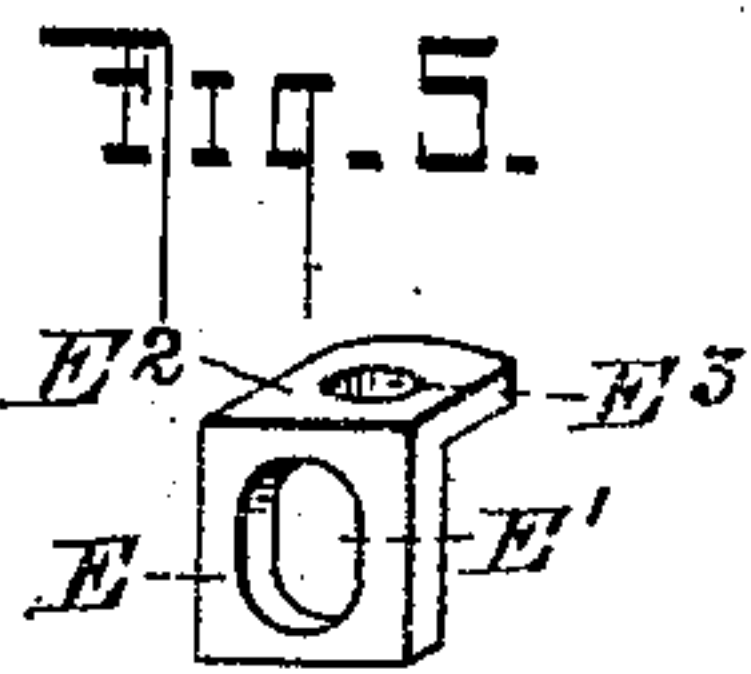
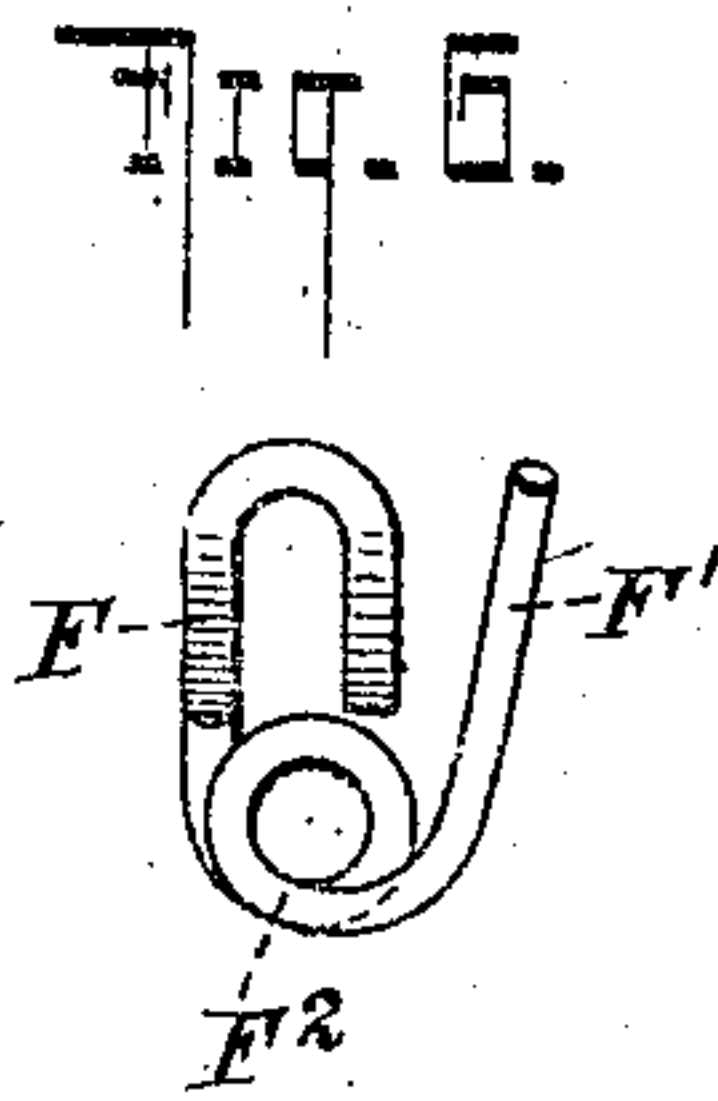
