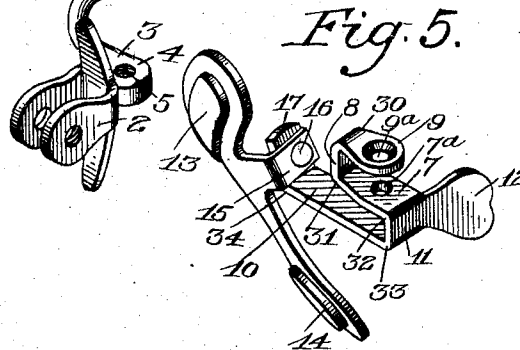
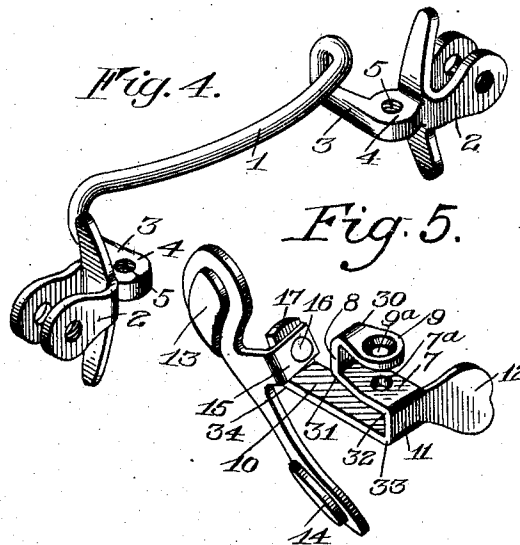
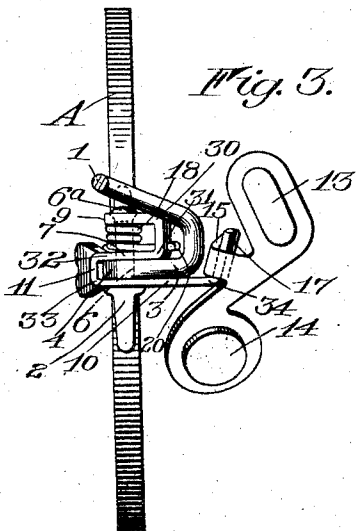
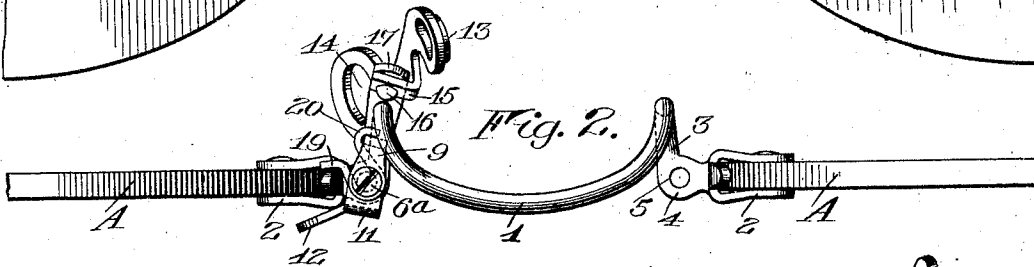
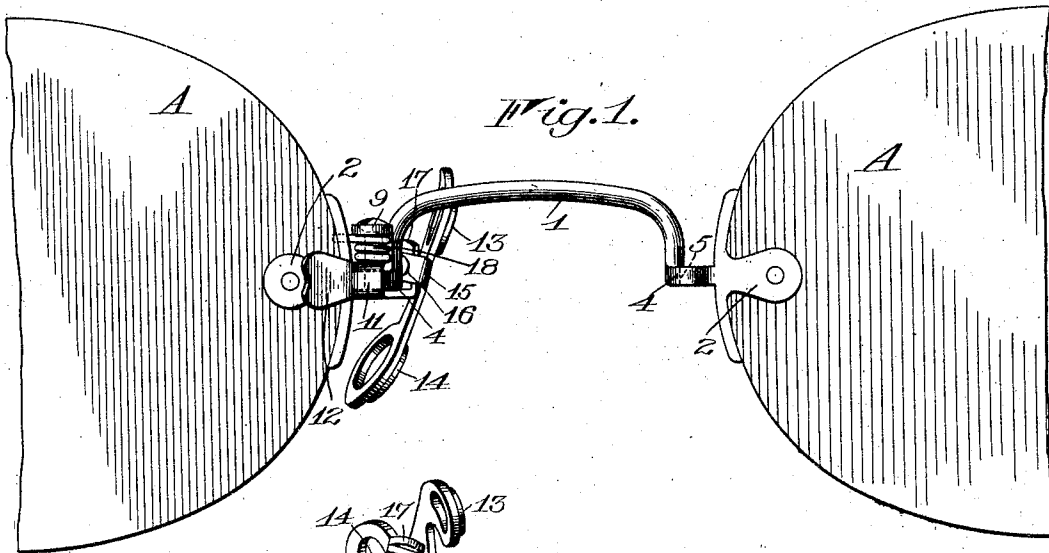


