

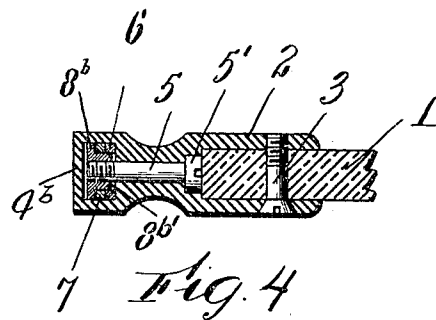
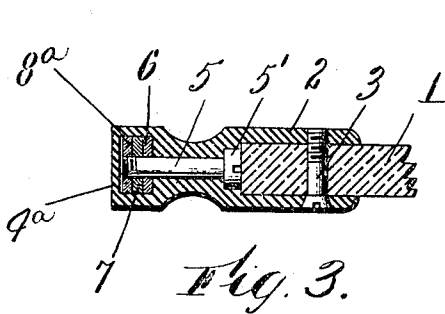
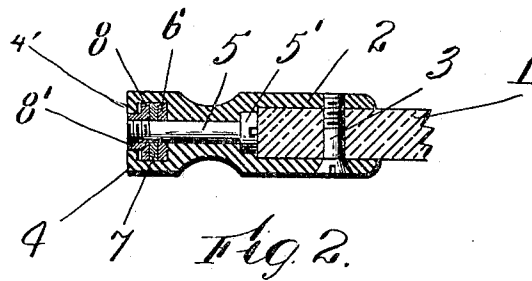
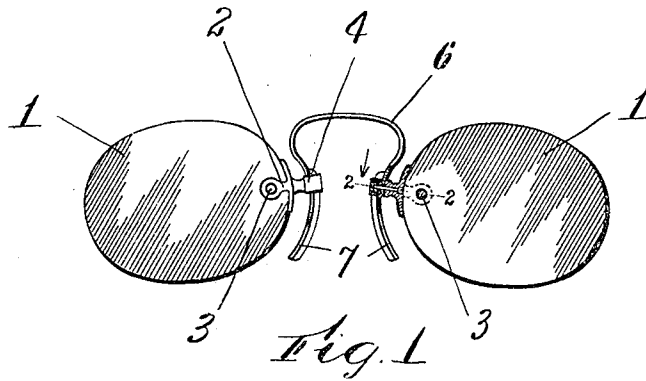
No. 818,720.

PATENTED APR. 24, 1906.

J. C. WELLS.

EYEGLASSES.

APPLICATION FILED MAR. 30, 1904.



Witnesses:
C. F. Mason.
W. H. Leas.

Inventor:
J. C. Wells.
By his Attorney
John C. Dewey.

UNITED STATES PATENT OFFICE.

JOEL C. WELLS, OF SOUTHBRIDGE, MASSACHUSETTS.

EYEGLASSES.

No. 818,720.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed March 30, 1904. Serial No. 200,681.

To all whom it may concern:

Be it known that I, JOEL C. WELLS, a citizen of the United States, residing at Southbridge, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Eyeglasses, of which the following is a specification.

My invention relates to eyeglasses, and more particularly to an improvement in the construction of the post and the means of attaching the bow-spring and nose-guard therein.

In eyeglasses as ordinarily made the post has an open end recess to receive the end of the bow-spring and the end of the nose-guard, which are secured therein by a screw inserted from the outside. This construction of the post is unsatisfactory, for the projections forming the sides of the recess have a tendency to spread and allow the spring and nose-guard to move from side to side, and consequently cause the fastening-screw to work loose. An improvement has been made on this open end recess in the post, consisting of a closed-end or box post having a transverse opening therethrough to receive the end of the spring and nose-guard, with the fastening-screw inserted through the closed end of the post; but in this construction the fastening-screw will turn out and work loose. In connection with a closed-end post with a transverse opening therethrough for the spring and nose-guard a fastening-screw has been used, which is inserted from the inner end of the post and screwed into a threaded hole within the outer closed end of the post, as shown in United States Letters Patent No. 626,536; but this construction has not proved practical, for the reason that springs and nose-guards of exactly uniform thickness have to be used to fill the transverse opening through the post and prevent any side movement of the spring and nose-guard. A great many different kinds of bow-springs and nose-guards are used with eyeglasses at the present time, made in different shapes and of varying thicknesses, so that it is difficult to obtain the exact thickness required to fill the transverse opening in the post patented in said Patent No. 626,536. It is especially desirable to have a post with a closed outer end and a transverse opening therethrough which will receive bow-springs and nose-guards of varying thickness and to pro-

vide means for securely holding the same in the post and prevent any movement thereof or any working loose of the holding-screw.

The object of my invention is to provide a closed end box or post having a transverse opening therethrough for the bow-spring and nose-guard, with which springs and guards of varying shape and thickness may be used, and to provide means for securely holding the spring and guard and for preventing the working loose of the holding-screw.

In my improvements I insert the holding-screw from the inner end of the post and I employ a washer within the transverse opening in the post and having a threaded hole to receive the threaded end of the fastening-screw, which acts to bind the spring and guard between the washer and the inner end of the transverse opening through the post without regard to the thickness of the spring and guard. The washer also acts to hold the fastening-screw with its head bearing against the inner end of the longitudinal hole in the post and prevent any turning or working loose of the same.

My invention consists in certain novel features of construction of my improvements, as will be hereinafter fully described.

Referring to the drawings, Figure 1 is a front view of a pair of eyeglasses embodying my improvements with one of the posts shown in section. Fig. 2 is, on an enlarged scale, a section on line 2 2, Fig. 1, looking in the direction of the arrow, same figure. Fig. 3 corresponds to Fig. 2, but shows a modified construction; and Fig. 4 corresponds to Fig. 2, but shows another modified construction.