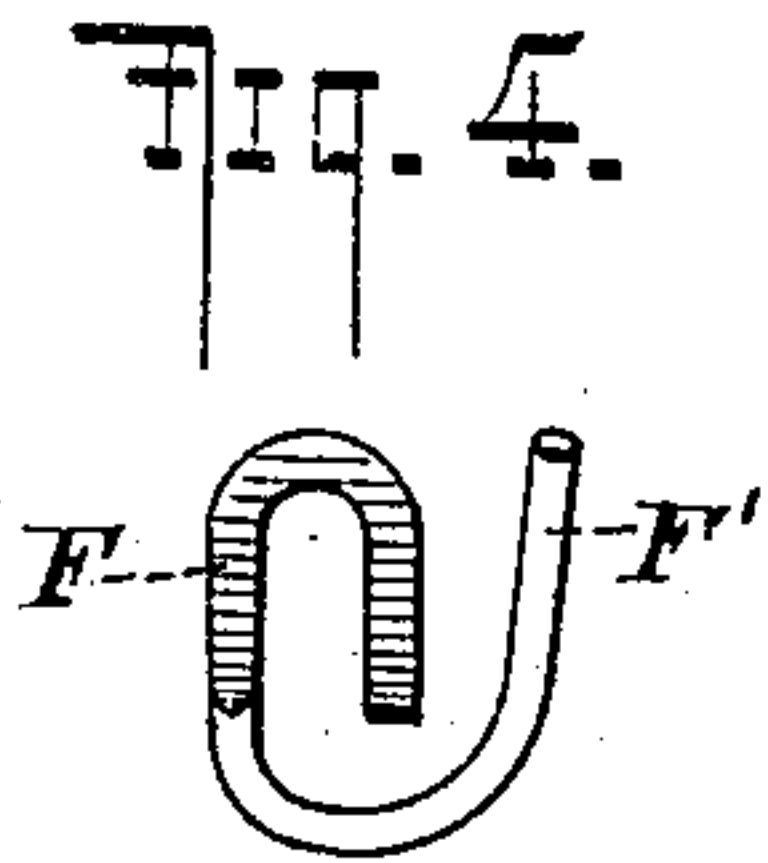