L. F. ADT.
EYEGGLASS MOUNTING.
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Patented Oct. 1, 1912.



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EYEGLOSS-MOUNTING.

1,040,099.

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 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 it has for an object to provide a construction in which the pupillary distance in a mounting having pivoted guards may be reduced to a minimum.

Another object is, without rendering the mounting conspicuous, to provide for increasing the length of the bearings for the pivoted guards in order to prevent the latter wobbling on the mounting.

A further object is to make provision whereby the supporting arm of a pivoted nose guard may be increased in length for the purpose of facilitating the adjustment of the guard.

To these and other ends the invention consists in certain improvements 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 a mounting in which one of the guards has been removed. Fig. 2 is a top view under the same conditions. Fig. 3 is a central transverse sectional view. Fig. 4 is a perspective view of the support, and Fig. 5 is a perspective view of one of the guards.

In the present embodiment the lenses A are connected by a support comprising preferably a bridging portion 1 having its ends arranged in rear of the plane of the lenses and connected to the lens attaching devices 2 by forwardly extending arms 3, each in this instance arranged in a vertical plane with an end of the bridging portion transverse of the plane of the lenses and connected to the latter by a downward and forward bend.

The form of the support herein shown permits the guards to be pivotally mounted in front of the bridging portion so that the distance between the centers of the lenses may be decreased. To this end the forward ends of the arms 3 may be enlarged in order to provide horizontal seats 4 which may

be perforated at 5 and have the walls of the perforations screw threaded to receive the screw threaded ends of pivot pins 6 projecting vertically and upwardly from the support and provided with heads 6^a at their free ends. It will thus be seen that the pivot pins lie outwardly beyond the inner faces of the arms and almost directly in front of the ends of the bridging portion so that the distance between the ends of the bridging portion and the edges of the lenses may be reduced.

The nose guards which have particular advantages with a support of the type described and have features also adapted for use on other types of supports, may each embody a nose engaging member with upper and lower pads or nose engaging surfaces 13 and 14 pivoted or otherwise secured at 16 by an outwardly offset arm 15 to a vertically offset seat 17 on a guard lever. The latter preferably embodies a supporting arm 10 operating beneath the support so as not to interfere with the end of the bridging portion and having the seat 17 at its rear end. The forward end of the supporting arm is connected to a bearing member 7 that turns in engagement with a seat 4 and also on a pivot 6 on the opposite or upper side of the support, this connection being established by a portion 11 which lies in front of the support and is provided with an outwardly extending operating portion or finger piece 12. The portion 11 with the supporting arm 10 and bearing member 7 forms a rearwardly opening loop which may be bent to permit the nose engaging member to be raised and lowered or otherwise adjusted relatively to the bearing 7^a of the guard from a point in advance of the plane of the lenses and of the turning axis of the guard. To prevent wobbling of the guard carrier an auxiliary bearing member 9 is provided which lies parallel with the member 7 to turn against the head 6^a of the pivot pin and is held in spaced and parallel relation thereto by a spacing member 8 preferably arranged in rear of the pivot 6 to be hidden thereby, the bearing 9^a of the member 9 aligning with the bearing 7^a of the member 7 so that both may cooperate with a pivot 6.

