No. 725,478. PATENTED APR. 14, 1903.

H. S. PETERS.

SPRING AND GUARD LOCK FOR EYEGLASSES.

APPLICATION FILED NOV. 12, 1902.

NO MODEL.

Fig. 1

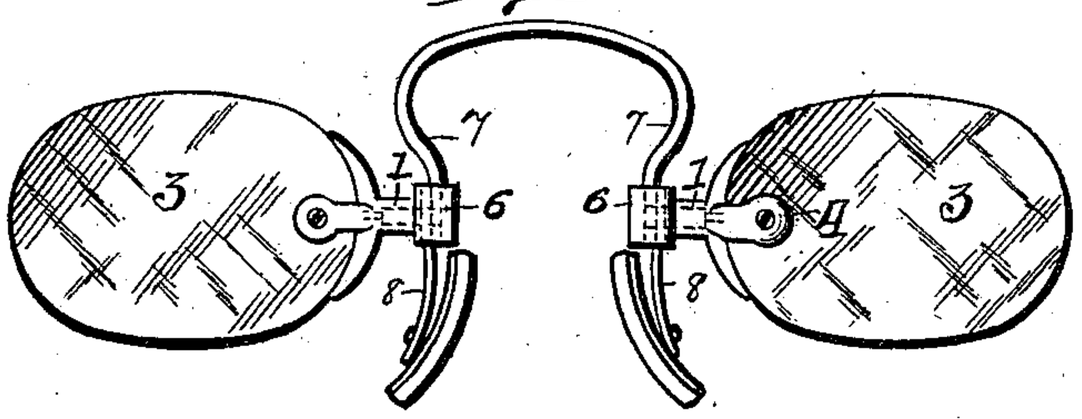


Fig. 2.

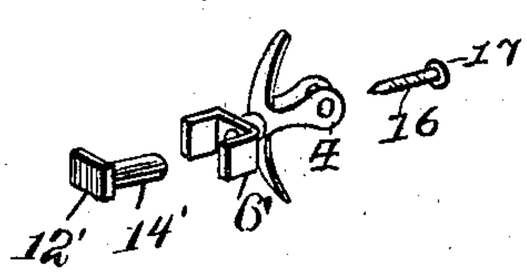


Fig. 3.

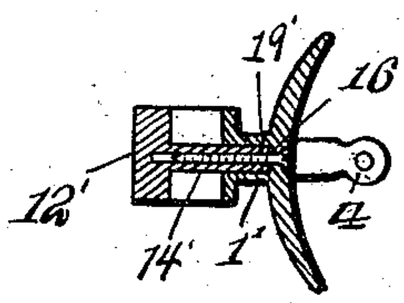


Fig. 4.

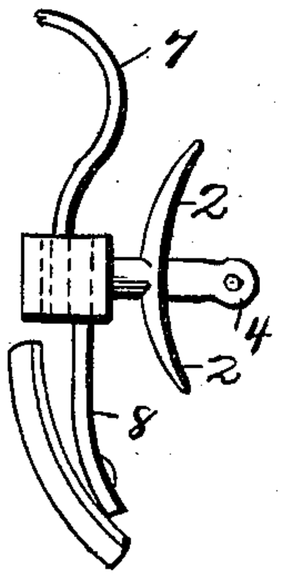


Fig. 6.

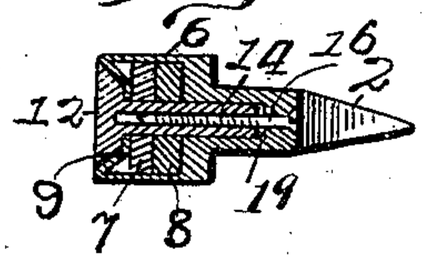


Fig. 5.

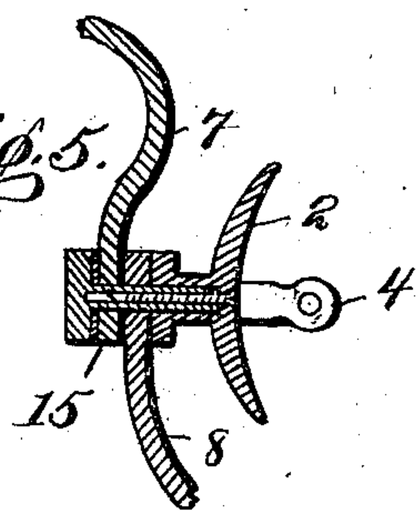
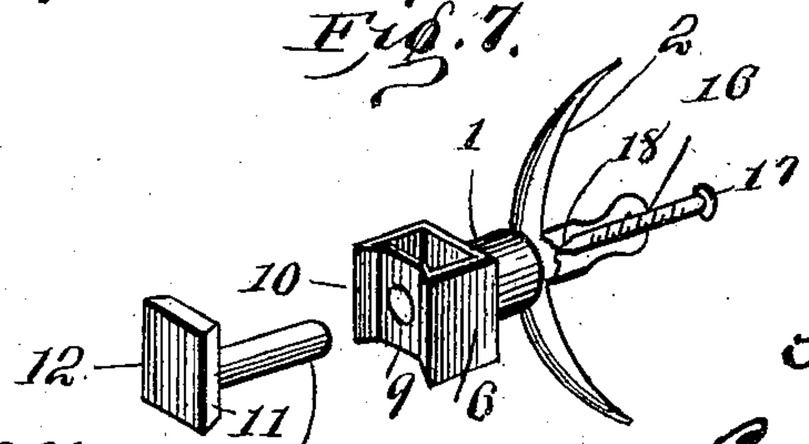


Fig. 7.



