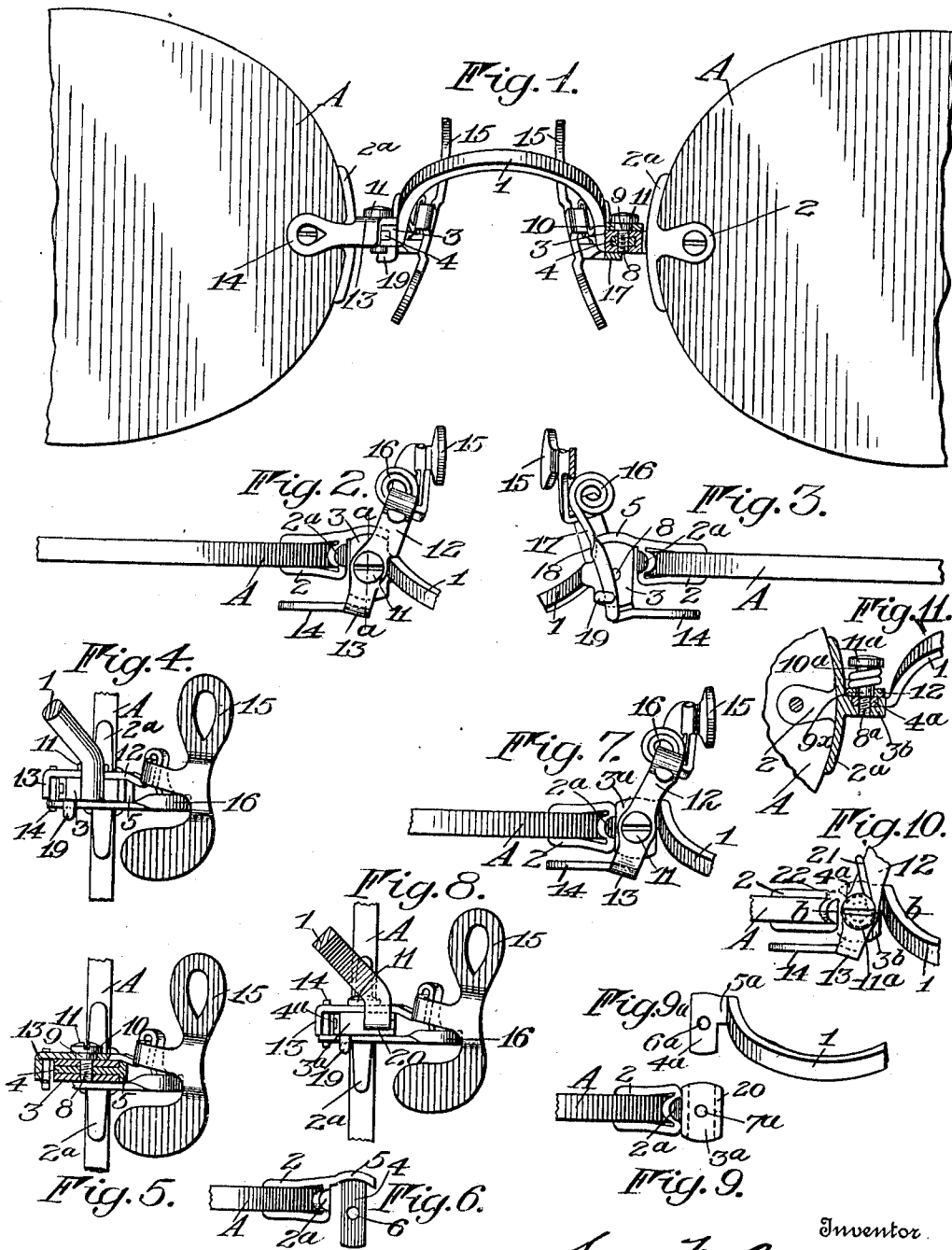


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EYEGLASS MOUNTING.
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EYEGGLASS-MOUNTING.

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To all whom it may concern:

Be it known that I, LEO F. ADT, of the city 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 the specification, and to the reference-numerals marked thereon.

