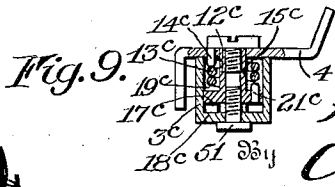
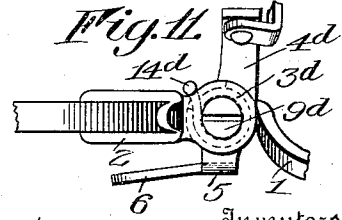
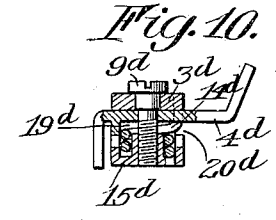
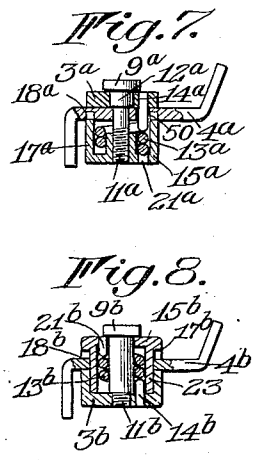
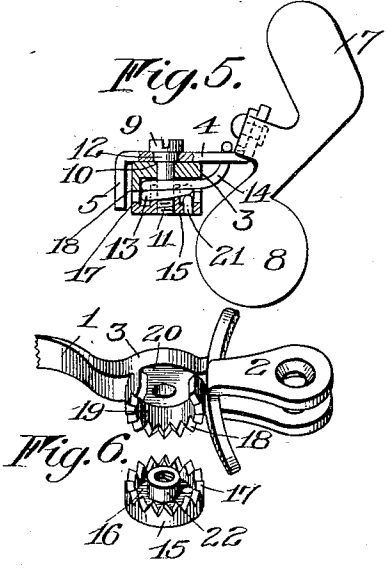
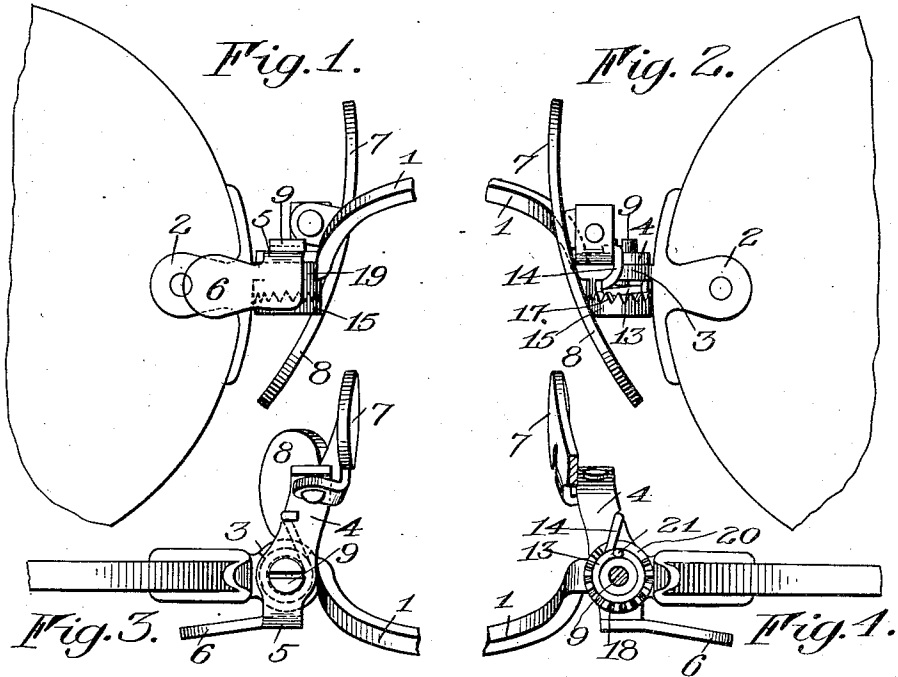


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 EYEGLASS MOUNTING.  
 APPLICATION FILED MAY 3, 1910.

1,069,284.

Patented Aug. 5, 1913.



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# UNITED STATES PATENT OFFICE.

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## EYEGLASS-MOUNTING.

1,069,284.

Specification of Letters Patent.

Patented Aug. 5, 1913.

Application filed May 3, 1910. Serial No. 559,150.

*To all whom it may concern:*

Be it known that we, WALTER B. PAYNE and HAROLD H. SIMMS, both of the city of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Eyeglass-Mountings; and we 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 of the type in which the nose bearing portions of the guard are moved toward each other under the action of springs and away from each other by finger pieces or operating portions, and an object of the invention is to provide novel means for inclosing the springs which position the guards.

Another object of this invention is to provide a construction in which the springs are adapted to have the tension thereof changed to obtain the desired pressure of the guards upon the nose of a wearer.

