

L. F. ADT.
EYEGLASS MOUNTING.
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1,019,214.

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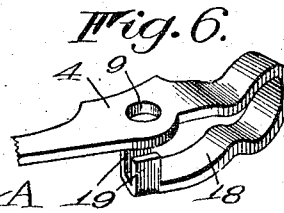
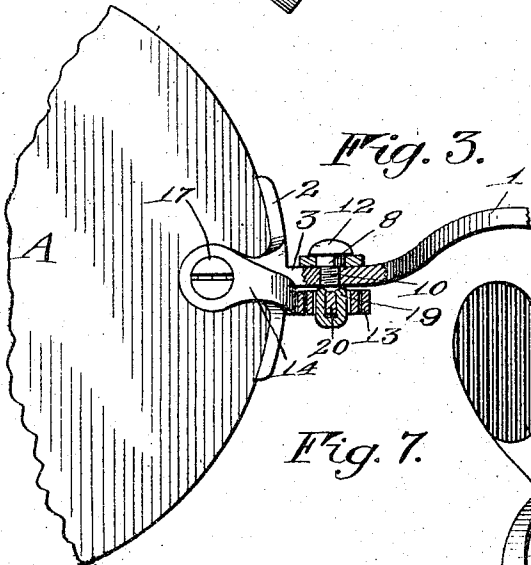
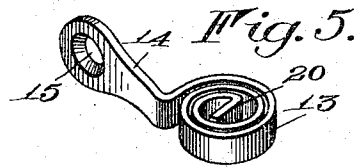
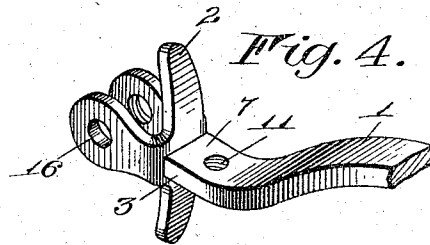
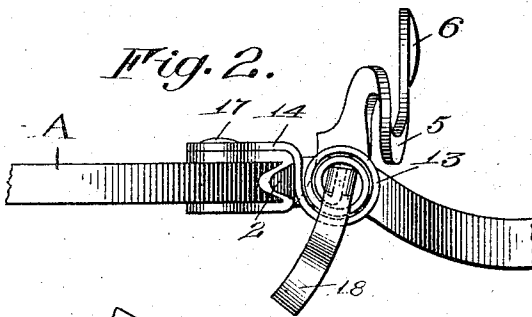
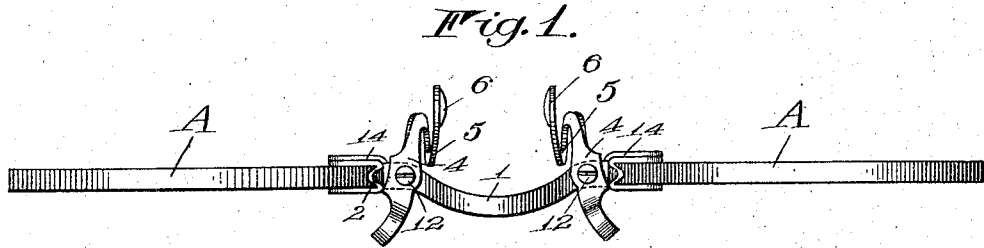
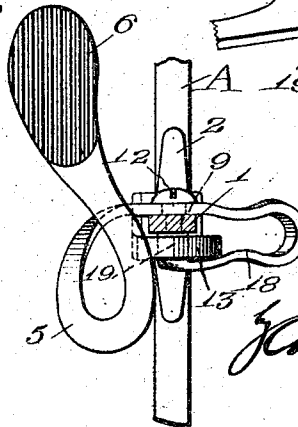


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

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EYEGLASS-MOUNTING.

1,019,214.

Specification of Letters Patent.

Patented Mar. 5, 1912.

Original application filed February 17, 1906, Serial No. 301,562. Divided and this application filed November 6, 1909. Serial No. 526,525.

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 this application is a division of an application filed by me on February 17, 1906, Serial No. 301,562.

An object of this invention is to provide a construction in which the springs for positioning finger-piece nose guards are so located as to provide an inconspicuous mounting and have sufficient strength to give the required pressure upon the nose, said springs being separate and readily detachable from the guards and from the mounting independently of the guards and held in place without the provision of separate fastening devices.

