W. S. SEARLES.

FINGER PIECE MOUNTING FOR EYEGLASSES.

APPLICATION FILED APR. 28, 1911.

1,068,940. Patented July 29, 1913.

Fig. 2.

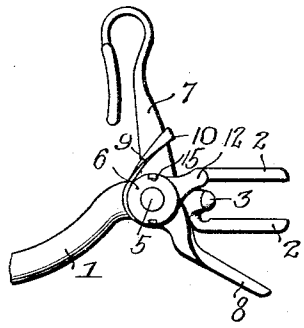


Fig. 1.

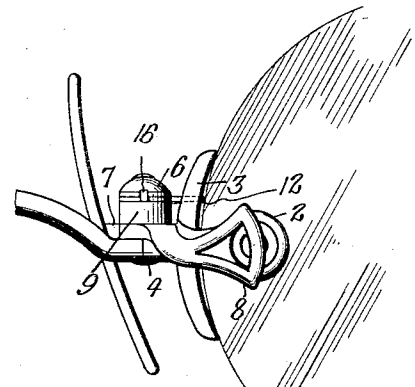


Fig. 3.

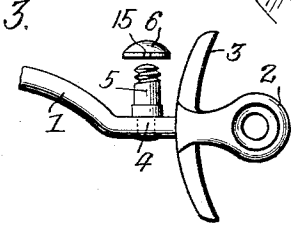


Fig. 4.

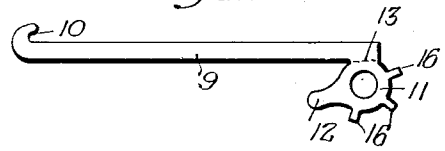


Fig. 5.

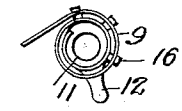


Fig. 6.

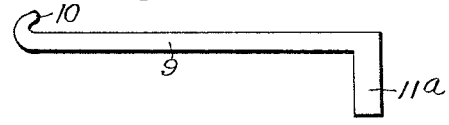


Fig. 7.

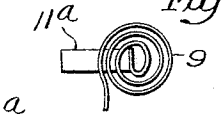
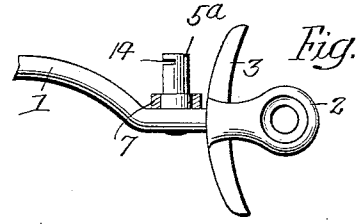


Fig. 8.



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UNITED STATES PATENT OFFICE.

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FINGER-PIECE MOUNTING FOR EYEGLASSES.

1,068,940. Specification of Letters Patent. Patented July 29, 1913.

Application filed April 28, 1911. Serial No. 623,831.

To all whom it may concern:

Be it known that I, WAYNE S. SEARLES, a citizen of the United States, and a resident of Providence, in the county of Providence, State of Rhode Island, have invented certain Improvements in Finger-Piece Mountings for Eyeglasses, of which the following is a specification.

One object of my invention is to provide a simple, substantial and relatively inexpensive mounting for the so-called finger pieces forming part of or attached to the guards of eye-glasses, which while being of such a construction that none of its parts shall become unscrewed or loosened under conditions of use, shall permit of the convenient removal of said guards or their associated parts.

I further desire to so arrange the nose guard spring and its retaining nut on their supporting post that as said spring is contracted or expanded under conditions of use, it shall not be capable of exerting any turning action on said nut which might cause it to become loosened and ultimately lost.

These objects and other advantageous ends I secure as hereinafter set forth, reference being had to the accompanying drawings; in which:—

Figure 1, is a side elevation of a portion of an eye-glass frame, illustrating my invention as applied thereto; Fig. 2, is a plan of the parts shown in Fig. 1; Fig. 3, is a side elevation of part of the eye glass frame shown in Fig. 1, but with the finger piece and spring removed; Figs. 4 and 5 are two plan views of the spring in its unformed and formed conditions respectively; Figs. 6 and 7 are plan views similar to Figs. 4 and 5, illustrating a slightly modified form of spring; and Fig. 8, is a side elevation of part of an eye glass frame showing a modified form of the invention.

In the above drawings 1 represents a portion of the bridge of an eye glass frame having the customary clamping arms 2 and strap 3 for the reception of a lens. Between said strap and the adjacent end of the bridge 1 is a flattened disk-like portion 4 in which I mount a post in the form of a stud 5, riveting or soldering this in place so that it is in effect part of the frame structure. A nut 6 is mounted on the threaded upper end of said stud on which is also loosely carried a guard whose arm is indicated at 7. This latter is extended to provide the finger piece 8. In order to cause the guard to firmly engage the nose of the wearer of the glasses, a spring is likewise mounted on the stud 5 as indicated. Said spring consists of a flat strip 9 of spring material having a hook 10 at one end and in the present instance an enlarged perforated portion 11 at the opposite end; it being noted that said portion extends practically at right angles to the general line of the strip and has a projecting arm 12. In forming this spring to serve the purpose for which it is designed, the part 9 is bent at right angles on the dotted line indicated at 13, so as to lie in a plane at right angles to the plane of the part 11, and is thereafter coiled to form a spiral spring surrounding the stud which projects through the perforation in the part 11.