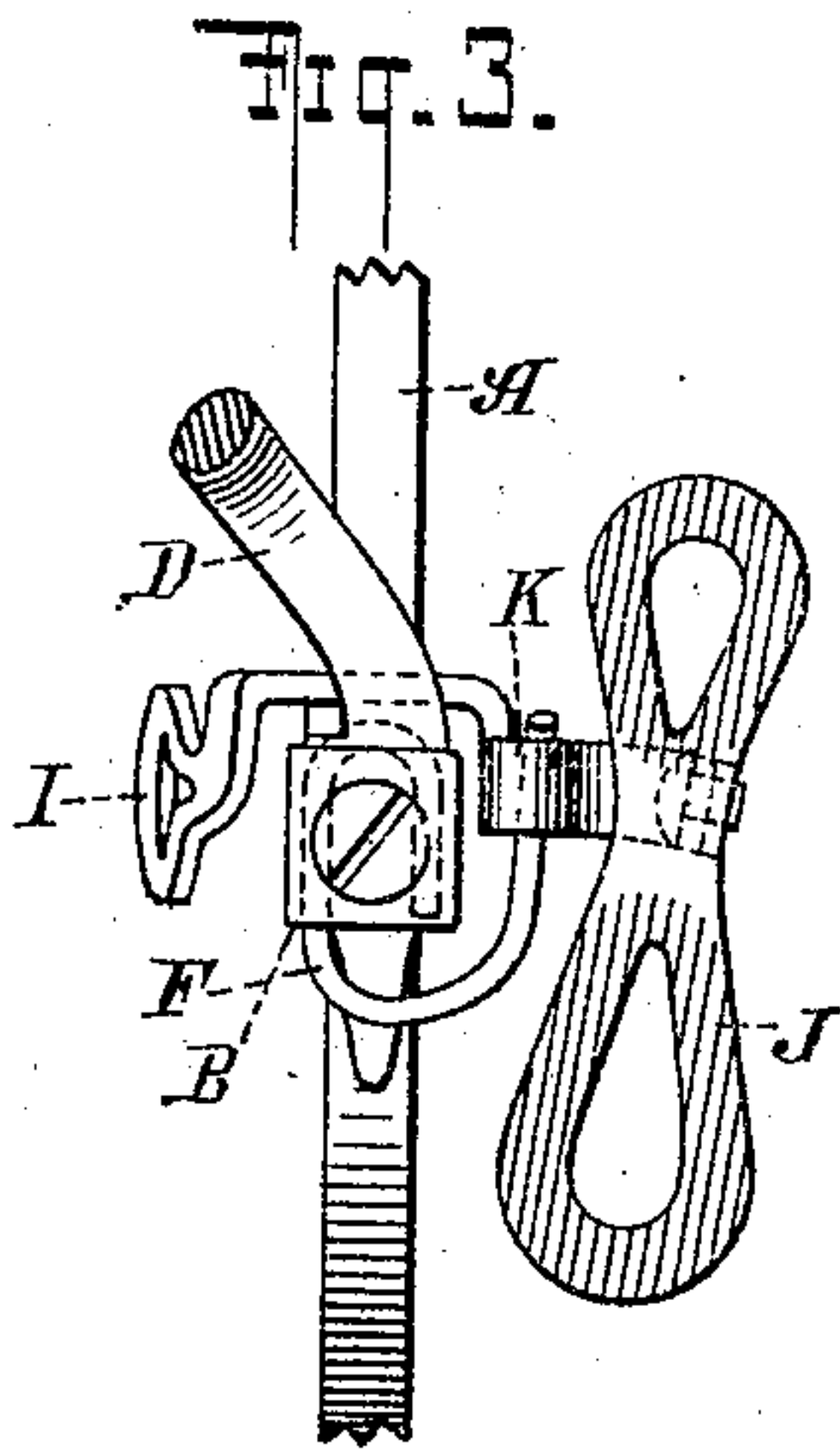
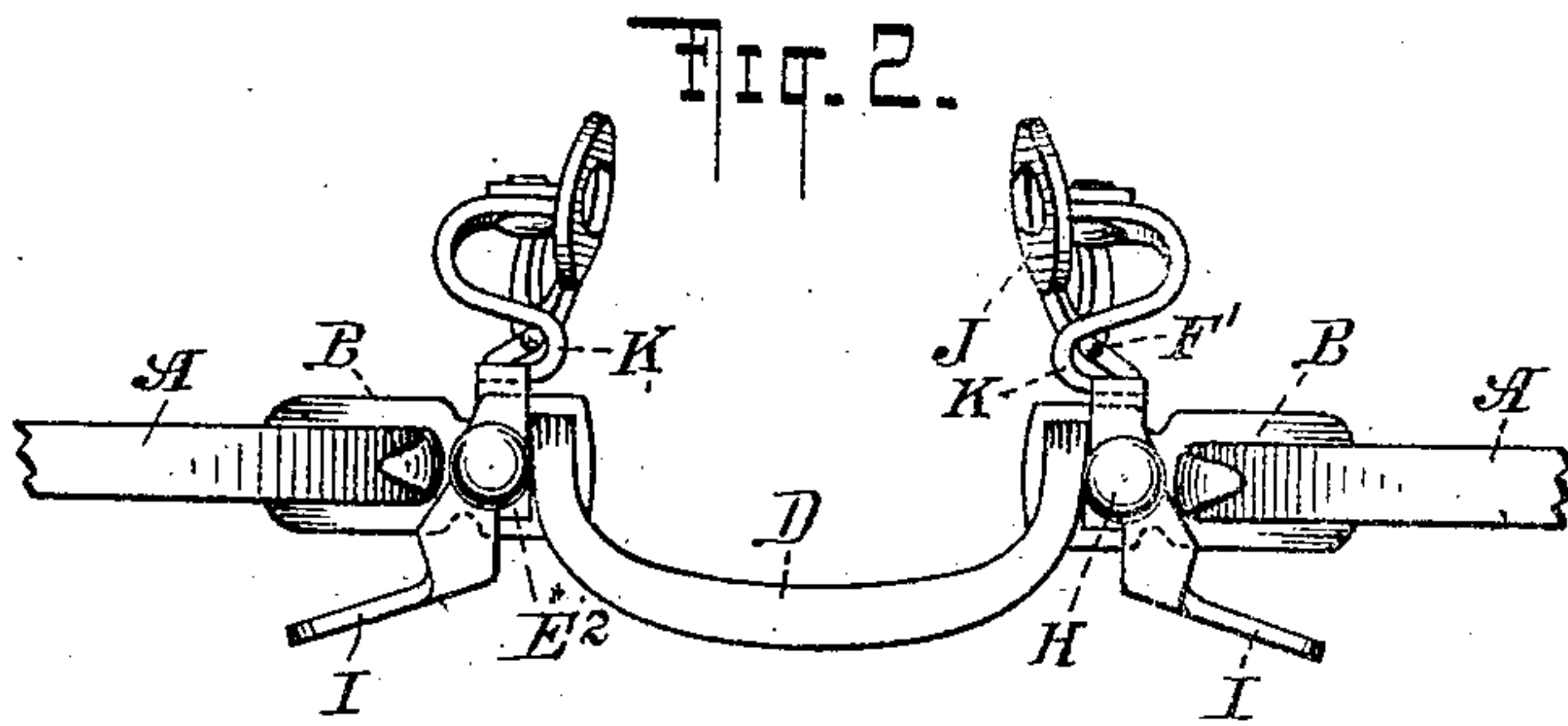