The present invention relates to eyeglass mountings of the type in which the guards are moved toward the nose by springs or other resilient means and are separated by manually operable portions, such for instance as finger pieces arranged at the front of the mounting; and an object of the invention is to provide a construction in which the lens attaching devices are separate from the bridging portion, the parts being so constructed and arranged that a very small pupillary distance may be obtained.

Another object of the invention is to provide a mounting of the above type which will permit the inset and the outset of the lenses.

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 a mounting constructed in accordance with the present improvements, a portion thereof being shown in vertical section; Fig. 2 is a detail view showing the top of the same mounting in proximity to one of the guards; Fig. 3 is a detail view showing the bottom of the same mounting in proximity to one of the guards, the nose bearing member of the guard being shown in section; Fig. 4 is a central transverse sectional view of the mounting; Fig. 5 is a section on the line *a—a* of Fig. 2; Figs. 6 and 6^a are respectively detail views of a lens attaching device and an end of the bridging portion; Fig. 7 is a detail view showing the top of another mounting constructed in accordance with this invention in proximity to one of the guards; Fig. 8 is a central vertical section of this latter embodiment; Figs. 9 and 9^a are respectively a detail view of one of the lens attaching devices, shown in Figs. 7 and 8, and a detail view of one end

of the bridging portion of the same figures; Fig. 10 is a detail view of still another embodiment of the invention, and Fig. 11 is a section on the line *b—b* of Fig. 10.

In the embodiment of the invention shown in Figs. 1 to 6 the lenses *A* are connected by a support comprising a bridging portion 1 and lens attaching devices or mounts 2 connected to the bridging portion. This connection, in this instance, embodies a seat 3 in the form of a box entirely closed except on its ends. The box preferably has its greatest dimension transverse to the length of the mounting and is adapted to receive through either end thereof an attaching arm 4 carried by the lens attaching devices 2. The arm preferably lies with its greatest dimension transverse to the length of the mounting and has its inner end in spaced relation to the edge bearing portion 2^a of the lens attaching device, being supported from the latter at one end by a supporting member 5 which preferably is of greater thickness than the arm. Owing to the greater thickness of the support the entire end of the box is closed and the connection of the arm with the box 3 will not be apparent, except by close inspection. The member 5 also lies above and below and on opposite vertical sides of the arm to form stops to limit the movement of the arm into the box. To the end of securing the arm 4 within the box 3, the arm 4 may be provided with an opening 6 and the box has its opposite horizontal walls provided with openings 7. These openings receive a fastener 8 which has a screw threaded engagement with the lower opening 7 and the opening 6 and is provided with a shoulder 9 which coöperates with the upper wall of the box 3 and presses the latter against the arm 6. The openings 6 and 7 are preferably located midway between the ends of the arm and ends of the box so that it is immaterial into which end of the box the arm is introduced, but it is preferred to locate the opening 6 in the arm to one side of the median plane of the lenses carried by the lens attaching devices. With this arrangement when the arm is introduced into one end of the box the lens will be offset to the rear of the end of the bridging portion, whereas when the arm is introduced into the other end of the box the lens will be set forwardly of the end of the bridging portion. The supporting portion 5 connecting the arm 4 with the attaching

devices 2 may be made of pliable material and permit a slight adjustment of the arm 4 transversely of the lenses so that the inset and the outset of the lenses may be varied.

5 The nose guards preferably turn about axes coincident with the longitudinal axes of the fasteners 8 and to this end the fasteners are provided with bearing portions 10 on which the guards turn, the bearing portions in this
10 instance projecting from the boxes above the support and having heads 11 at their upper ends to cooperate with the upper surfaces of the guards and hold the latter in firm engagement with the upper surfaces
15 of the boxes 3. Each nose guard preferably comprises a lever 12 having the bearing portion thereof between its ends, the forward end bent vertically or downwardly at 13 and extended outwardly at 14 to provide a finger
20 piece, and its rearward end carrying the nose bearing member 15 embodying upper and lower nose engaging pads. The guards are positioned by any suitable springs, but in the present instance a volute coil 16 is ar-
25 ranged in rear of the support and is formed integrally with the rear end of a guard, an arm 17 being extended forwardly from the outer end of the coil twisted at 18 to present
30 where it has sliding engagement with the hook or projection 19 depending from the under side of the box 3.