In the accompanying drawings, 1 represents the lenses.

2 represents the lens-holding brackets, secured to the lenses by the screws 3 in the ordinary way. On each lens-holding bracket 2 is a closed-end or box post 4, which has a central longitudinal hole therein for the fastening-screw 5, which is inserted from the inner end of said post before the bracket 2 is secured to the lens 1. The head 5' of the fastening-screw 5 extends in the enlarged end of the opening in the post 4 and may bear against the edge of the lens, as shown; but this is not necessary.

The post 4 has a closed outer end and has a transverse opening therethrough to receive

the end of the bow-spring 6 and the end of the nose-guard 7, which must be inserted through said transverse opening, and also to receive a washer 8, which preferably has a
 5 hub 8' screw-threaded internally and which may extend through a central opening in the outer end of the post 4, as shown in Fig. 2, the outer ends of the walls forming the transverse opening for the nose-guard and bow-spring being nevertheless rigidly joined or
 10 connected together by the end wall or plate 4'. The fastening-screw 5 has a thread on the end thereof to engage the thread in the washer 8, as shown in Fig. 2.

15 The parts are assembled together by first inserting the washer 8 into the transverse opening in the end of the post 4 and moving the hub 8' into the central opening in the wall at the outer end of the post. The end of
 20 the spring 6 and the end of the nose-guard 7 are then inserted into the transverse opening in the post 4, so that the holes through said nose-guard and spring will be in line with the central opening through the post 4 and the
 25 opening through the washer 8. The fastening-screw 5 is then inserted from the inner end of the post 4, and the threaded end will pass loosely through the holes in the spring 6 and nose-guard 7 and into the threaded opening
 30 in the washer 8. The fastening-screw 5 is then turned or screwed so that the threaded end will screw into the washer 8. The head of the screw bears against the enlarged end of the opening through the post, and the turning
 35 of the screw will draw down the washer 8 within the post and bind securely the end of the spring and the end of the nose-guard within the opening through the post, as shown in Fig. 2, without regard to the thickness of the
 40 spring and guard. The bracket 2 is then secured onto the inner edge of the lens 1 by the holding-screw 3 in the ordinary way.

In Fig. 3 is shown a modified construction. In said figure the outer end wall of the post 4^a
 45 is without any central opening therethrough, and the washer 8^a has no hub thereon. It is inserted into the transverse opening through the end of the post and the end of the fastening-screw 5 screwed therein in the same manner as described above in connection with
 50 Fig. 2.

In Fig. 4 is shown another modified construction. In said figure the end wall of the post 4^b is without any central opening there-
 55 through, and the washer 8^b has a hub 8^b thereon which extends loosely within the openings in the end of the spring 6 and the end of the nose-guard 7. The screwing of the fastening-screw 5 into the washer 8^b will
 60 draw said washer down and bind the end of the spring 6 and the end of the nose-guard 7 within the transverse opening in the post.

The advantages of my improvements will

be readily appreciated by those skilled in the art. In my construction I have a closed-end
 65 post which preferably has a central opening therein to receive an extension on the washer. By using a washer with a hole therethrough the length of the screw 5 may vary, as it may extend beyond the washer.
 70 In case of a washer without a hole therethrough the screw 5 would have to be cut the exact length, so that when inserted it will bind the guard and spring tightly against the inner end of the head of the post. This would
 75 be impracticable in practice. In my construction where the washer extends through an opening in the closed outer end of the post a screw of unlimited length can be used, the projecting end of the same being cut off, and
 80 this construction always serves to bind the spring and guard against the inner surface of the head of the post and securely hold the same without regard to any variation in thickness of the spring and guard, which, as
 85 far as I am aware, has never been done before with a closed-end post.

It will be understood that the details of construction of my improvements may be varied, if desired.
 90

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

1. In an eyeglass, the combination with a post having a longitudinal opening therein
 95 for the fastening-screw, and a transverse opening therethrough for the nose-guard and bow-spring, an end wall rigidly connecting the side walls of said transverse opening for the nose-guard and bow-spring to prevent
 100 spreading of the fastening-screw extending in said longitudinal opening, and a washer having a threaded opening therethrough to receive the threaded end of said screw, and extending in said transverse opening, and acting
 105 to bind the nose-guard and bow-spring in said transverse opening.

2. In an eyeglass, the combination with a post having a longitudinal opening therein for the fastening-screw, and a transverse opening
 110 therethrough for the nose-guard and bow-spring, an end wall rigidly connecting the side walls of said transverse opening for the nose-guard and bow-spring to prevent spreading, a central perforation in said end wall of the fastening-screw extending in said longitudinal opening, and a washer having a threaded opening therethrough to receive the threaded end of said screw, and a projection on said washer extending into said central
 115 perforation, said washer acting to bind the nose-guard and bow-spring in said transverse opening.
 120

3. In an eyeglass, the combination with a post having a longitudinal opening therein
 125 for the fastening-screw, and a transverse

opening therethrough for the nose-guard and
bow-spring, an end wall rigidly connecting
the side walls of said transverse opening for
the nose-guard and bow-spring to prevent
5 spreading of the fastening-screw extending in
said longitudinal opening, and a washer hav-
ing a threaded opening therethrough to re-
ceive the threaded end of said screw, said
washer extending entirely within said trans- 10
verse opening, and acting to bind the nose-
guard and bow-spring in said transverse
opening.

JOEL C. WELLS.

Witnesses:

J. C. DEWEY,
M. HAAS.