

(No Model.)

J. F. SUMNER.
EYEGASSES.

No. 599,950.

Patented Mar. 1, 1898.

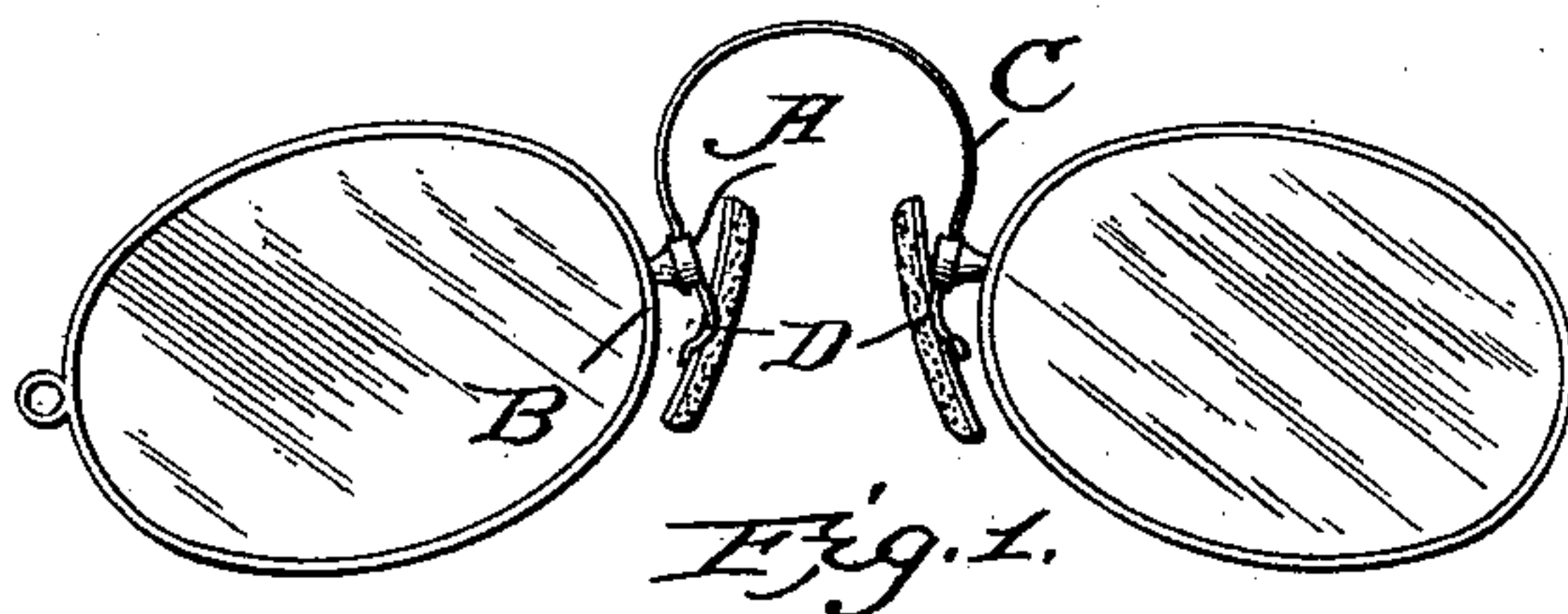


Fig. 2.