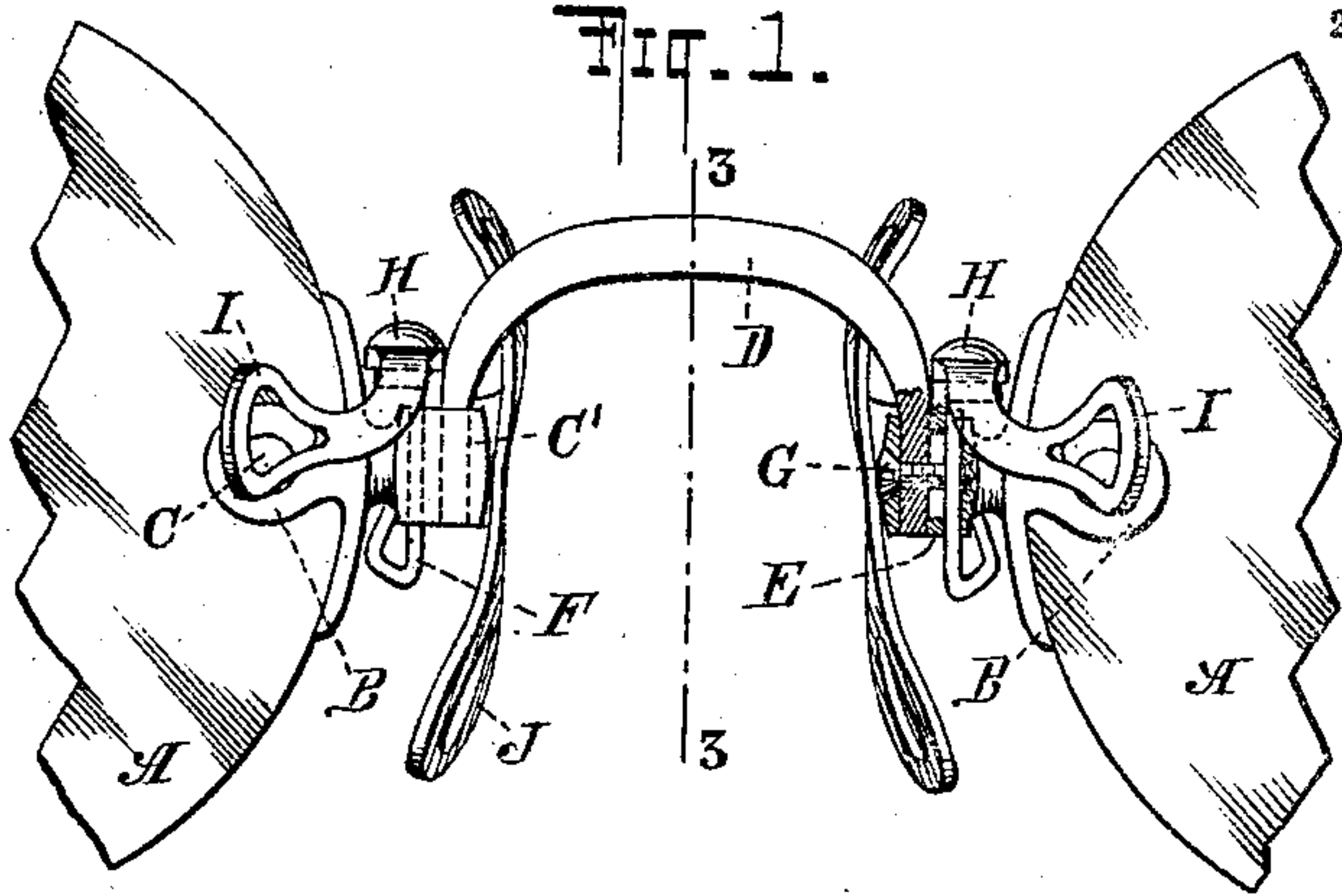


