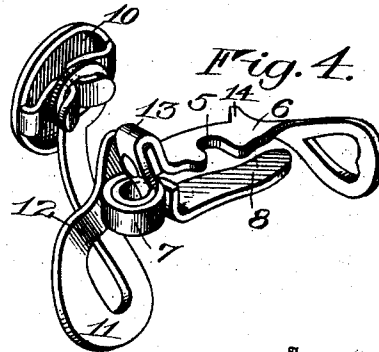
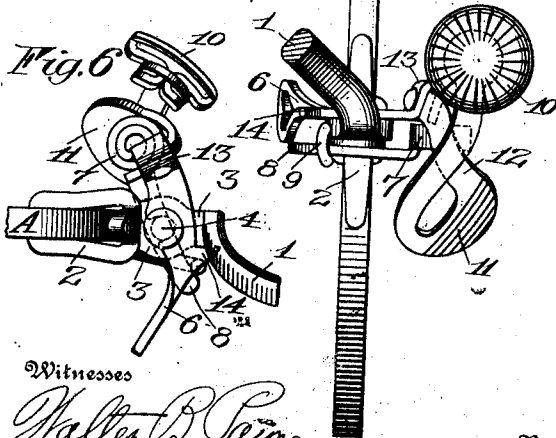
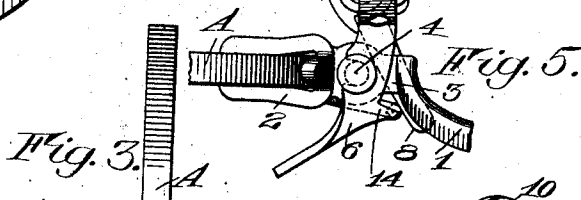
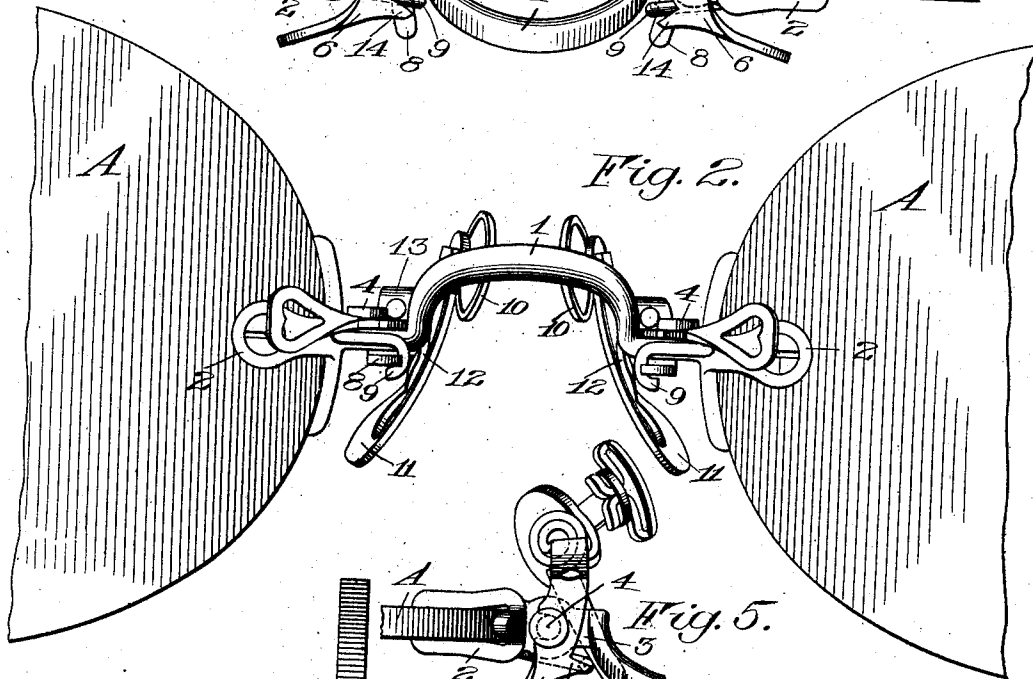
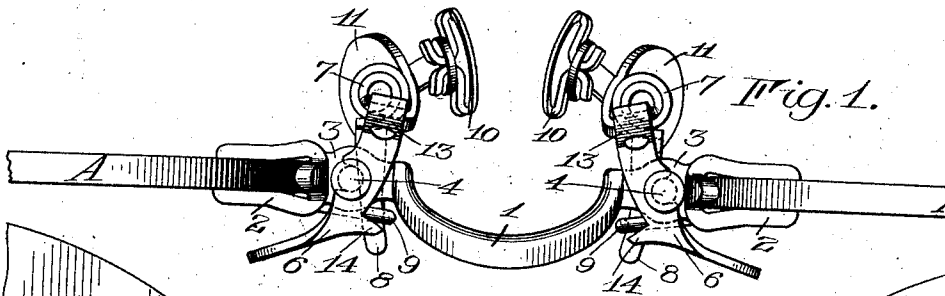