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UNITED STATES PATENT OFFICE.

HARRY S. PETERS, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO DAVID W. BROBECK, OF ALLEGHENY, PENNSYLVANIA.

SPRING AND GUARD LOCK FOR EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 725,478, dated April 14, 1903.

Application filed November 12, 1902. Serial No. 130,988. (No model.)

To all whom it may concern:

Be it known that I, HARRY S. PETERS, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Spring and Guard Locks for Eyeglasses, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in spring and guard locks for eyeglasses; and the invention has for its primary object the provision of novel means for the secure locking of the spring and of the guards of eyeglasses in such a manner that the same may be held rigid in their supports and lateral movement thereof prevented.

Briefly described, the invention comprises an interiorly-threaded sleeve which passes into the post to which the eyeglasses are attached, the sleeve being provided at its one end with a head adapted to engage and bind the ends of the spring and guard within the box of the post, the inner end of the sleeve fitting against the shoulder provided therefor in the post and the sleeve being held in position by the screw inserted into the post in the opposite direction to that in which the sleeve is inserted.

Further details of construction entering into the invention will be hereinafter more fully described, and specifically pointed out in the claims, and in describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a plan view showing my improved spring and guard lock in position. Fig. 2 is a detail perspective view of a modified construction with the parts disassembled. Fig. 3 is a central longitudinal sectional view of the modified form with the parts in position, the spring and guard and eyeglass being removed. Fig. 4 is a detail side elevation of the preferred form of construction, showing the guard and spring secured therein, the spring being partly broken away. Fig. 5 is a central vertical sectional view of the same. Fig. 6 is a horizontal sectional view thereof. Fig. 7 is a detail perspective view of the parts of the preferred form of construction disassembled.

In accordance with my invention I construct the post 1 with the usual curved flanges 2, which are adapted to engage the periphery of the eyeglass 3 at the inner end of the latter, this post also carrying the side straps 4, through which the securing rivet or screw is passed for securing the eyeglass 3 to the post. In my improved form of construction I construct the post with a box 6, the top and bottom of which are open to receive the spring 7 and guard 8, the front wall 9 of the box being bent inwardly at the edges to form the inclined walls 10, adapted to receive the inclined or beveled walls 11 of the head 12 of the locking-sleeve 14. The front wall 9 of the box is made of very thin material, so that it will be pressed inwardly as the locking-sleeve 14 is tightened. This locking-sleeve 14 is provided with an interior thread 15, which receives the screw 16, by means of which the sleeve is locked in position. This screw is provided with a head 17, which is countersunk in the flange 2, the point 18 of the screw being unthreaded in order to facilitate the entrance of the screw into the sleeve. The opening which receives the sleeve 14 does not extend entirely through the post and terminates at a point adjacent the one end thereof, thereby forming a shoulder 19, against which the inner end of the sleeve 14 abuts. The threaded opening in the sleeve 14 is made throughout the length of the sleeve, whereby the screw 16 when inserted therein will not engage the inner end of the opening, but sufficient space will be left to allow for any tightening movement of the screw. In the construction shown in Figs. 2 and 3 the box 6′ is opened at the front as well as top and bottom, and the sleeve 14′ is provided with a head 12′, which binds the spring 7 and guard 8 in the box. The post 1′ in this construction is provided with an interior annular shoulder 19 to be engaged by the inner end of the sleeve 14′, the latter being provided with an interiorly-threaded recess or screw opening to receive the locking-screw 16.

It is understood, of course, that the spring 7 and guard 8 are provided with registering openings to receive the sleeves 14 and 14′. It will be observed that the head of the sleeve impinging the spring and the guard between the same and the inner wall of the box, the spring and guard are securely held, while the fastening is an extremely rigid one by reason of the sleeve passing into the post, presenting a fastening of much greater strength and rigidity than is obtained where the screw alone is employed for passing through the spring and the guard and engaging in a washer, which is a common form of construction for the purpose of securing the spring and guard in position. The head of the sleeve being seated and the end of the sleeve being seated against the annular shoulder, the sleeve is rigid within the post, and the parts are bound in this rigid position by the screw engaging into the sleeve.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A spring and guard lock for eyeglasses, comprising a post carrying straps on one end to receive the eyeglass, and a box on its other end, said post having an opening therethrough, a sleeve fitted in said opening and having a head to lie within the box, and a screw inserted into the post from the strap end of the latter and engaging in the sleeve, substantially as described.

2. A lock for spring and guard of eyeglasses, comprising a post provided with straps on one end and being formed with a pair of openings of different diameters extending inwardly from its opposite ends, a box on the other end of the post, a sleeve fitted in the larger opening in the post and a locking-screw arranged in the other opening thereof and engaging said sleeve.

3. In a lock for eyeglass spring and guards, the combination with a post having an opening therethrough, a box on one end of said post with its front face bent inwardly to form a seat, a sleeve having a head to engage in said seat and provided with an interiorly-threaded recess, and a locking-screw passing through the opposite end of the post and into the threaded recess in the sleeve to lock the latter in position, substantially as described.

4. In a device of the type set forth, the combination with the post, of a box secured to one end of the said post, said box having its front face bent inwardly, means seated in the inbent portion of the box for engagement with the eyeglass-spring, and a locking means extending through the said post and engaging the said last-named means, substantially as and for the purpose specified.

In testimony whereof I affix my signature in the presence of two witnesses.

HARRY S. PETERS.

Witnesses:
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