No. 756,488. PATENTED APR. 5, 1904.

F. X. GARTLAND.

EYEGLASSES.

APPLICATION FILED JAN. 7, 1903.

NO MODEL.

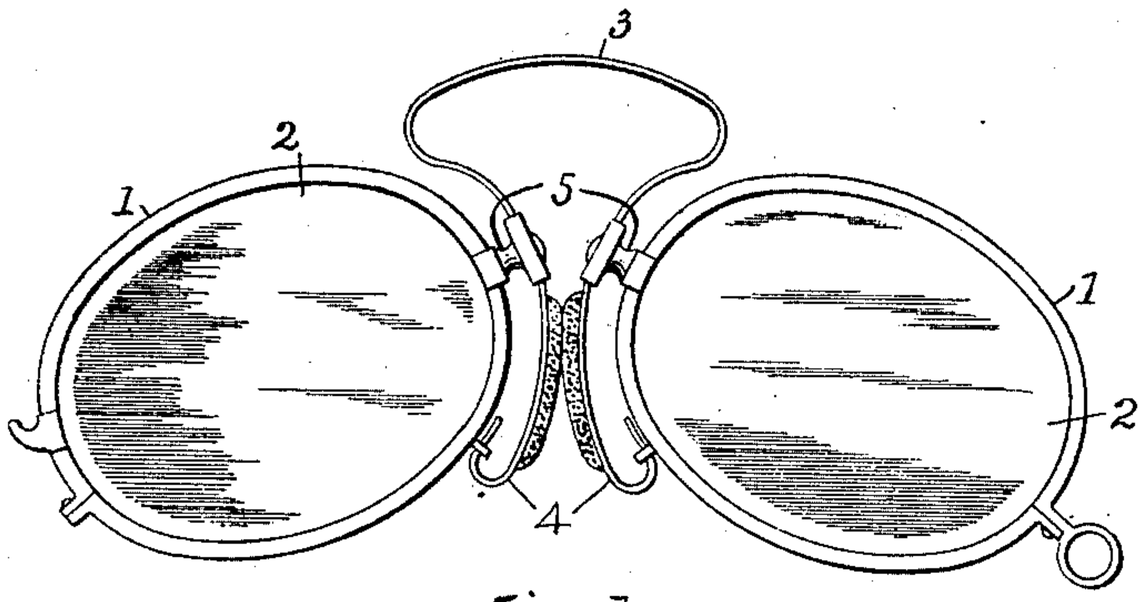

Fig. 1

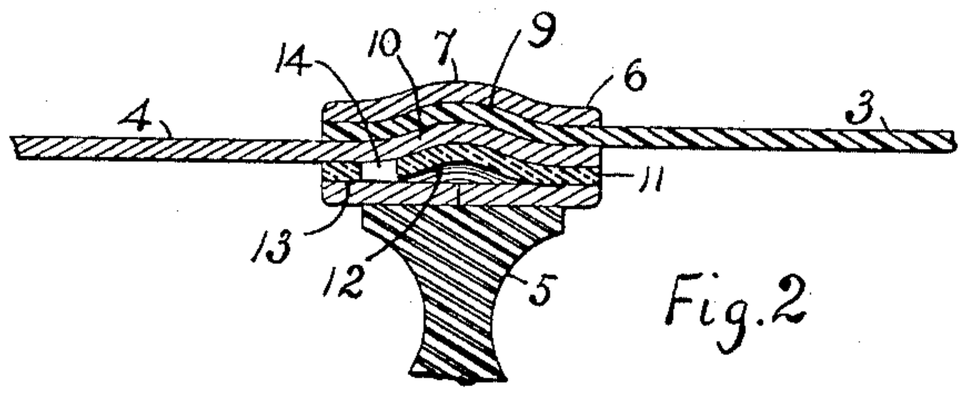

Fig. 2

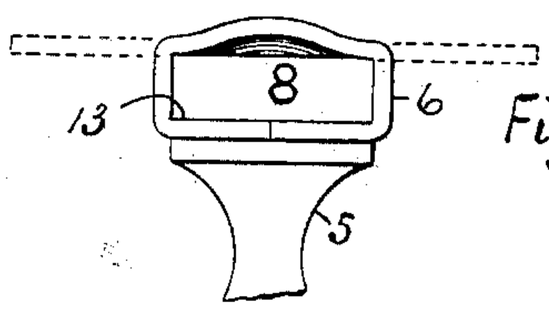

Fig. 3

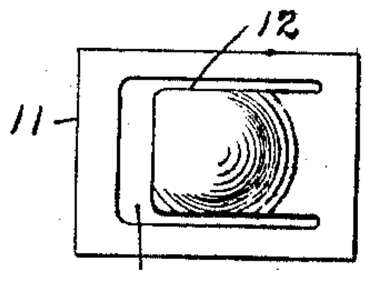

Fig. 4

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Witnesses
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No. 756,488. Patented April 5, 1904.