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 a front view of a portion of a mounting in proximity to one of the guards with the present improvements applied thereto; Fig. 2 is a rear view of the same part; Fig. 3 is a plan view; Fig. 4 is a bottom view with the spring adjusting device removed; Fig. 5 is a transverse vertical section through the mounting in proximity to one of the springs; Fig. 6 is a detached perspective view of the support and the spring adjusting device; Figs. 7, 8, 9 and 10 are views similar to Fig. 5 of four other embodiments of the invention, and Fig. 11 is a plan view of the embodiment shown in Fig. 10.

The invention employs a support for the lenses, comprising, in this instance, a bridging portion 1, lens attaching devices 2, and portions 3 at the ends of the bridging portion, preferably connecting the latter with the lens attaching devices. Mounted to swing on the support are the nose guards

comprising preferably levers 4 turning in engagement with the upper faces of the connecting portions 3, and having finger pieces at their forward ends which, in this instance, are each formed by bending the flat stock, of which the levers are made, vertically or downwardly at 5 and extending the same outwardly at 6, a nose engaging member being carried at the rear end of each lever and embodying an upper pad 7 and a lower pad 8.

In order to pivotally support the guards upon the mounting, the connecting portions 3 of Figs. 1 to 6 are each provided with a perforation through which extends a screw fastener having a headed portion 9 engaging the upper surface of the guard lever 4, a shoulder 10 cooperating with the upper surface of the support, and a screw threaded portion 11 projecting from the under side of the support, a bearing portion 12 being provided between the shoulder 10 and the head 9 on which one of the guard levers turns. The screw threaded portion may serve as a support for a spring for positioning the guard, such spring in this instance being in the form of a helical coil 13 having an arm 14 extending rearwardly and preferably loosely engaging the lever 4. To the end of adjusting the tension of each spring the screw fastener 11 may be engaged by an adjustable device 15 which has one end 21 of the spring secured thereto and in this instance cooperates with the support in such a manner that the spring is inclosed. In this embodiment this inclosure is effected by providing an annular pocket 16 in the device 15 and the outer flange 17 thereby formed is notched or serrated to cooperate with serrations or notches 18 formed on the support about the spring. The latter serrations in this embodiment are carried by a depending flange 19 forming a pocket in the support preferably open or slotted at one side as at 20 to permit the arm 14 of the spring to engage the guard. A central boss 22 is also formed on the rotatable adjusting device 15 and acts to give greater bearing to the screw fastener.

In the embodiment of the invention shown in Fig. 7 each connecting portion 3<sup>a</sup> of the lens support is perforated and has the bearing portion 12<sup>a</sup> of the screw fastener turning therein and a head 9<sup>a</sup> engaging the

upper surface thereof. The projecting portion 11<sup>a</sup> of the screw fastener passes through its guard lever 4<sup>a</sup> which is located below its connecting portion 3<sup>a</sup> and engages a rotary adjusting and pocketed device 15<sup>a</sup>. The latter coöperates with the guard in this instance to inclose the spring 13<sup>a</sup> and to this end the under surface of the lever 4<sup>a</sup> is provided with serrations 18<sup>a</sup> while the flange portion 17<sup>a</sup> of the pocketed device has serrations coöperating with the serrations 18<sup>a</sup>. The end 21<sup>a</sup> of the spring is secured to the adjusting device while the end 14<sup>a</sup> extends through a slot 50 in the lever 4<sup>a</sup> and engages the support 3<sup>a</sup>. It is apparent in this construction the housing is effected by the pocketed device 15<sup>a</sup> and that the guard lever 4<sup>a</sup> acts as a closure for the same.

In the embodiment shown in Fig. 8 the connecting portion 3<sup>b</sup> of the support is provided with a pocket in its upper surface and the rotatable adjusting device 15<sup>b</sup> has an annular flanged portion 23 depending into and turning in engagement with the walls of the pocket, being held therein by a screw fastener having a screw threaded portion 11<sup>b</sup> engaging the support 3<sup>b</sup> and a headed portion 9<sup>b</sup> coöperating with the top of the rotary adjusting device 15<sup>b</sup>. The spring 13<sup>b</sup> is arranged within the pocketed portion of the rotary adjusting device 15<sup>b</sup> and is secured at one end 21<sup>b</sup> to the adjusting device and at its other end 14<sup>b</sup> to the support. The lever 4<sup>b</sup> of the nose guard surrounds the rotary adjusting device 15<sup>b</sup> and is secured to the latter by coöperating serrated portions 17<sup>b</sup> and 18<sup>b</sup>.

In the embodiment shown in Fig. 9, the connecting portion 3<sup>c</sup> of the support is provided with a pocket 19<sup>c</sup> in one side and the guard lever 4<sup>c</sup> acts to close said pocket and turns on a bearing portion 12<sup>c</sup> formed on the rotary adjusting device 15<sup>c</sup>. The latter is arranged within the pocket and has serrations 17<sup>c</sup> at one end coöperating with serrations 18<sup>c</sup> in the pocket and held therein by a screw fastener 51 passing through the support. The spring surrounds the rotary adjusting device and has an end 21<sup>c</sup> secured thereto and an end 14<sup>c</sup> secured to the guard lever.