A further object of the invention is to provide a spring of such a construction and so disposed with reference to the other parts as to offer certain further conveniences in the manipulation of the parts during assembling, adjustment or repair.

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 plan view of a mounting constructed in accordance with this invention; Fig. 2 is a detail bottom view of the same mounting in proximity to one of the guards; Fig. 3 is a detail view, partly in section, illustrating the manner in which a guard is secured to its spring; Fig. 4 is a detail perspective view of the support in proximity to one of the guards; Fig. 5 is a detail perspective view of one of the springs; Fig. 6 is a perspective view of a portion of one of the guards, and Fig. 7 is a transverse sectional view of the mounting.

In the embodiment of the invention herein illustrated, the support for the lenses A comprises preferably an arched or bridging

portion 1, lens attaching devices or portions 2, and portions 3 at the ends of the bridging portion preferably connecting the latter with the lens attaching devices 2.

Each nose guard preferably comprises a lever 4 having a nose engaging member at its end consisting in this instance of a lower pad 5 and an upper pad 6 formed in one piece with the lever 4, the metal being bent downwardly from the lever and thence upwardly to provide the lower pads 5, and being extended above the lever and enlarged to provide the upper pad 6. Preferably the flat faces of the stock forming each lever 4 are horizontally arranged so that the lower face may turn in engagement with a seat 7 formed by the upper face of one of the connecting portions 3, thus giving stability to the guard. Pivotal connection between each guard and the support is preferably established by the removable fastener comprising a pivot portion 8 cooperating with the bearing 9 of the lever; screw portion 10 engaging the screw threaded walls 11 of an opening in the portion 3; and a head 12 which cooperates with the upper face of the guard lever 4 to firmly hold the same in engagement with the seat 7.

The springs for positioning the guards may each be in the form of a coil 13 preferably made from flat stock into a flat or true spiral form with all its convolutions in the same plane. Preferably each coil is mounted below the connecting portion 3 and is unsupported between its ends, so that it does not cooperate with the pivot 4 in any way to interfere with the turning action of its guard. An arm 14 may be extended outwardly from the outer end of the coil in rear of the proximate lens attaching device and may be provided with an opening 15 alining with an opening 16 in the lens attaching device so that this end of the spring may be secured or held in position to react against the supporting structure upon which the guard turns by the fastener 17 that serves to secure the lens to the lens attaching device while the other end is cooperating with the guard as hereinafter described. The inner end of each coil is preferably detachably secured to the nose guard in order that the latter and the spring may be subject to independent repair and that the guard may be detached from the mounting without removing the spring, for it will

be noted that the support and the springs are located on one side of or below the nose guards. The connection between each guard and its spring is in this instance formed by extending an arm 18 rearwardly from the forward end of the guard toward the pivot and providing the free end of the latter with portions which interlock with the free end of the spring. These portions in this instance are in the form of parallel lugs or ears 19 which form a slot shaped socket or eye and receive between them the inner end 20 of the spring, and, if desired, are pressed together so as to bear with friction against the spring end 20 to prevent accidental displacement but at the same time to permit the arm 18 to be disengaged from the spring end. By extending the arm 18 from the forward end of the guard lever there is provided a loop at the front end of the guard which serves as a finger piece for the latter and gives an efficient gripping portion.

In operation, the forward ends of the guard levers are pressed together to separate the nose engaging members at the rear ends. Of course, when the forward ends are released the nose engaging members move toward each other under the action of the springs 13. To remove the guards it is only necessary to remove the fasteners or pivots which secure them and disengage the lugs 19 from the spring ends 20, the springs remaining upon the support. Of course, the springs may be removed after the guards have been removed or may be removed with the latter.

Eye-glass mountings constructed in accordance with this invention have their guard positioning springs so arranged as to be inconspicuous. The springs may be given maximum lengths in order to obtain the desired pressure of the guards upon the nose and they are so supported that they do not interfere with the pivot bearings of the guards. The guards may be removed without removing the springs which remain on the mounting so that they are not liable to become mislaid or lost.

I claim as my invention:

1. The combination with a support for the lenses comprising a bridging portion, a lens attaching device and a portion connecting the lens attaching device and the bridging portion, of a nose guard embodying a lever having pivotal connection with the connecting portion and arranged to one side of the same, and a coil spring on the opposite side of the connecting portion with its axis vertically arranged and having one end secured to the support and its other end detachably acting against the guard.