In another embodiment of the invention, illustrated in Figs. 7 to 9, inclusive, the
35 boxes 3^a are carried by and on the inner side of the lens attaching devices 2, while the arms 4^a are carried by the bridging portion 1, the arms being supported from their inner sides by connecting portions 5^a in-
40 stead of at their ends. It is desirable to cut away a portion of the inner wall of each box at 20 so that the opening 6^a of the arm may be made to aline with the openings 7^a of the box for otherwise the ends of the bridging
45 portion would be thrown too far in the rear of the lenses. In this instance the part of the connecting means on the lens attaching devices has its opening in the median plane of the lenses and it is therefore impossible
50 to inset or outset the lenses. The connecting portion 5^a also interferes with this action, and when this type of connection is combined with a guard spring operating on the principle described in Figs. 1 to 6, the
55 projection 19, if the box 3^a were turned to inset or outset the lenses, would be thrown above the support, and this also is a reason for not providing for shifting the lenses in this embodiment.

60 Instead of providing a seat in the form of the closed box, I may construct the same as shown in Figs. 10 and 11, in which the seat 3^b is horizontally arranged with its greatest dimension transverse of the length of the
65 mounting and on the lens attaching device

2; and the arm 4^a is constructed if desirable, in the manner shown in Fig. 9^a, and is engaged directly by a shoulder 9^a on the fastener 8^a. The fastener may be extended above the shoulder to provide a bearing 10^a and also act as a support for a coil spring which lies between a head 11^a on the fastener and the upper surface of the guard lever 12 that turns on the bearing 10^a, one end of the spring engaging the lever at 21 and the other end cooperating with the lens attaching device at 22.

If it is desired to remove the mounting from the nose or place it upon the same, it is only necessary to press the operating portions or finger pieces 14 toward each other when the nose engaging portions 15 will be separated. After the desired position of the mounting has been reached the finger pieces 14 are released permitting the nose engaging members to move toward each other under the action of the springs. To remove the guards and the springs it is merely necessary to unscrew the fasteners and this action also permits the lens attaching devices to be separated from the bridging portion.

An eyeglass mounting constructed in accordance with this invention may be constructed with a very short pupillary distance as the greatest dimensions of the seats and the attaching arms between the lens attaching devices and the bridging portion lie transverse of the length of the mounting. A single screw serves as a pivot pin and as a fastener for connecting the bridging portion to a lens attaching device, and the lenses may be set inwardly or outwardly to correspond to the condition of the eyes of the wearer. This construction enables the optician to carry a fewer number of eyeglasses in stock as one mounting may be changed to agree with the facial characteristics of a great number of persons. When a lens attaching device breaks it is not necessary to send the whole mounting to the factory for repair as the optician may replace the same by another. The connections between the bridging portion and the lens attaching devices are strong and at the same time they do not render the mounting conspicuous by increasing the size of the same to any material degree.

I claim as my invention:

1. In an eyeglass mounting, the combination with a lens attaching device and a bridging portion; of means for connecting them comprising a seat on one of said parts having its greatest dimension extending in a direction transverse to the length of the mounting, an attaching portion on the other part fitting said seat and a fastener for securing together the seat and the attaching portion having its longitudinal axis transverse to the length of the mounting; and

a nose guard mounted to turn about an axis coincident with the longitudinal axis of the fastener.

2. In an eyeglass mounting, the combination with a lens attaching device and a bridging portion; of means connecting them comprising a horizontally arranged seat on one of said parts having its greatest dimension transverse to the plane of the lenses, an attaching portion on the other part cooperating with the seat and a fastener for securing together the seat and the attaching portion having its longitudinal axis transverse to the length of the mounting; and a nose guard mounted to turn about an axis coincident with the longitudinal axis of the fastener.

3. In an eyeglass mounting, the combination with a lens attaching device and a bridging portion; of means connecting them comprising a seat on one of said parts having its greatest dimension extending in a direction transverse to the length of the mounting, an attaching portion on the other part fitting said seat and a screw fastener extending transverse to the length of the mounting and having a shoulder for drawing said seat and attaching portion together and a bearing formed thereon; and a guard mounted to turn on said bearing.

4. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device; of means connecting them comprising a horizontal seat on one of said parts having its greatest dimension extending transverse to the plane of the lens held by the attaching device, a horizontal attaching arm on the other part cooperating with the seat, a screw fastener having a shoulder for drawing said arm and seat together and provided with a projecting bearing; and a nose guard mounted to swing on the bearing and to one side of the support.

5. In an eyeglass mounting, the combination with a lens attaching device and a bridging portion; of means connecting them comprising a horizontally arranged box on one of said parts having its greatest dimension transverse to the length of the mounting, an attaching portion on the other fitting in the box and a screw fastener extending transversely to the length of the mounting, and having a shoulder for pressing said box and attaching portions together and also having a bearing projecting from one side of the box; and a nose guard mounted to turn on said bearing.

6. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device; of means connecting them comprising an arm on one of said parts, a horizontally arranged box on the other of said parts and a screw fastener having a shoulder engaging an outer wall of the box to force opposite walls of said box into en-

gagement with opposite sides of the arm, and also having a bearing portion projecting from one side of the box and a head; and a guard mounted to turn on the bearing portion in engagement with the box and the head.

7. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device; of means for connecting them comprising a box carried by the bridging portion, an attaching arm carried by the other part and a fastener for securing the arm in the box; and a nose guard mounted to turn about an axis coincident with the longitudinal axis of the fastener.

8. In an eyeglass mounting, the combination with a bridging portion, and a lens attaching device; of means connecting them comprising a substantially horizontal seat on one of said parts, an attaching end on the other of said parts and a fastener for securing said parts together, openings being provided on both parts to receive the fastener and the part carried by the lens attaching device having its opening to one side of the median plane of the lenses; and a nose guard mounted to turn about an axis coincident with the axis of the fastener.

9. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device, of means connecting them comprising a substantially horizontal arm on the lens attaching device having a vertical opening to one side of the median plane of the lenses held by the attaching device, a horizontal seat on the bridging portion having an opening and a fastener fitted in the opening in the seat and the arm; and a nose guard mounted to turn about an axis coincident with the longitudinal axis of the fastener.

10. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device; of means connecting them comprising a box carried by one of said parts and arranged horizontally with its greatest dimension transverse to the length of the mounting, a horizontally arranged attaching arm carried by the other part for fitting in the box and a screw fastener having a shoulder engaging the box to draw the box and the arm together and having a bearing portion projecting from one side of the box; and a nose guard mounted to turn on said bearing.

11. In an eyeglass mounting, the combination with a lens attaching device and a bridging portion; of means connecting them comprising a box on one of said parts open at both ends and arranged with its greatest dimension transverse to the length of the mounting, a horizontally arranged arm secured at one end to the other part and fitting in the box and an upright fastener securing the arm and the box together; and a nose

guard turning about an axis coincident with the axis of the fastener.

12. In an eyeglass mounting, the combination with a lens attaching device and a bridging portion, of a member extended inwardly from the lens attaching device in a plane to one side of the median plane of the lens held by said device, a horizontally arranged attaching arm projecting laterally from said member, and a bridging portion carrying a seat to receive said arm.

13. In an eyeglass mounting, the combination with a lens attaching device, of an arm carried thereby and extending transverse to the length of the mounting, stops on opposite sides of the arm at its attached end, a bridging portion, and a box carried by the latter receiving the arm and cooperating with the stops.

14. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device, of means connecting them comprising a horizontal box on the brid-

ing portion and an arm on the lens attaching device fitted in the box, a swingingly mounted nose guard, and a spring for the guard having one end connected to the latter and the other end connected to the box.

15. In an eyeglass mounting, the combination with a bridging portion and a lens attaching device, of means connecting them comprising a horizontal arm on the lens attaching device, a horizontal box on the bridging portion receiving the arm on the lens attaching device, a screw fastener for drawing the arm and the box together having a bearing portion projecting to one side of the box, a nose guard turning on said bearing portion, and a spring for the guard connected at one end to the guard and at the other end to the box.

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