OFFICE.

LEO F. ADT, OF ALBANY, NEW YORK.

EYEGGLASS-MOUNTING.

1,042,376.

Specification of Letters Patent.

Patented Oct. 29, 1912.

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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 Eyeglass-Mountings; 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.

The present invention relates to eyeglass mountings, and more particularly to that type in which the nose guards are mounted to swing relatively to the support for the lenses; an object of the invention being to mount the springs in such a position that they will be inconspicuous when the mounting is viewed from the front, and a maximum resiliency will be obtained.

Another object of the invention is to provide for mounting the springs in such a manner that the latter may be quickly detached for the purpose of repair or the substitution of other nose guards without the necessity of employing separate fasteners which are not only liable to work loose and become lost but to increase the size of the mounting.

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 an enlarged front view of one embodiment of an eyeglass mounting showing portions in proximity to one of the guards; Figs. 2, 3 and 4 are respectively a rear, a top and a bottom view of the same portions; Fig. 5 is a central vertical section of the mounting; Figs. 6, 7 and 8 are detail perspective views, respectively, of a portion of the support, a spring and a guard such as shown in Figs. 1 to 5, and Figs. 9 and 10 are detail perspective views of the support and a spring of another embodiment of the invention.

Referring more particularly to the drawings A indicates the lenses connected by a support comprising preferably a bridging portion 1 having horizontal seats 2 at its ends rigidly secured to the lens attaching

devices 3. Mounted to swing on the support, preferably in a horizontal plane, are the nose guards, the swinging in this instance being effected by a pivot pin 4 which may project upwardly from the horizontal portion 2 of the support to coöperate with a bearing 5 on the guard, the bearing opening laterally so that the guard may be removed from beneath the head 6 on the upper end of the pivot or bearing 4.

Each guard preferably embodies a lever provided intermediately of its ends with the recess 5 and having one end projecting forwardly of the plane of the lenses and the other end projecting in rear of said plane, the forward end in this instance being turned downwardly at 7 and outwardly at 8 to provide a finger piece. The rear end of the lever carries a nose bearing portion preferably embodying upper pad 9 and lower pad 10, and having an arm 11 arranged intermediately of the pads and secured to an upright portion 12 on the lever.

The spring of each guard may be in the form of a true spiral coil 13 arranged in a plane in rear of the lenses and having a forwardly projecting arm 14 preferably operating on that side of the support opposite that on which its guard is mounted, its outer end coöperating with its guard in advance of the pivot of the latter. As a means for securing each spring to the support, the latter may be provided with a projection 15 extending rearwardly from the rear face of the support and receiving the recessed portion or socket 16 arranged above the coil 13, thus permitting the spring to be detached quickly from the support.

Accidental separation of the spring from the support may be prevented by providing the spring with a hook or recessed portion 17 at the forward end of the arm 14 to interlock with the recessed portion 18 on the guard in advance of the pivot. This form of the spring may be made from flat stock with a lateral projection at one end, the lateral projection being bent transversely of the stock to provide the socket member 16 and the stock in proximity to the socket member being coiled about a vertical axis into a true spiral. That portion of the stock beyond the coil 13 is twisted at 19 in order to present the flat face at the extreme

end of the spring horizontally, thus giving strength to the portion which must receive the greatest strain.

In Figs. 9 and 10 the connection between the spring and the support is established by providing a socket member 15^a on the support to receive a projection 16^a on the spring, the other part of the mounting being, if desirable, the same as that shown in Figs. 1 to 8.

To remove the mounting from the nose of a wearer or to place it upon the nose, the finger pieces 8 are pressed together, thus separating the nose engaging portions in rear of the lenses, and upon the releasing of the finger pieces the nose engaging portions move together under the action of the springs. To remove a guard for the purpose of repair or to adapt the mounting to a different nose, a hook portion 17 is disengaged from its cooperating recessed portion 18, thus permitting a bearing 5 to be separated from its bearing 4 by the lateral or sidewise movement of the guard, the spring remaining on the support by reason of the connections 15, 16. If it is desired to remove a spring without removing its guard a disconnection between the interlocked parts 17 and 18 is first effected when the spring may be moved rearwardly to separate the parts 15 and 16.

Eyeglass mountings constructed in accordance with this invention are inexpensive to manufacture and simple in operation. The springs for positioning the guards are so located that they are hidden behind the support when viewed from the front and the increased length of the forwardly projecting arm 14 produces an easier action in the guard. The interlocking connection between the spring and the support and between the spring and the guard maintains these parts in proper operative relation while at the same time permitting an almost instantaneous detachment. The connections also dispenses with the use of screw fasteners or other independent fasteners which in addition to increasing the size of the mounting are liable to work loose and become lost.