2. The combination with a support for the lenses, of a nose guard pivoted to the support embodying a lever having an arm ex-

tended from the same on one side of and directed toward the pivot, and a coil spring arranged with its axis coincident with the pivot of the guard, secured to the support and having one end thereof detachably connected to the arm on the guard lever.

3. The combination with a support for the lenses, of a nose guard pivoted on the support embodying a lever having an arm extended from the same in front of the pivot of the guard, and a coil spring arranged with its axis coincident with the pivot of the guard, secured to the support and having one end thereof detachably connected to the arm on the guard lever.

4. The combination with a support for the lenses, of a nose guard pivoted to the support embodying a lever having an arm extended rearwardly from its forward end, and a coil spring arranged with its axis coincident with the pivot of the guard, secured to the support and having one end thereof detachably connected to the arm.

5. The combination with a support for the lenses embodying a bridging portion, a lens attaching device and a portion, connecting the lens attaching device and the bridging portion of a nose guard embodying a lever pivotally mounted on one side of the connecting portion and having an arm extending toward the pivot pin, and a coil spring secured to the support on the other side of the connecting portion, having one end detachably secured to the guard arm and arranged with its axis coincident with the turning axis of the lever.

6. The combination with a support for the lenses comprising a bridging portion, a lens attaching device, and a portion connecting the lens attaching device with the bridging portion, of a nose guard embodying a lever pivoted to swing in engagement with the upper face of the connecting portion and having an arm extended therefrom to the other side of the support toward the pivot, and a coil spring carried by the support on the side of the connecting portion opposite the lever and detachably connected to the arm.

7. In an eyeglass mounting, the combination with a support embodying lens attaching devices, a bridging portion, and portions connecting the latter to the lens attaching device having horizontal seats on the upper sides thereof, of detachable nose guards mounted to turn in engagement with the seats and coil springs mounted underneath the guards, carried by the support, and detachably connected to the guards to permit the latter to be removed without removing the springs.

8. 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 wound

in a flat spiral about the axis of the latter and having its outer end arranged to act upon one of said members and its inner end to act upon the other, said inner end and its cooperating member being fastened together by the provision of an eye on one part into which a securing element on the other projects.

9. 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 wound in a flat spiral about the axis of the latter, the outer end cooperating with one of said members and the inner end being fastened to the other by means of a connection comprising an eye on one part arranged in alinement with the axis of the guard into which a securing element on the other projects.

10. The combination with a support for the lenses and a nose guard mounted to turn thereon, the latter being provided with a socket, of a spring having an end fitted in the socket and having the other end acting on the support.

11. The combination with a support for the lenses and a nose guard mounted to turn thereon, one of said parts being provided with a pair of parallel projections forming a slot shaped eye, of a spring having an end portion fitting in said eye and its other end acting on the other part.

12. The combination with a support for the lenses and a nose guard mounted to turn thereon, one of said parts being provided with a pair of parallel projections forming a slot-shaped eye, of a spring formed of a strip of flat material with one end portion fitting in said eye and its other end acting on the other part.

13. The combination with a support for

the lenses and a nose guard mounted to turn thereon, of a flat spiral spring for positioning the guard having its inner end and one of said members connected together by means of a pair of parallel projections on one of said parts arranged within the center of the coil and forming a slot shaped eye into which a portion of the other part is fitted, the other end of the spring acting against the other member.

14. The combination with a support for the lenses and a nose guard mounted to turn thereon, of a flat spiral spring having its inner end and one of said members connected together by means of a socket on one part into which a portion of the other projects, the outer end of the spring acting against the other member.

15. In an eyeglass mounting, the combination with a support and a guard lever pivoted on one side thereof, of a flat spiral spring for positioning the guard arranged on the opposite side of the support and a member rigidly joined to the guard to extend through the horizontal plane of the support and being connected to one end of the spring within the coil of the latter.

16. In an eyeglass mounting, the combination with a support and a guard lever pivoted on one side thereof, of a flat spiral spring for positioning the guard arranged on the opposite side of the support and a member rigidly joined to the guard to extend through the horizontal plane of the support and being connected to the inner end of the spring at a point in alinement with the axis of the guard.

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Witnesses:

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