E. C. BERNHEIM.
FINGER PIECE EYEGLASSES.
APPLICATION FILED MAY 21, 1909.

969,447.

Patented Sept. 6, 1910.

2 SHEETS—SHEET 1.



WITNESSES

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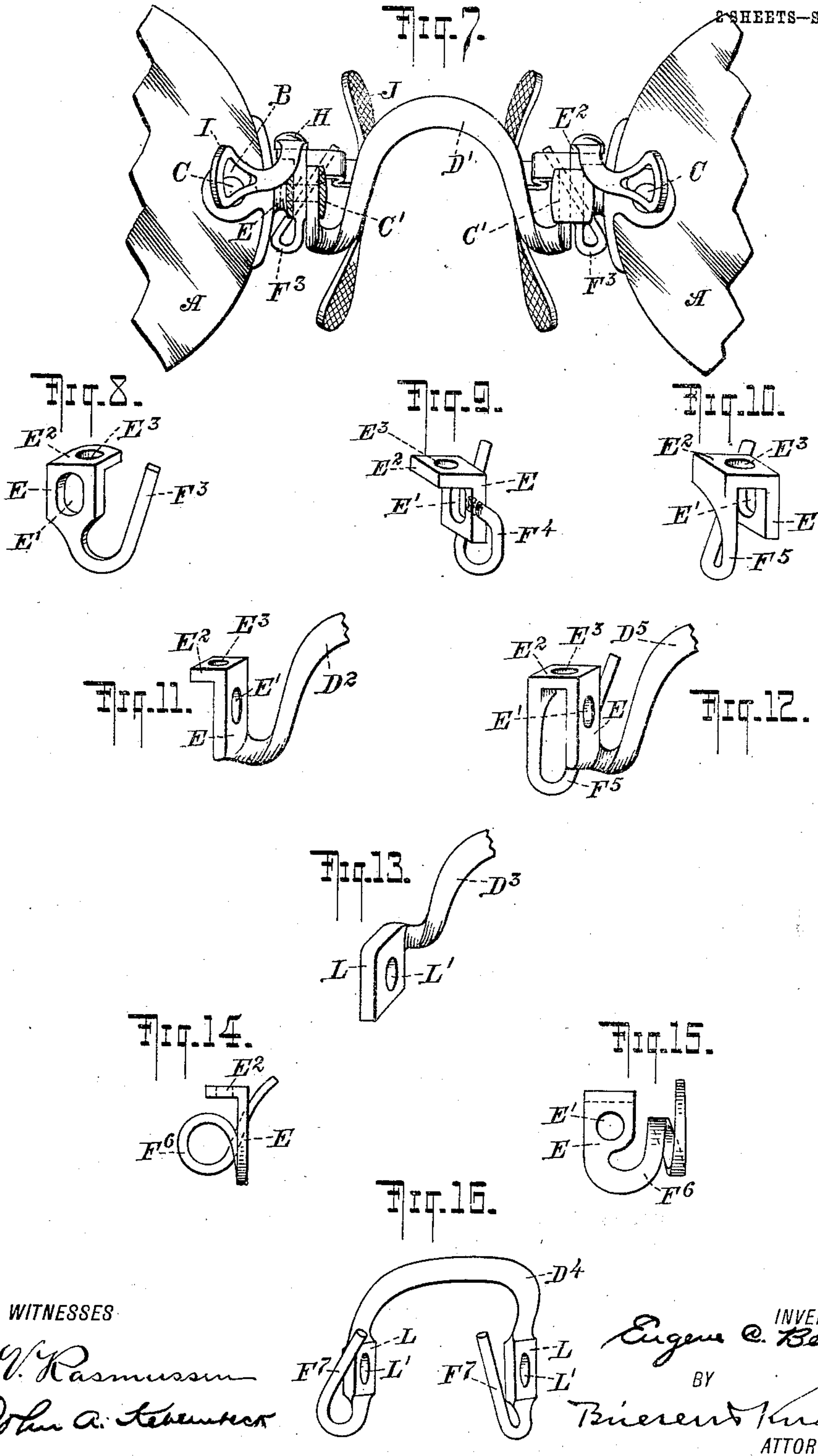