The guard lever comprising bearing members 7 and 9 with the supporting arm 10 is preferably formed from one piece of flat stock having a lateral extension between its ends. Starting from one end of the stock

the latter is bent at 30 transversely to provide bearing 9, thence transversely at 31 to provide the upright or spacing portion 8 at right angles to the bearing 9, again transversely at 32 on one side of the lateral extension to provide the bearing portion 7 lying substantially parallel with the bearing portion, again transversely at 33 on the opposite side of the lateral extension to provide the portion 11 with the finger piece 12, and finally transversely at 34 to provide the supporting arm 10 and seat 17. With this arrangement the bearings 7^a and 9^a lie perpendicularly to the flat face of the supporting arm 10 and the latter while having a great deal of strength does not occupy much space on the mounting.

The springs 18 for positioning the guards may be of any form. In this instance each is of helical formation and surrounds a pin 6 between the bearings 7 and 9 with one end 19 bearing against the support and the other end 20 formed into a hook engaging the guard.

To remove the mounting from the nose of a wearer or to place it in position thereon, the finger pieces 12 are pressed together thus separating the nose engaging members which, when the finger pieces are released, move toward each other under the action of springs 18.

With eyeglasses constructed in accordance with this invention the pivots of the guards may be located directly in front of the ends of the bridging portion of the support so that the length of the support may be reduced to a minimum for a person having a short pupillary distance. The bearings for the guards are increased so that lost motion is prevented, while the size of the mounting is not enlarged to such an extent that it is rendered conspicuous and the length of the guard supporting arms is also increased to give better adjustment without adding materially to the size of the mounting.

By arranging the portion 8 that connects the bearing portions 7 and 9 to one side of the plane of the lenses, or rather, spacing it from the pivot in the direction of the length of the guard lever, as a whole, instead of laterally thereof, it is not only rendered inconspicuous but tends to reduce pupillary distance and hence this style of bearing support can be used on any mounting without widening the space or table between the arch of the bridge and the lens attaching portion beyond what is required to accommodate the width of the guard lever itself.

I claim as my invention:

1. The combination with a support for lenses having a seat thereon, and a pivot pin rigidly secured to said support and projecting from the seat, of a nose guard turning on the pivot pin in engagement with the seat and having a spacing portion arranged to

one side of the plane of the lenses and laterally of the pin and an auxiliary bearing portion carried by the spacing portion and turning on the pin, the auxiliary bearing portion being on the same side of the seat as the guard.

2. The combination with a support for lenses having a seat thereon and a pivot pin rigid with the support projecting from the seat, of a nose guard having a portion turning in engagement with the seat and on said pivot pin and a portion carried by and arranged in spaced relation to the first named portion and turning on the pivot pin on the same side of the seat, a coil spring surrounding the pivot pin between said pin engaging portions and engaging the guard and the support and an arm on the guard arranged on the opposite side of the seat and carrying nose engaging portions.

3. The combination with a support and a pivot pin projecting vertically from the support, of a nose guard having a portion turning on the pivot pin, a bearing portion arranged in spaced relation to the first named portion and turning on the pivot pin, and a portion disposed entirely in rear of the pivot pin connecting the second mentioned portion with the first mentioned portion of the guard.