I claim as my invention—

1. In an eyeglass mounting, the combination with a support for the lenses and a nose guard mounted to swing on the support, of a spring unsupported between its ends, in rear of the support and having one end detachably interlocked with the support and the other end detachably interlocked with the guard, both of said interlocking connections being held in engagement by the action of the spring.

2. In an eyeglass mounting, the combination with a support for the lenses and a spring unsupported between its ends, arranged in rear of the support, one of said

parts being provided with a recessed portion and the other having a portion fitted in the recessed portion, of a nose guard mounted to swing on the support and an interlocking connection between the guard and the spring held in engagement by the action of the spring.

3. In an eyeglass mounting, the combination with a support for the lenses and a nose guard mounted to swing thereon, of a spring carried by the support and having a portion coiled in a spiral about an upright axis to one side of the turning axis of the guard and an arm extended from the coiled portion and cooperating with the guard upon the opposite side of the turning axis of the latter.

4. In an eyeglass mounting, the combination with a support for the lenses and a nose guard mounted to swing on the upper side thereof and having a downwardly turned portion at its forward end, of a spring for the guard having a portion coiled in rear of the turning axis of the latter and extending forwardly beneath the support into detachable engagement with the downwardly turned portion of the guard.

5. In an eyeglass mounting, the combination with a support for the lenses and a nose guard mounted to swing thereon, of a spring having a portion coiled about a vertical axis in rear of the support, a portion above said coil secured to the support and an arm projecting forwardly beneath the support and cooperating with the guard in front of the turning axis of the latter.

6. In an eyeglass mounting, the combination with a support for the lenses, and a nose guard mounted to swing thereon, of a coiled spring carried by the support in a plane to one side of the plane of the lenses and having an arm proceeding therefrom and cooperating with the guard on the opposite side of the plane of the lenses.

7. In an eyeglass mounting, the combination with a support for the lenses and a swinging guard lever mounted thereon, of a coil spring for positioning the guard formed of a strip of flat material wound flatwise to form a flat spiral, one end of said spring being arranged to act against the support and the other end being provided with a hook engaging the guard formed by notching one edge of the material of the spring.

8. In an eyeglass mounting, the combination with a support for the lenses and a nose guard mounted to swing thereon, of a spring coiled in rear of the support, an arm extended forwardly from the outer convolution thereof and cooperating with the guard and a portion extending upwardly from the inner convolution and cooperating with the support.

9. In an eyeglass mounting, the combination with a support for the lenses and a nose

guard mounted to swing thereon, of a spring coiled in rear of the support, an arm at one end thereof cooperating with the guard and interlocking members detachably connecting the other end with the support comprising a box or socket on one part and a projection on the other fitting therein, the member on the support being arranged to project rearwardly therefrom.

10 10. In an eyeglass mounting, the combination with a support for the lenses and a nose guard mounted to swing thereon, of a spring coiled in rear of the support, an arm at one end thereof cooperating with the guard and interlocking members detachably connecting the other end with the support comprising a box or socket on one part and a projection on the other fitting therein, the member on the support being arranged to project rearwardly therefrom and that on the spring being positioned above the coil of the latter.

11. In an eyeglass mounting, the combination with a support and a nose guard pivoted to turn thereon, one of said parts being provided with a box or socket, of a spring for positioning the guard, embodying a coil in rear of the support, one end of the spring being held by the socket and the other end being adapted to detachably engage the other of said mentioned parts.

12. In an eyeglass mounting, the combination with a support, a nose guard pivoted to turn thereon and a box or socket carried by one of said parts and opening rearwardly of the support, of a spring for positioning the guard embodying a coil in rear of the support, one end of the spring being held by the socket to be withdrawn therefrom in

a rearward direction and the other end being detachably connected to the other of said first mentioned parts.

13. In an eyeglass mounting, the combination with a support, a nose guard pivoted to turn thereon and a box or socket carried by one of said parts in rear of the support and the turning axis of the guard, of a spring for positioning the guard having one end held by the box and the other end detachably connected to the other of said first mentioned parts.

14. In an eyeglass mounting, the combination with a support and a guard lever mounted to swing thereon, of a spring for positioning the guard having one end acting against the latter and the other against the support and provided with an intermediate loop or coil, and means for securing one such end to one of said first mentioned members comprising a box or socket on one part located to one side of the loop or coil into which socket the other part extends.

15. In an eyeglass mounting, the combination with a support for the lenses and a finger piece guard lever mounted to turn thereon, of a box or socket on the support disposed transversely of the plane of the lenses and a spring for positioning the guard comprising a coil or loop arranged to one side of the plane of the lenses and a forwardly and rearwardly disposed arm proceeding therefrom and detachably cooperating with the box or socket.

LEO F. ADT.

Witnesses:

RUSSELL B. GRIFFITH,
HAROLD H. SIMMS.