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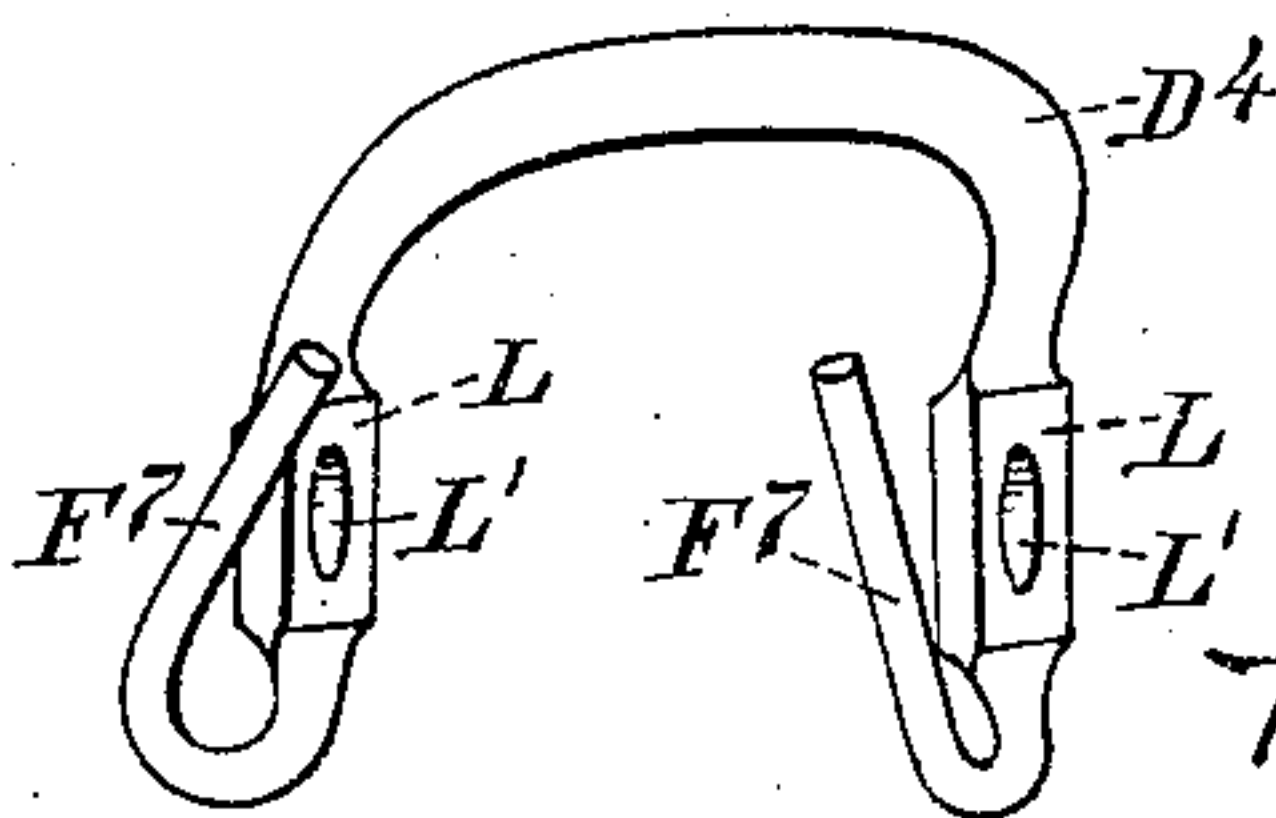
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2 SHEETS—SHEET 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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FINGER-PIECE EYEGLASSES.