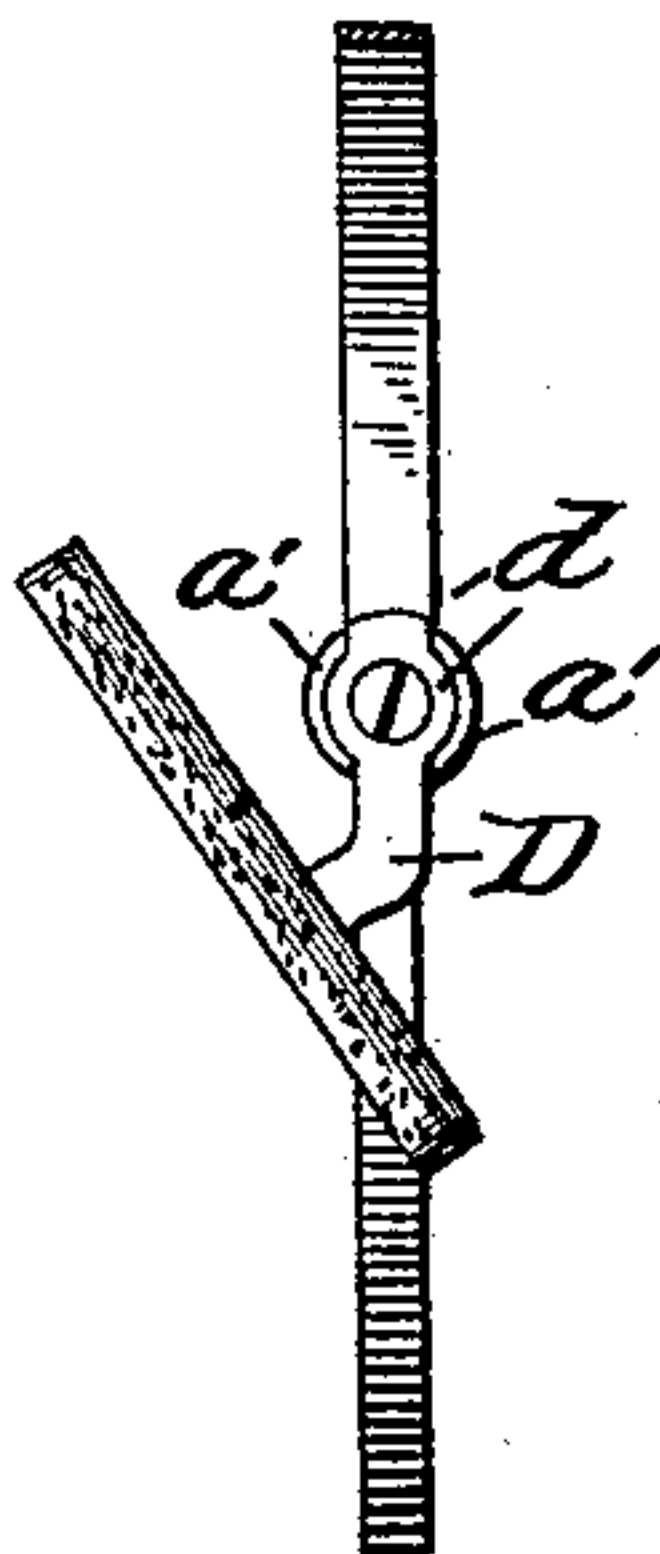


Fig. 4.

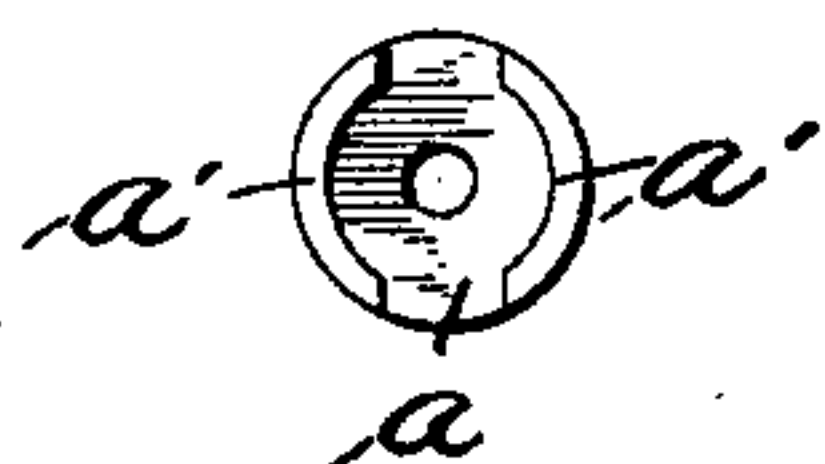
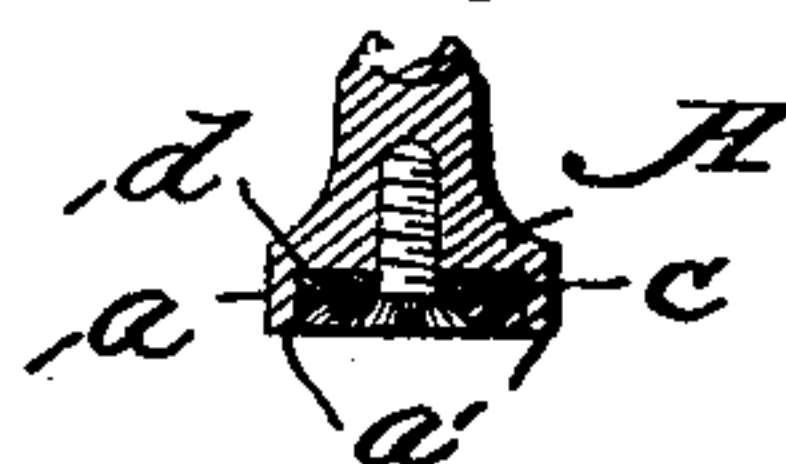


