No. 648,585. Patented May 1, 1900.

J. T. BRAYTON.

EYEGLASS GUARD AND FRAME.

(Application filed Nov. 9, 1898.)

(No Model.)

Fig. 1.

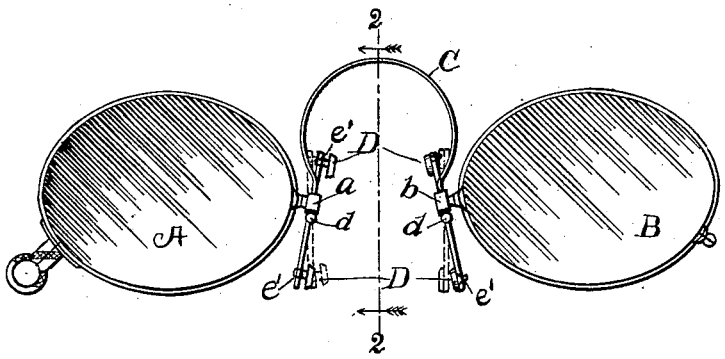


Fig. 2.

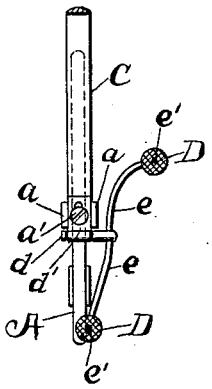
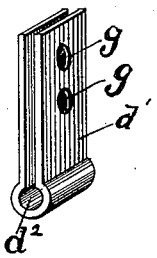


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES T. BRAYTON, OF CHICAGO, ILLINOIS.

EYEGLASS GUARD AND FRAME.

SPECIFICATION forming part of Letters Patent No. 648,585, dated May 1, 1900.

Application filed November 9, 1896. Serial No. 611,488. (No model.)

To all whom it may concern:

Be it known that I, JAMES T. BRAYTON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Eyeglass Guards and Frames, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 shows my said new eyeglass-guards in front view with eyeglasses. Fig. 2 shows a transverse section of Fig 1 on the plane 2 2 of Fig. 1 looking in the direction of the arrows. Fig. 3 shows the clasp *d'* in perspective and on an enlarged scale.

Like letters of reference denote like parts.

The object of my invention is to improve the construction and operation of guards for eyeglasses, so that they may have a firmer hold and also adapt themselves more readily to the varying forms of noses, and also to have the guard so constructed that it may readily be shaped to any desired special form.

To attain said desirable ends, I construct my said guards in substantially the following manner, namely: I place a revoluble shaft *d* at right angles substantially to the plane of the glasses and hold it at one end in bearings d^2 at the folding-joint of a folded vertically-adjustable clasp or strap *d'*, held between the box sides *a* of an eyeglass-post *b*, and let said shaft project a suitable distance beyond the lens-plane. To the free end of said shaft are attached oppositely-projecting arms *e* of as great length as circumstances will permit for their best results. Said arms are preferably round in cross-section to allow of convenient shaping into desirable form and position. To the ends of said arms are attached disks or pads D, loose-jointed on pins *e'* to permit said pads to touch all the surface they cover on account of said universal joints. Said clasp *d'* is held on the posts and between the box sides *a* by means of a screw *a'*, which also passes through the ends of the eyeglass-spring C, whereby the parts A B are connected. The shaft *d* is adjustable by means of the oblong holes *g*, of which there may be several in the clasp *d'*, whereby said guards become adjustable to the focal axis of the glasses. Owing to the great distance between said pads there is obtained great leverage at their hold, and through said universal adjustment of said pads the glasses are held firmly with far less spring-pressure, and therefore less injury to the wearer from said guards.

The pressure required for the ordinarily-used guard is so great that it becomes exceedingly uncomfortable, especially in hot weather, and such spots of contact very frequently grow into sores, and thus prevent the use of such glasses entirely. My improvement herein set forth greatly reduces said troubles and inconveniences and holds the glasses far more steadily to their desired position than the old forms can do.

What I claim is—

1. In eyeglasses, the combination with a rotatable shaft having opposed arms carrying pads at their outer ends, of a folded strap forming a shaft-bearing at the folding-place of said strap, for said shaft, transverse to the lens-plane, substantially as specified.

2. In eyeglasses, the combination with eyeglass-posts having box sides, of a doubled strap longitudinally adjustable in said box-posts, a shaft-bearing in said strap, transverse to the lens-plane, transverse arms secured to said shaft and pads secured to the ends of said arms having universal joints for pressing the foot of said pads evenly on their supports, substantially as specified.

3. In eyeglasses, the combination with a rotatable shaft having opposed arms carrying pads at their outer ends, of a folded strap forming a bearing for said shaft, transverse to the lens-plane and means for adjusting said strap in the lens-plane, substantially as specified.

4. In eyeglasses, the combination with rotatable shafts having opposed arms carrying pads at their outer ends, said pads on loose-jointed bearings, the axes of said shafts parallel to the lens-axes, of folded straps forming bearings for said shafts, means to vary the relative adjustment of said lens-axes and shaft-axes, substantially as specified.

5. In eyeglasses, the combination with eyeglass-posts, of folded straps forming shaft-bearings at their folding-places, eyeglass-springs held by said straps, means to secure said folded straps and eyeglass-springs together, and means to hold them, non-rotatably, by said securing mechanism, substantially as specified.

JAMES T. BRAYTON.

Witnesses:
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