UNITED STATES PATENT OFFICE.

FRANCIS X. GARTLAND, OF PHILADELPHIA, PENNSYLVANIA.

EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 756,488, dated April 5, 1904.

Application filed January 7, 1903. Serial No. 138,174. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS X. GARTLAND, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Eyeglasses, of which the following is a specification.

This invention relates to eyeglasses, and has for its object a means for securing the springs and guards to the frames without the use of screws or pins and with means which is automatically spring-locked into position to secure the other removable parts against accidental displacement.

The features herein shown are improvements on my application filed October 4, 1902, Serial No. 125,863, and allowed December 31, 1902, wherein the fastening means was forced to place and held by frictional contact and pressure.

The invention is illustrated in the accompanying drawings, wherein like parts are designated by like figures of reference, and wherein—

Figure 1 is a view of a pair of eyeglasses such as the invention is applicable to. Fig. 2 is an enlarged sectional view of a post to which a spring and guard are secured. Fig. 3 is an elevation view of a post from the open end of its receptacle, showing the plate as bent and formed in full lines and as formed with the spherical swell and straight when so formed as shown in dotted lines and before being attached to the post. Fig. 4 is a plan of the spring-locking plate.

The eyeglasses have the usual frames 1 and lenses 2, with spring 3 and guards 4, secured to posts 5. At the top of each post is a plate 6, which is formed with a circular or spherical swell 7 at its center, the plate thereafter being bent, as seen in Fig. 3, and united by soldering or other preferable means to the post's top, where it forms an opened receptacle 8 for the insertion and securing of spring 3 and guard 4. Spring 3 has at each end a spherical swell 9, formed to closely fit under spherical swell 7 of plate 6. Guards 4 have at each end a swell 10, formed to closely fit under swell 9 of spring 3. Locking-plate 11 has a spring swell 12, formed to press upwardly and enter swell 10 of a guard 4 when the plate is forced between the guard and the bottom 13 of receptacle 8. By the means described the spring and guards are securely locked to the posts in manner to prevent their separation through accident or while in use, at the same time affording an easy means for their withdrawal when necessary, at which time the plate 11 being forced endwise from either direction its spring 12 will straighten into pocket 14 free from under swell 10 and permit the removal of the spring and guards. The construction is neat and delicate, without objectionable projections, as befits the place where it is used, and cheaply made. Although the swells have been described as circular or spherical, they are not necessarily of such form, it being only essential that each part be so formed as to nest under another to form a means to prevent their separation longitudinally. In the exaggerated drawings it might seem necessary, owing to the thickness of the parts there shown, to have separate dies to form each part, but as the parts are in practice less than .016 inch in thickness they may readily be formed by one tool or set of dies either separately or in collective sets.

As the longitudinal joining of separable parts as described is adapted to other uses than for eyeglasses, I do not wish to be understood as confining the invention or limiting its use to such purpose.

I claim—

1. In eyeglasses, frames and lenses therein, posts on the frames having receptacles at their tops formed of top, side, and bottom walls, and open ends, and the top wall having at its center an outward swell which is of greater height than the sides and open ends of the receptacle.

2. In eyeglasses, frames and posts thereto attached, an open-ended receptacle on each post, a spherical swell in the top of the receptacle, a spring having spherical swells at its ends which are adapted to enter under the swells in the receptacles, guards having a swell at one end which is adapted to enter under the swell of the spring, and means to force the aforesaid swells to each other and confine them within the receptacle.

3. In eyeglasses, frames having posts with receptacles for a spring and guards, the top wall of the receptacle having an outward spherical swell, a spring and guards having swells which are adapted to interlock with each other and with the receptacle swell, and locking-plates having springs with spherical swells adapted to enter the receptacles under the swells aforesaid and force all of the aforesaid swells to each other for confinement of the parts aforesaid within the receptacle.

4. In eyeglasses, frames having posts with receptacles for a spring and guards, the top wall of the receptacle having an outward spherical bulge, a spring and guards having spherical bulges which are adapted to interlock with each other and with the receptacle bulge, and a locking-plate adapted to enter the receptacle and having spherically-bulged resilient means whereby the bulges aforesaid are forced to each other for confinement of the parts aforesaid within the receptacle.

5. In eyeglasses, posts joined to the frames at one end, and at their opposite or outer end to a receptacle formed by a plate having an outward spherical swell or bulge at its center which forms the top wall, the side and bottom walls being formed by rectangular bends which leave open ends for the insertion of the spring and guards, the bottom of the receptacle then being secured to the post's top.

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

FRANCIS X. GARTLAND.

Witnesses:
LEWIS H. REDNER,
R. C. WRIGHT.