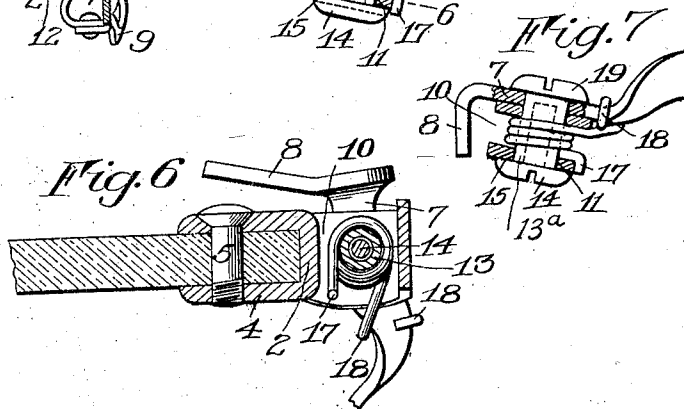
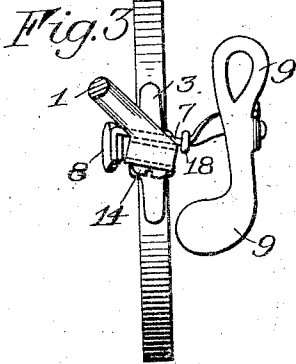
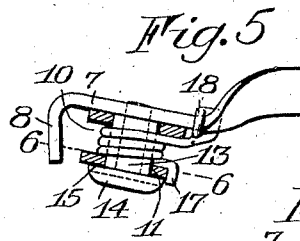
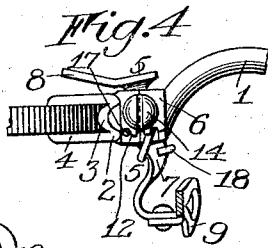
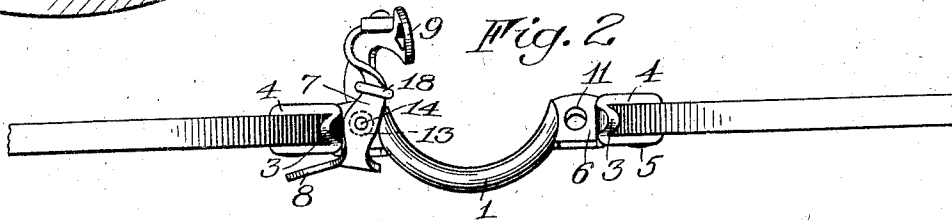
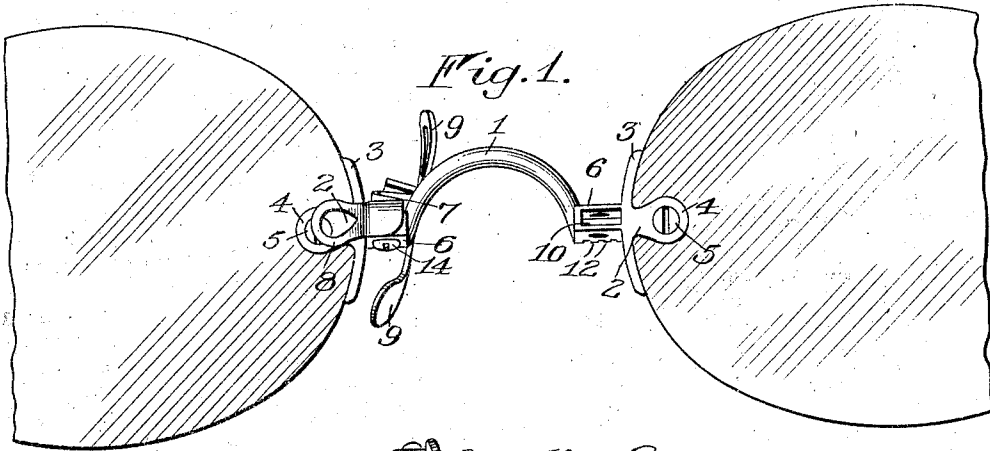


L. F. ADT.
EYEGLASSES.

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Patented Oct. 1, 1912.

1,040,104.



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EYEGLASSES.

1,040,104.

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

5 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
10 the reference-numerals marked thereon.

My present invention relates to optics and more particularly to eyeglasses and eyeglass mountings and it has for its object to provide an improved mounting of the finger
15 piece type in which a firm bearing is provided for the guard lever and all of the parts are held securely in definite positions while at the same time the parts may be readily and easily assembled and detached.