L. F. ADT.
EYEGLASSES.
APPLICATION FILED NOV. 27, 1908.

1,040,095.

Patented Oct. 1, 1912.



Witnesses

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EYEGLASSES.

1,040,095.

Specification of Letters Patent.

Patented Oct. 1, 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 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 the specification, and to the reference-numerals marked thereon.

The present invention relates to eyeglasses of the type embodying nose guards mounted to swing substantially in a horizontal plane and each having a forwardly extending operating portion and a rearwardly extending portion carrying a nose-engaging portion; and an object of the invention is to provide a construction and an arrangement of the guard positioning springs which render the latter inconspicuous and make the action of the guards easier while at the same time giving sufficient power to retain the guards with pressure against the nose of a wearer.

Another object is to provide open bearings on the guards arranged in such a manner that the latter may be removed without interference between the guard positioning springs and the support.

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 top view of the mounting and portions of the lenses. Fig. 2 is an enlarged front view. Fig. 3 is a central vertical section. Fig. 4 is a perspective view of one of the guards. Fig. 5 is a detail view to illustrate the manner of removing the spring, and Fig. 6 is a detail view to illustrate the cooperation of the projection with the support to prevent a guard riding over the bridging portion.

In the present embodiment of the invention, the lenses A are carried by a support which preferably comprises a bridging portion 1 connected to the lens attaching devices 2 by horizontal seats 3. The nose guards in this instance are mounted to swing on the seats 3 substantially in a horizontal plane and for this purpose the seats may have pivots 4 projecting upwardly therefrom to cooperate with bearings on

the guards, the upper end of the pivots being provided with heads to prevent vertical movement of the guards. The bearings 5 on the guards preferably are provided in the levers 6 and open horizontally toward the lens attaching devices so that the springs for positioning the guards may be carried by the latter and operate beneath the support without interfering with the lens-attaching devices when the guards are removed, the spring during the removal passing beneath the arched bridging portion in order to permit the guard lever 6 to be tilted.

In the present embodiment each spring is in the form of a coil 7 and an arm 8. The coil is preferably of volute form with its axis vertically arranged, and its inner end connected to the rear end of a lever 6 and its outer end connected to arm 8 that projects forwardly and cooperates with the support to slide thereon and exert a pressure on a guard in order to retain its bearing 5 in cooperative relation with a pivot 4. The point 9 on which the arm slides may be in the form of a bracket or hook depending from the support, and located between the pivots 4 and in advance of the latter. This location of the points 9 permits the arms 8 to be given maximum lengths and causes the latter to slide on the points in directions to increase their effective lengths, thus tending to ease the actions of the springs toward the last part of the opening movements of the guards and while they are under greatest tension.

The nose-engaging portions of the guards may be in the form of nose-engaging members each having an upper pad 10 and a lower pad 11 with an arm 12 branched therefrom and secured to a lever 6 which for this purpose may have a vertically offset portion 13 preferably in the form of an upwardly extending loop to one arm of which, one end of a coil 7 may be connected, the arm 12 of a nose-engaging member being secured between the arms of a loop.

The specific construction and arrangement of the upper nose bearing 10 and its support forms the subject matter of a divisional application, Serial No. 479,809, filed by me February 24, 1909.

In order to prevent the lever riding on the bridging portion each lever may be provided with a projection 14 on its side adjacent the bridging portion, and this projec-

tion will near the last part of the opening movement pass beneath and engage the under side of the upwardly curved bridge.