Fig. 3.



Attest
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UNITED STATES PATENT OFFICE.

JOHN F. SUMNER, OF MALDEN, MASSACHUSETTS.

EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 599,950, dated March 1, 1898.

Application filed June 22, 1897. Serial No. 641,826. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. SUMNER, a citizen of the United States, residing at Malden, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Eyeglasses, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in eyeglasses, and is designed to provide an improved form of connection between the spring and the post and between the nose-pad-carrying arm and post, being adapted to frameless glasses as well as those with frames.

Prior to my invention considerable trouble has been experienced with eyeglasses by reason of the breaking of the springs at the point where the metal is weakened by the hole which is formed for the passage of the screw which secures the spring to the post. By my invention this objection is entirely removed and a construction is provided in which the parts may be much more quickly assembled and the screw-head may be countersunk to give a neater appearance.

In the accompanying drawings, Figure 1 is an elevation of a portion of a pair of eyeglasses, showing the spring secured to the post in accordance with my invention. Fig. 2 is an edge view of the same. Fig. 3 is a sectional detail view, and Fig. 4 is a detail view of the face of the post.

Referring more particularly to the figures, A represents the post, which in the present instance is shown as attached in the usual manner to the rim B, though, of course, it will be understood that where the frames are dispensed with the post is secured directly to the lens in the usual or any desired manner. The head *a* of the post is made circular and is provided with two oppositely-placed segmental flanges *a'*, which are of a height corresponding to the combined thickness of the spring end and the end of the arm which carries the nose-pad. The end of the spring C is enlarged at its end to form a circular portion *c*, corresponding in size to the space between the flanges *a'*, and the hole for the

securing-screw is made through the center of this circular portion. In a similar manner the end of the arm D which carries the nose-pad is enlarged to form a circular plate *d*, adapted to fit snugly between the flanges, and is provided with a central opening for the screw. By this arrangement it will be observed that neither the spring nor the arm carrying the nose-pad is weakened by the hole for the securing-screw, as ample material is provided around both parts on each side, and, further, that the segmental flanges nearly surround the perforated portions and greatly assist in holding and bracing them.

By reason of the ample thickness of the metal around the screw-hole it is possible to provide a conical-headed screw and to countersink the same in the end of the nose-pad arm, so that a perfectly smooth and flush surface is presented. It will also be further noted that by reason of the segmental shape of the flanges much greater strength is secured, as owing to their segmental or curved shape they are less likely to get bent over than where a plain straight flange is used.

I find it desirable to mill or roughen the beveled part of the screw-head, as this will cause it to bind against the countersunk portion and effectually hold it in place, thus preventing the posts from working loose.

Having thus described my invention, what I claim is—

1. In combination the spring having an enlarged end with a central opening, the post having flanges fitting said enlarged end, and the securing-screw passing through the central opening and engaging the post, substantially as described.

2. In combination the spring having an enlarged circular end, the post having oppositely-arranged segmental flanges, and the securing-screw passing through a central opening in the enlarged head and engaging the post, substantially as described.

3. In combination, the post having a circular head provided with oppositely-arranged segmental flanges, the spring having a circular enlarged head fitting within said flanges,

the arm for the nose-pad having also a circular end fitting within said flanges, and the securing-screw passing through both said enlarged ends and having its head countersunk,
5 substantially as described.

4. In combination the post, the spring, and a screw passing through the spring, and engaging said post, said screw having a beveled head, the beveled edges of which are milled

and engage a countersunk opening, substantially as described.

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

JOHN F. SUMNER.

Witnesses:

RODNEY LUND,
C. H. WELCH.