20 The improvements are further directed toward providing a simple and convenient means for varying the tension of the spring that positions the guard and to these and other ends the invention consists in certain
25 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, one of the guards being removed; Fig. 2 is a top plan view; Fig. 3 is a vertical section taken centrally through
35 the bridge; Fig. 4 is a bottom plan view of one of the guard lever mechanisms; Fig. 5 is an enlarged detail section taken substantially on the line 5—5 of Fig. 4; Fig. 6 is an enlarged detail horizontal section taken
40 substantially on the line 6—6 of Fig. 5, and Fig. 7 is a section corresponding to Fig. 5 but illustrating a slight modification of the structure.

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

As before indicated, the present mounting is of the finger piece type and comprises a preferably rigid bridging portion 1, lens attaching devices 2 each embodying the edge
50 bearing ears 3 and attaching ears 4 through which the lens screw 5 is passed, and intermediate connecting portions 6 that form the supports for the guard levers 7. These latter may be, generally speaking, of any de-

sired type, being formed in the present instance of flat stock with a depending finger portion 8 at the forward end and nose engaging portions 9 at the rear end.

The connecting portions or supports 6 are, in the present instance, provided with substantially horizontally extending pockets 10 that are preferably open at the front and rear only and that divide the support for each guard into spaced upper and lower portions forming the upper and lower walls of
65 the pocket. An aperture 11 extending vertically through the support passes through both walls of this pocket and preferably at the rear edge of one wall are provided a plurality of abutments 12 forming serrations in
70 said edge.

Each guard 7 turns, in the present instance, on the table afforded at the top side of the support 6 and is provided with a preferably integral or fixedly connected
75 pivoting member 13 that projects laterally therefrom and forms an elongated bearing member turning in the aperture 11 and, being carried by the guard lever, is removable therewith. The lower or outer end of this
80 pivoting member is engaged by a detachable fastener 14 on the opposite side of the support from the lever 7 and I prefer to make the pivoting member 13 hollow or tubular so that it is in the nature of a sleeve and to
85 provide, as the fastener 14, a screw threaded into the sleeve and having its shoulder 15 cooperating with the under face of the support and with the end face of the sleeve, both of these faces being in the same plane.
90

The spring 16 for positioning each guard, is located within the pocket 10 and is held in place by the pivoting member 13 about which it is coiled though it may be inserted and withdrawn, when the pivoting member
95 and guard are removed from one of the open sides of the pocket, preferably the rear one. The spring has an adjustable connection with one of the parts, in this instance the support, for which purpose one
100 end of the spring has a downwardly extending arm 17 that cooperates with the abutments 12, while an arm 18 at the other end is hooked over or otherwise caused to cooperate with the guard 7. The tension of the
105 spring is varied according to the particular abutment 12 with which the arm 17 is engaged, as will be understood.

The above construction and arrangement of parts simplifies the assembling and dismantling of the eyeglass. In the former case the spring 16 is first shoved into the pocket, where it will remain by virtue of its own elasticity in alinement with the aperture 11 and with its arm 17 in engagement with one or another of the abutments 12. The guard is next applied, its pivoting member 13 being readily thrust through the aperture 11 and through the spring because of the facility afforded its manipulation of the pivot due to the attachment to the guard. When the other arm 18 of the spring is next hooked over the guard lever 7, the latter is placed under tension and it remains only to apply the fastener 14 from the bottom.

It will be further observed that a long bearing is provided for the guard, the whole length of the member 13 being utilized to prevent the guard from tilting, while the support is gripped between the guard and the head of the fastener 14 with such delicacy that no lost motion is permitted in the direction of the axis, and yet there is no opportunity for the guard to bind in its movements. Further, the threaded engagement of the fastener with the pivoting member is so distributed because of the length of the latter that there is no danger of stripping the threads and, in fact, this threaded portion of the fastener may be run entirely through the guard as well as through the sleeve, as shown.

In Fig. 7 I show that the tubular pivoting member 13^a may be formed separate from the guard and detachable from both it and the support, in which case it is provided with a head 19 that bears on the top side of the guard so that the guard may turn relatively to it or it may turn in the support with the guard.

