No. 841,026. PATENTED JAN. 8, 1907.

J. D. LEWIS.

EYEGLASSES.

APPLICATION FILED MAR. 19, 1906.

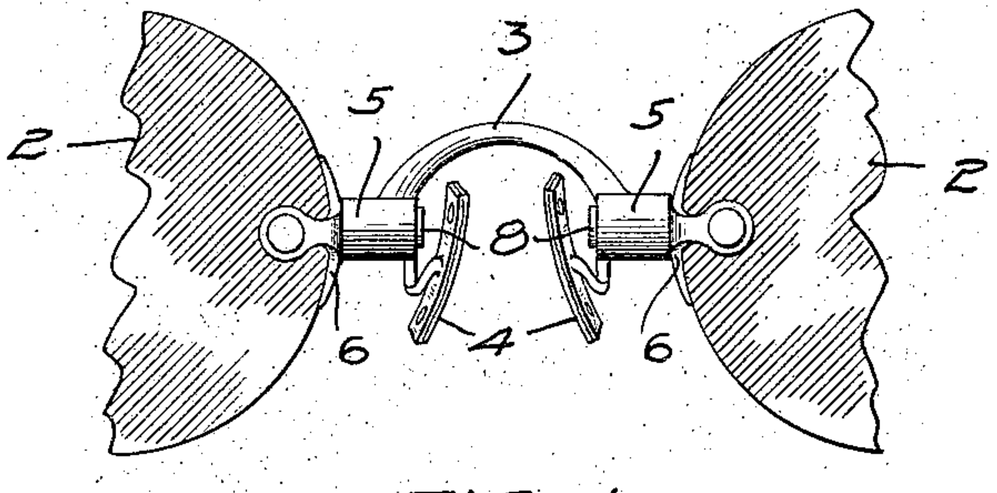

FIG. 1

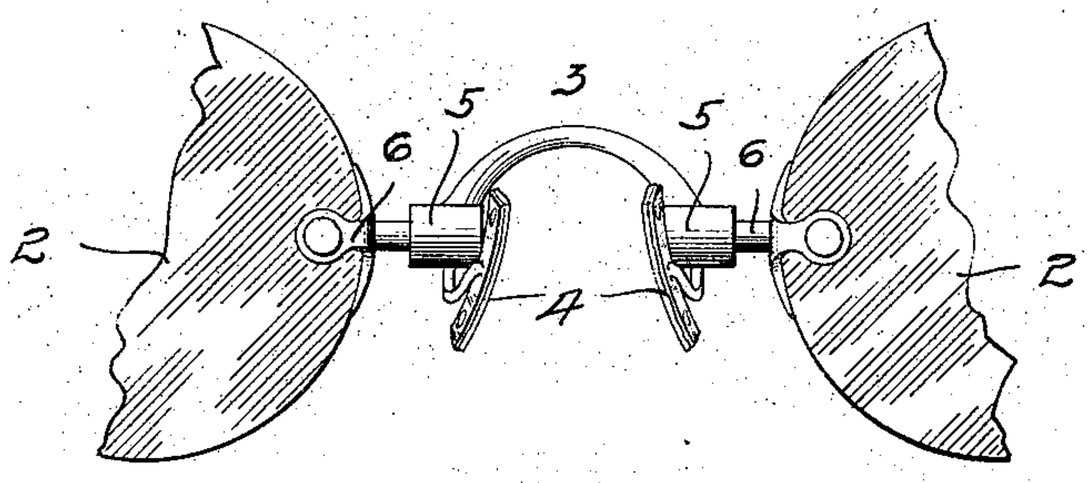

FIG. 2.

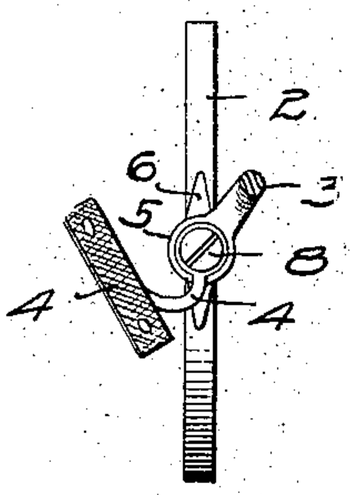

FIG. 3.

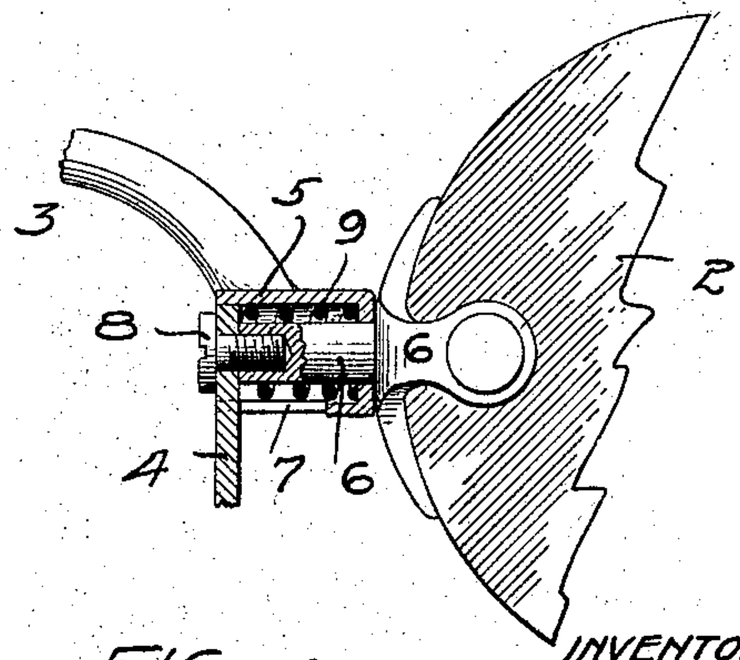

FIG. 4.