In mounting the spring on the eye glass frame it will be noted that the hooked end 10 thereof is caused to engage the arm 7 of the nose guard, while the projection 11 lies immediately under the nut 6 so that the arm 12 engages the strap 3. With this arrangement of parts, the movement of the finger piece 8 toward the bridge, and of the guard with its arm 7 away from the same, is resisted by the spring which tends to return these parts to their normal positions. It is noted, however, that the successive tightening and loosening of the convolutions of the spring upon their post 5, can by no possibility affect the nut 6 or tend to turn it on said post to cause it to become unscrewed, and as is obvious, there is no possibility of the stud or post becoming loosened in the part 4 of the frame in which it is mounted, since, as noted, it is permanently fixed therein. As an additional precaution I may provide recesses 15 in the sides of said nut and form the spring with a number of marginal projections 16 any one of which may be turned up to enter one of said recesses to rigidly and positively hold the nut from rotating after the parts of the device have been assembled. As is obvious, these projections and the recesses

of the nut may be omitted without departing from my invention. By this particular construction I have obviated a most serious objection to the use of spring actuated nose guards of the removable type, for much trouble has hitherto been experienced owing to the loosening of the spring-supporting screw under conditions of use. With my invention, when it is desired to remove the spring, the nut may be very conveniently and quickly taken from the stud 5 as may also the nose guard;—the projections 16, if used, being bent down to permit the nut being turned. At the same time, after the parts have again been assembled and the nut screwed up to the desired point, there is nothing tending to cause it to become loosened even under the most severe conditions found in practice.

It is obvious that under certain conditions, the nut may be omitted and the upper end of the stud formed as indicated at 5^a in Fig. 8, with a transverse notch 14. With this construction the spring and nose guard are mounted on the stud as before and the part 11 of the spring so far enters the notch as to prevent said parts being removed or becoming displaced as long as the hooked end 10 remains in engagement with the nose guard. If desired, I may, under certain conditions, form the spring with a straight lateral extension 11^a as shown in Fig. 6. In this case the stud or post extends through the center of the coiled spring, and the part 11^a forms a straight arm for engaging the strap 3.

It will be understood that while I have illustrated but one end of the frame of a pair of eye glasses, the opposite end is of a similar formation, and like that shown, is provided with lens holding devices and a guard mounting identical in construction with those shown. If desired I may, under certain conditions, form the spring from wire of circular section instead of from flat strip material as heretofore described, without departing from my invention.

I claim;—

1. An eye glass frame having at each end a device for the attachment of a lens; a post permanently mounted in said frame; a nose-guard; a flat strip wound around the post to form a spring; said spring and guard both being mounted on the post and the spring being hooked to the guard; with a nut on the post for confining the spring and guard in position, and means for holding immovable the part of the spring adjacent the nut when the guard is moved.

2. An eye glass frame having at each end a device for the attachment of a lens; a post permanently mounted in said frame; a nose-guard and a spring for actuating the same both mounted on the post; means for holding immovable a portion of said spring adjacent the free end of the post and lying in a plane at right angles to the plane of the main portion of the spring; with means for holding said parts on the post.

3. An eye glass frame having at each end a device for the reception of a lens; a post permanently mounted on said frame; a nut on the post; a nose guard and a spring both mounted on the post, said spring being connected to act on the nose guard with means for holding immovable a portion of the spring adjacent the nut when the nose guard is moved on the post.

4. The combination of an eye glass frame having at each end means for the attachment of a lens including a strap; a post permanently mounted on said frame adjacent said strap; a nut removably mounted on the post; a nose guard on the post having a finger piece; and a spring having one end operative on the nose guard structure and its opposite end in engagement with the strap; said spring being coiled around the post; with means for holding immovable a portion of the spring adjacent said nut when the nose guard is moved.

5. The combination of an eye glass frame having at each end means for the attachment of a lens and provided with a strap; a post permanently fixed to said frame adjacent said strap; a nut for said post; a nose guard loosely mounted on the post and provided with a finger piece; with a spring coiled on the post and having one end operative on the nose guard; the opposite end of said spring being perforated for the passage of the post and extending immediately adjacent the nut into engagement with the strap.

6. An eye glass frame having at each end means for the attachment of a lens; a post permanently mounted at each end of the frame; a nose guard and a spring for the same mounted on each post; with a nut threaded on the post and provided with recesses, said spring having projections formed to enter the recesses of the nut to prevent movement of the same.

7. The combination of an eyeglass frame having at each end means for the attachment of a lens and provided with a strap; a post on said frame adjacent each strap; nuts for said posts; a nose guard loosely mounted on each post and provided with a finger piece; with a spring coiled on each post and having one end operative on the nose guard; the opposite end of said spring having an apertured flat portion for the passage of the post therethrough extending immediately adjacent the nut into engagement with the strap.

8. An eyeglass mounting comprising a bridge member, pivot posts on said member, a nose grip operatively mounted on each of said pivot posts; a flat spiral spring coiled about each post arranged to engage and press said grips toward each other, said

spring having a flange formed integral with its upper edge to extend out over the coil, locking means formed integral with said flange and means carried by said post to receive said locking means and retain the spring in position on its post.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

WAYNE S. SEARLES.

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."