It is desirable for the purpose of eliminating fastening devices which would increase the size of the mounting, that the lever 6, coil 7 and arm 8 be formed from one piece of flat stock, and to this end a blank is provided and twisted near one end to form a finger piece or operating portion for the guard. In rear of the bearing recess 5 the blank is bent transversely of the flat faces to form the loop 13 one arm of which is carried downwardly and twisted at 15 and then bent transversely of the flat faces to form the horizontal volute coil, the outer end of the coil having the arm 8 proceeding from one side edge thereof and formed by a bend transverse of the flat faces of the stock.

The guards are operated by pressing the forwardly extending operating portions together, thus causing their nose-engaging portions to separate, the springs acting to move the latter together when the guards are released. To remove the guards from the mounting for the purpose of fitting the eyeglasses the arms 8 are disengaged from hooks 9 and spring beneath the bridging portion to permit the guards to be turned without interference with the support. The coils are located directly in rear of the support so that they are invisible when the mounting is viewed from the front and the spring arms bear on the support in such a manner that the action of the guards is not hard near the end of their opening movements.

I claim as my invention:

1. The combination with a support for the lenses, of a pair of nose guards mounted to swing thereon substantially in a horizontal plane and each embodying a forwardly extending operating portion, a rearwardly extending portion carrying a nose engaging portion, and a spring arm carried by the rearwardly extending portion and having sliding engagement with the support at a point between the swinging axes of the two guards and in advance of said axes.

2. The combination with a support for the lenses, of a pair of nose guards mounted to swing thereon substantially in a horizontal plane and each embodying a forwardly extending operating portion, a rearwardly extending portion carrying a nose-engaging portion, a coil connected at one end to the rearwardly extending portion, and an arm secured at one end to the coil and at its other end having sliding engagement with the support at a point between the swinging axes of the two guards and in advance of said axes.

3. The combination with a support for the lens embodying a bridging portion, lens at-

taching devices, and portions connecting the bridging portion and the lens attaching devices, of nose guards arranged above the support, cooperating and laterally separable bearings on the guards and the supports opening in a direction to permit the guards to be removed by movement toward the bridging portion, portions on the nose guards cooperating with the bridging portions to limit their opening movement, and a spring for positioning each guard removable with the latter and having a portion operating beneath the support.

4. The combination with a support for the lenses embodying a bridging portion, horizontal seats at the ends of the bridging portion, and lens attaching devices beyond the seats, of pivots projecting upwardly from the seats, nose guards each embodying a lever turning on a horizontal seat above the support and formed with a bearing opening toward a lens attaching device, portions on the guards cooperating with the bridging portion to limit their opening movement, and a spring for positioning each guard removable with the latter and having a portion operating beneath the support.

5. The combination with a support for the lenses embodying a bridging portion, horizontal seats at the ends of the bridging portion, and lens attaching devices beyond the seats, of pivots projecting upwardly from the seats, nose guards each embodying a lever turning on a horizontal seat above the support and formed with a bearing opening toward a lens-attaching device, and a portion cooperating with the bridging portion to limit its opening movement, a coil spring secured at one end to the lever, and an arm projecting from the other end of the coil and cooperating with the support below the latter.

6. The combination with a support for the lenses, of nose guards, mounted to swing substantially in a horizontal plane on the support and each embodying a lever projecting forwardly and rearwardly therefrom, a vertical offset portion on the rearwardly extending portion, a forwardly extending spring arm carried by the lever in rear of the offset portion and cooperating with the support, and a nose bearing member secured to the offset portion of the lever.

7. The combination with a support for the lenses, of nose guards mounted to swing substantially in a horizontal plane on the support and each embodying a lever projecting forwardly and rearwardly of the lenses and having an upwardly offset loop, a spring connected with one arm of the loop and cooperating with the support, and a nose bearing member having a portion secured between the arms of the loop.