WITNESSES
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UNITED STATES PATENT OFFICE.

JOSEPH D. LEWIS, OF ST. PAUL, MINNESOTA.

EYEGLASSES.

No. 841,026. Specification of Letters Patent. Patented Jan. 8, 1907.

Application filed March 19, 1906. Serial No. 306,921.

To all whom it may concern:

Be it known that I, JOSEPH D. LEWIS, of St. Paul, in the county of Ramsey, State of Minnesota, have invented certain new and useful Improvements in Eyeglasses, of which the following is a specification.

My invention relates to improvements in eyeglasses, and particularly to eyeglasses provided with a rigid bridge or nose-piece.

The invention consists generally in eyeglasses having a suitable bridge, with lens-clamps adapted to slide toward and from each other in suitable supports at the ends of the bridge, nose-guards or grips connected and moving with said lens-clamps and with means for holding said guards and clamps with a yielding pressure at the inner limit of their movement.

The invention consists, further, in the constructions and combinations hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a rear elevation of a pair of eyeglasses embodying my invention. Fig. 2 is a similar view showing the guards, lens-clamps, and lenses moved outward to the full extent of their movement. Fig. 3 is a vertical transverse section through the center of the bridge. Fig. 4 is a longitudinal section through one of the studs, showing the arrangement of the sliding guard and post.

In the drawings, 2 2 represent the lenses, which are of any suitable form or structure.

3 represents the bridge. I prefer for this purpose to use a rigid bridge, which may be of any preferred form or structure.

The nose-guards or grips 4 4 are of any desired form or structure, and they are supported at the ends of the bridge, so as to be capable of sliding toward or from each other. I secure the nose-guards or grips rigidly to the lens-clamps, so that said guards and clamps slide together.

As here shown, at each end of the bridge is a hollow stud 5, through which passes a combined post and lens-clamp 6. This stud is provided, preferably upon its under side, with a slot 7, preventing any rotary movement of the lenses, and the guard 4 is secured to the end of the post 6 by means of a suitable screw 8. The arm of the guard 4 passes through the slot 7 and is guided by said slot in its sliding movement.

A suitable spring 9 is arranged within the stud 5, bearing at one end against the inturned wall of the stud and at the other against the guard 4. This spring, it will be seen, surrounds the sliding post 6 and tends to move the guard and lens-clamp inward to the inner limit of their movement or until the shoulder formed by the outer part of the lens-clamp is brought against the end of the stud 5.

It will be seen that with this structure the guards and lens-clamps are pressed directly toward each other on a horizontal line, but that the guards are held with a yielding pressure against the sides of the nose of the wearer. It will also be noted that the lens-clamps move with the guards.

In order to put the glasses in position, the edges of the lenses are grasped and the lenses are drawn away from each other or pulled apart on a horizontal line, thereby causing the posts to slide in the hollow studs and separating the guards sufficiently to permit the glasses to be properly put in position upon the nose of the wearer. When the lenses are released, the springs press the guards against the sides of the nose of the wearer with sufficient pressure to retain the glasses in place.

The details of the structure may be varied in many particulars without departing from my invention.

I claim as my invention—

1. The combination, with a rigid bridge provided at its ends with horizontal guides in line with each other, of lens-clamps supported and arranged to slide on said guides, lenses supported by said clamps with their horizontal axes in the same plane with said guides and nose-guards carried by said clamps.

2. The combination, with a curved rigid bridge-piece adapted to fit the nose of the wearer, and provided at its ends with horizontal guides in line with each other, of lens-clamps supported and arranged to slide on said guides, nose-guards carried by said clamps, and springs tending to move said lens-clamps and nose-guards toward each other.

3. The combination, with a suitable bridge-piece provided at its ends with guides arranged in line with each other, of lens-clamps mounted and adapted to slide on said guides, lenses supported by said clamps with their horizontal axes in the same horizontal plane with said guides, nose-guards carried by said lens-clamps, and springs tending to

move said lens-clamps and nose-guards toward each other.

4. The combination, with a rigid bridge provided at its ends with the hollow studs, sliding posts arranged in said studs, springs engaging said posts, and lens-clamps and nose-guards supported by and moving with said posts.

5. The combination, with the rigid bridge provided at its ends with the studs having horizontal openings therethrough in line with each other, sliding posts arranged in said studs, lens-clamps and nose-guards supported upon said posts, and springs arranged to move said lens-clamps and guards toward each other.

6. The combination, with the bridge provided at its ends with the studs having openings in line with each other, posts arranged in said openings and adapted to slide therein, lens-clamps secured to said posts. nose-guards also secured to said posts, and suitable springs arranged to engage said posts and to move said guards toward each other, substantially as described.

7. The combination, with the bridge, of the hollow stud 5 at each end thereof, the sliding post 6 arranged in said stud with a lens-clamp secured to one end of the post and a nose-guard to the other, and a spring engaging said post and arranged to move said guard inward, substantially as described.

8. The combination, with the bridge provided at each end with a hollow stud 5 having a longitudinal slot 7, of a combined post and lens-clamp 6 arranged in said hollow stud, a nose-guard 4 secured to said post, and a spring 9 arranged within said stud and engaging said guard, for the purpose set forth.

In witness whereof I have hereunto set my hand this 9th day of March, 1906.

JOSEPH D. LEWIS.

Witnesses:
CLARA G. HANSON,
A. C. PAUL.