4. A finger piece guard lever comprising a bearing member having a bearing or recess therein and a supporting arm secured at one end to the bearing member on one side of the bearing or recess and extending in spaced relation to said member to the opposite side of the bearing or recess, of a nose engaging member supported by the free end of the supporting arm and an auxiliary bearing member proceeding from and having a portion arranged parallel with the first mentioned bearing member and provided with a bearing or recess in alinement with that in the latter.

5. The combination with a support for the lenses, of a nose guard mounted to swing on the support and comprising a bearing member on one side of the latter, a supporting arm on the opposite side of the support having one end connected to the bearing member in advance of the turning axis, and extending rearwardly free of said bearing member, a nose engaging member secured to said arm in the rear of the turning axis, an auxiliary bearing member proceeding from and lying substantially parallel with the first on the same side of the support, a fixed pivot pin on the latter extending through both bearing members and a positioning spring for the guard coiled about the pivot between the bearing members.

6. The combination with a support for the lenses, of a nose guard having a bearing portion on one side of the support, said guard extending in front of the latter, thence

rearwardly on the opposite side of the support free of the latter, and provided with a nose engaging member on the rearwardly extending portion, a loop formed at the rear of and proceeding forwardly from the bearing portion and a pivot pin extending through the latter and the loop.

7. The combination with a support for the lenses, of a pivot pin projecting upwardly from the support, a nose guard mounted to swing on the pivot pin and embodying parallel, spaced and rigidly connected bearing members having aligned apertures to receive the pivot pin, both members being on one side of the support, and a supporting arm for a nose engaging member connected to one of the members and lying on the opposite side of the support.

8. The combination with a support and a nose engaging member, of a finger piece guard lever for the latter provided with a bearing portion having an aperture therein, a pivot pin on the support extending through the aperture, a rearwardly opening and adjustable imperforate loop in the material between the bearing and the nose-engaging member, arranged to straddle the support, and a spring for positioning the guard lever arranged exteriorly of the loop.

9. In an eyeglass mounting, the combination with a support embodying a lens attaching portion and a bridging portion, of a substantially vertically disposed pivot arranged between the lens attaching portion and the arch of the bridge and having a head at its free end, a horizontally arranged guard lever provided with upper and lower nose engaging pads at the rear and a finger piece at the front arranged to turn on the pivot and embodying a main bearing portion in the body of the lever through which the pivot extends and an auxiliary bearing portion rigidly connected thereto in spaced relationship, one of which bearing portions turns in engagement with the head of the pivot, and a spring coiled about the pivot between the bearing portions.

10. In an eyeglass mounting, the combination with a support embodying a lens at-

taching portion, a bridge, and an intermediately disposed portion constituting a horizontally arranged seat between the arch of the latter and the lens attaching portion, of a finger piece guard lever arranged to turn with one side against the said seat, a member proceeding away from the other side of the lever and thence longitudinally thereof to constitute a loop disposed in substantially the same vertical plane with the lever, the longitudinally extending portion providing an auxiliary bearing plate spaced from the lever and rigidly connected thereto, a pivot mounted vertically on the support to extend through the lever and auxiliary bearing plate and having a shoulder for retaining the lever against the seat adapted to bear against one of said parts, and a spring for positioning the lever arranged within the loop between the auxiliary bearing plate and lever.

11. In an eyeglass mounting, the combination with a support embodying a bridge and an intermediately disposed portion constituting a horizontally arranged seat between the arch of the latter and the lens attaching portion, of a finger piece guard lever formed of a piece of flat stock proceeding rearwardly from the finger piece to provide a horizontally disposed bearing portion having its lower flat face arranged to turn against the seat on the support, thence proceeding upwardly and forwardly to form a vertically disposed forwardly opening loop and terminating in an auxiliary bearing plate spaced from the upper face of the first mentioned bearing portion, a pivot mounted on the support to extend through the lever and auxiliary bearing plate and having a shoulder for retaining the lever against the seat on the support bearing against one of said parts, and a spring for positioning the lever coiled about the pivot within the loop between the auxiliary bearing plate and lever.

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Witnesses:

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