8. The combination with a support for the lenses, of nose guards mounted to swing sub-

- stantially in a horizontal plane on the support and each embodying a lever projecting forwardly and rearwardly of the lenses and having an upwardly offset loop, a coil spring secured at one end to one arm of the loop, an arm projecting forwardly from the other end of the coil and cooperating with the support, and a nose bearing member having a portion secured between the arms of the loop.
9. The combination with a support for the lenses embodying a bridging portion, horizontal seats at the ends of the bridging portion, and lens attaching devices beyond the seats, of pivots projecting upwardly from the seats, nose guards each embodying a lever projecting forwardly and rearwardly from the support and provided with a horizontally opening bearing, the forwardly extending portion carrying a projection to engage the under side of the bridging portion of the support and the rearwardly extending portion carrying a portion to engage the nose of a wearer, and springs for moving the guards toward each other.
10. The combination with a support for the lenses, of nose guards mounted to swing thereon, each made from a single piece of flat stock and having a portion extending forward from its swinging axis and a portion extending rearwardly from said axis, a volute coil formed by bends transverse of the flat face of the stock having its axis vertically arranged and being carried by the rearwardly extending portion in a horizontal plane with the support, and an arm connected to the coil by a bend transverse of the flat faces of the stock and proceeding forwardly into engagement with the support.
11. A nose guard comprising a lever having a bearing intermediate of its ends and an operating portion on one side of the bearing, a spring arm carried by the lever on the opposite side of the bearing and proceeding toward the latter, a seat carried by the lever on that side of the bearing on which the spring arm is carried, and a nose bearing member secured to the seat.
12. In a nose guard, the combination of a portion formed from a single piece of flat stock and embodying a lever having an intermediate bearing, an arm proceeding toward the bearing, and a seat formed by transverse bends in the stock between the lever and the arm, with a nose bearing member secured to the seat.
13. In a nose guard, the combination of a portion made from flat stock and embodying a lever having a bearing intermediate of its ends, a seat at one end of the lever formed by bends in the stock, a coil spring formed by bends in the stock beyond the seat, and a spring arm extending toward the bearing of the lever from the coil spring, with a nose bearing member secured to the seat.
14. In an eyeglass mounting, the combination with a support, of a nose guard mounted thereon embodying a rearwardly extending arm, a nose engaging member provided with an arm and a pocket on one arm within which the other arm is held.
15. In an eyeglass mounting, the combination with a support, of a nose guard mounted thereon embodying a rearwardly extending arm having a pocket therein formed by doubling the material of the arm and a nose engaging member provided with an arm held within the pocket.
16. In an eyeglass mounting, the combination with a support, of a nose guard mounted thereon embodying a rearwardly extending arm having a substantially vertically disposed open pocket therein and a nose engaging member pivoted within the pocket to operate in a substantially vertical plane.
17. In an eyeglass mounting, the combination with a support, of a nose guard mounted thereon embodying a rearwardly extending arm having a doubled portion forming a pocket, a fastener connecting the doubled portions and a nose engaging member secured within the pocket by the fastener.
18. In an eyeglass mounting, the combination with a support, of a nose guard mounted thereon embodying a rearwardly extending arm having a pocket therein formed by doubling the arm vertically and a nose engaging member held within the pocket.
19. In an eyeglass mounting, the combination with a support, of a nose guard mounted thereon embodying a rearwardly extending arm having a pocket therein formed by doubling the arm vertically, a fastener connecting the doubled portions and a nose engaging member having a lateral arm extending within the pocket and pivoted on the fastener.
20. In an eyeglass mounting, the combination with a support, of a guard having a pivotal bearing thereon and an operating portion on one side of the bearing and a spring arm connected to the guard and having a portion proceeding from the other side of the bearing toward the bearing and engaging the support on the same side of the bearing as the operating portion is arranged.
21. In an eyeglass mounting, the combination with a support, of a guard having a pivotal bearing thereon intermediate the length of the guard and an operating portion on the front side of the bearing, and a spring arm extending rearwardly from the guard on the rear side of the bearing and thence forwardly and engaging the support at a point forwardly of the bearing.
22. In an eyeglass mounting, the combination with a support, of a finger piece guard lever mounted to turn thereon and to extend forwardly and rearwardly of the mounting, and a spring arm carried by the guard hav-

ing a portion in rear of the turning axis of the latter proceeding forwardly and slidably engaging the support at a point forwardly of the turning axis.

- 5 23. In an eyeglass mounting, the combination with a support, of a finger piece guard lever mounted to turn thereon and to extend forwardly and rearwardly of the mounting, and a spring arm carried by the guard having a portion in rear of the turning axis of the latter proceeding forwardly and engaging the support at a point forwardly of the turning axis and on the inner side thereof.

24. In an eyeglass mounting, the combination with a support, of a finger piece guard 15 lever mounted to turn thereon and to extend forwardly and rearwardly of the mounting, a coil spring carried by the guard in rear of the turning axis of the latter and an arm proceeding forwardly from the spring coil 20 and engaging the support at a point forwardly of the turning axis of the guard.

LEO F. ADT.

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