I claim as my invention:

1. In an eyeglass mounting, the combination with a support and a finger piece guard lever mounted to turn on one side thereof, of a laterally projecting tubular bearing member fixed to the guard lever, and a detachable securing device cooperating with the support and embodying a shoulder cooperating with the end of the bearing member for holding the guard lever on the support, said securing device being engaged within the tubular body of the bearing member.

2. In eyeglasses, the combination with a support, of a guard lever turning on one side of the support, a pivoting member for the guard extending through the support and detachable from the latter, a detachable fastener cooperating with the pivoting member on the opposite side of the support and a spring for positioning the guard coiled

about the pivoting member between the fastener and guard.

3. In eyeglasses, the combination with a support having a pocket therein, of a guard lever turning on one side of the support, a pivoting member for the guard extending through the support and detachable from the latter, a detachable fastener cooperating with the pivoting member on the opposite side of the support and a spring for positioning the guard arranged in the pocket in the support and coiled about the pivoting member.

4. In eyeglasses, the combination with a support and a guard arranged to turn on one side thereof, of a pivoting member for the guard comprising a sleeve extending through the support and cooperating with the guard at one end and a headed fastener extending axially within the sleeve and having its headed portion bearing against the support on the opposite side from the guard.

5. In eyeglasses, the combination with a support embodying two members arranged in spaced relation to form the opposite walls of a pocket, of a nose guard arranged to swing on the exterior of the pocket, a pivoting member for the guard extending through the pocket transversely of the said walls, and readily detachable therefrom, a positioning spring for the guard housed within the pocket and a removable fastener extending axially into the pivoting member and having a headed portion bearing on one side of the pocket to normally prevent withdrawal of the pivoting member from the opposite side.

6. In eyeglasses, the combination with a support embodying two members arranged in spaced relation to form the opposite walls of a pocket, of a nose guard arranged to swing on the exterior of the pocket, a pivoting member therefor carried thereby and embodying a rigidly connected sleeve extending through the pocket transversely of the said walls and removable with the guard, a positioning spring for the guard within the pocket coiled about the sleeve, and a removable fastener extending axially into the pivoting member and having a headed portion engaging the end of the sleeve and bearing on one side of the pocket to normally prevent withdrawal of the pivoting member from the opposite side.

7. In eyeglasses, the combination with a support embodying two members arranged in spaced relation, of a nose guard arranged to swing on the outer side of one of them, a pivoting member spanning the space between them and supported by them, a spring coiled about the pivoting member between the supporting members, one end thereof being connected to act upon the guard and position the same and a plurality of abut-

ments with which the other end of the spring may be selectively engaged to alter the tension formed by indentations at the edge of one of the supporting members.

5 8. In an eyeglass mounting, the combination with a support and a finger piece guard lever mounted to turn thereon, one of said parts being provided with a plurality of openings forming spaced abutments, of a
10 coil spring for positioning the guard having its ends connected to the latter and the support respectively, one such end being provided with an engaging portion extending longitudinally of the axis of the coil and
15 adapted to be engaged selectively with the several openings to vary the tension of the spring.

9. In an eyeglass mounting, the combination with a support and a guard lever
20 mounted to turn on one side thereof, of a laterally projecting elongated bearing member on the guard lever, a coil spring for positioning the latter mounted upon and surrounding the bearing member and a bearing
25 on the support cooperating with that on the lever at both ends of the spring coil.

30 10. In an eyeglass mounting, the combination with a support and a guard lever mounted to turn on one side thereof, of a laterally projecting elongated bearing member fixed to the guard lever, a coil spring for positioning the guard surrounding the

bearing member and a detachable securing device cooperating with the free end of the latter and with the support for holding the
35 guard lever on the support.

11. In an eyeglass mounting, the combination with a support and a guard lever mounted to turn on one side thereof, of a
40 laterally projecting elongated bearing member fixed to the guard lever, a coil spring for positioning the guard surrounding the bearing member and a detachable securing device cooperating with the support and
45 embodying a shoulder cooperating with the end of the bearing member for holding the guard lever on the support.

12. In an eyeglass mounting, the combination with a support and a guard lever mounted to turn on one side thereof, of a
50 laterally projecting, elongated tubular bearing member fixed to the guard lever, a coil spring for positioning the guard surrounding the bearing member and a detachable
55 securing device cooperating with the support and embodying a shoulder cooperating with the end of the bearing member for holding the guard lever on the support, said
60 securing device being engaged within the tubular body of the bearing member.

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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."