In the embodiment shown in Figs. 10 and 11 the parts are very similar to those illustrated in Fig. 7, the difference being that part of the spring housing is formed by a pocket 19<sup>d</sup> on the guard lever 4<sup>d</sup> and the rear wall of this pocket is cut away at 20<sup>d</sup> in order that the end 14<sup>d</sup> of the spring may be extended into engagement with the connecting portion 3<sup>d</sup> of the support.

In all embodiments of the invention the nose bearing portions of the guards are separated by moving the finger pieces 6 toward each other and are moved together under the action of the coil springs 13.

Should it be desired to change the tension of the springs the screw fasteners are rotated sufficiently to permit the devices 15 and 15<sup>a</sup>, 15<sup>b</sup>, 15<sup>c</sup> and 15<sup>d</sup> to be rotated about the axis of turning of the guard relatively to the parts by which it is carried. After the proper tension on the springs has been secured the rotary adjusting device is moved axially into engagement with its coöperating part and is secured in this position by the screw fastener thus maintaining the adjustment.

From the foregoing it will be seen that there has been provided a construction in which the springs are entirely housed or inclosed while at the same time the tension thereof may be adjusted to obtain the desired pressure upon the nose of the wearer and this without providing a conspicuous construction.

We claim as our invention:

1. The combination with a support for lenses, a nose guard mounted to swing thereon and a device adjustable on one of said parts about the axis of turning of the guard, one of said three parts being provided with a pocket and coöperating with another of said parts to close the pocket, of a coil spring arranged in said pocket, secured at one end to said adjustable device and at its other end to one of the first two named parts.

2. In an eyeglass mounting, the combination with a support for lenses and a nose guard mounted to swing thereon, of a coil spring for the guard having one end secured to one of said parts, and a device coöperating with the other of said parts to inclose said spring, said device having the other end of the spring secured thereto and being adjustable relatively to the part with which it coöperates to vary the tension of the spring.

3. In an eyeglass mounting, the combination with a support for lenses and a nose guard mounted to swing thereon, one of said parts being provided with a pocket, of a coil spring arranged in the pocket and having one end connected to the other of said parts, and a device connected to the other end of the spring, closing the pocket and adjustable on the pocketed part.

4. In an eyeglass mounting, the combination with a support for lenses, and a nose guard mounted to swing thereon, of a coil spring for positioning the guard having one end secured to one of said parts, and a device arranged to surround the spring, having the other end of the latter secured thereto and adjustable on the other of the first two named parts of the mounting.

5. In an eyeglass mounting, the combination with a support for lenses and a nose guard mounted to swing thereon, of a coil spring for positioning the guard, secured at one end to one of the first two named parts, and a pocketed device surrounding the spring,

adjustable on the other of the first two named parts and connected to the other end of the spring.

6. In an eyeglass mounting, the combination with a support for lenses and a nose guard mounted to swing thereon, one of said parts being provided with a pocket, of a coil spring for the guard arranged in the pocket and secured at one end to the other part and a pocketed device surrounding the spring and having the other end of the spring secured thereto.

7. The combination with a support for lenses provided with a pocket, of a nose guard mounted to swing on the support, a device rotatably adjustable about the axis of turning of the guard on one of the first named parts, one of the last two named elements cooperating with the support to close the pocket, and a coil spring mounted in the pocket, secured at one end to the adjustable device and at its other end to one of the first two named parts.

8. The combination with a support for lenses provided with a pocket and a nose guard mounted to swing thereon, of a coil spring arranged in the pocket and having one end secured to the guard, of a device cooperating with the pocket to inclose the spring and having the other end of the latter secured thereto.

9. The combination with a support for lenses, a nose guard mounted to swing thereon, and a device rotatably adjustable on one of the first two named parts about the axis of rotation of the guard, one of the first three named parts being provided with a pocket and cooperating with one of the other two parts to close the pocket, of a coil spring arranged in the pocket, having one end secured to the rotary adjusting device and the other end secured to one of the first two named parts, and a pivot pin for the guard acting to retain the rotary adjusting device in adjusted position.

10. The combination with a support for

lenses and a nose guard mounted to swing thereon, of a screw threaded device projecting from the support, a coil spring surrounding said device and secured at one end to one of said parts, a device engaging the screw threaded device, cooperating with the other of the first two named parts to inclose the coil spring and having the other end of the spring secured thereto.

11. The combination with a support for lenses, a nose guard and a device cooperating with one of said parts to provide an inclosed pocket, of a screw fastener passing through two of said parts and engaging another, and a coil spring arranged in the pocket and having one end secured to said device and the other end secured to the guard.

12. The combination with a support for lenses, and a nose guard mounted to swing thereon, of a screw threaded device on the support, a coil spring for positioning the guard surrounding the screw threaded device, and a device engaging the thread of said screw threaded device and cooperating with one of the first two named parts to inclose the spring.

13. The combination with a support for lenses comprising a bridging portion, and perforated portions at the ends of the bridging portion, of headed screw fasteners each passing through the perforated portion of the support and having a shoulder engaging the latter, nose guards each turning on one of the fasteners on one side of each perforated portion, a coil spring surrounding each screw fastener on the opposite side of the support, and devices each engaging the screw threaded portion of one of the fasteners and cooperating with the support about the spring to inclose the latter.

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