969,447.

Specification of Letters Patent.

Patented Sept. 6, 1910.

Application filed May 21, 1909. Serial No. 497,376.

To all whom it may concern:

Be it known that I, EUGENE C. BERNHEIM, a citizen of the United States, and resident of Southbridge, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Finger-Piece Eyeglasses, of which the following is a specification.

My invention relates to eye-glasses of the kind in which pivoted, spring-pressed nose-clamps are provided together with finger-pieces for operating these clamps.

The object of my invention is to provide a structure of this character which will enable adjustments to be made readily and which will have the springs located advantageously so as not to weaken the structure at the pivots of the nose-guards.

In the accompanying drawings I have illustrated various constructions embodying my present invention, Figure 1 being a front elevation of one form of my invention with parts in section; Fig. 2 is a plan view thereof; Fig. 3 is a vertical section substantially on line 3—3 of Fig. 1; Fig. 4 is a detail view of the spring shown in the construction of Figs. 2 and 3; Fig. 5 is a perspective view of the so-called post used in this construction; Fig. 6 shows another form of spring adapted for use in connection with this construction; Fig. 7 is a front elevation of another form of my invention; Fig. 8 illustrates in perspective the combined post and spring used in this form of my invention; Figs. 9, 10, 14 and 15 illustrate in perspective other forms of combined clips and springs; Figs. 11 and 13 illustrate two forms of my invention, in which the post is made in one with the bridge and Figs. 12 and 16 are similar views of a construction in which bridge, post and spring are made integral.

A indicates the lenses which are held by means of ears B and screws C, or in any other approved manner. The ears B are connected rigidly or formed integral with boxes C' which, in the form illustrated by Figs. 1, 2, 3 and 7 are in the nature of sleeves open both at the top and at the bottom. Into these sleeves are fitted the ends of the bridge D, the vertical members E of the posts and the stationary ends of the springs F, which ends are of an inverted U-shape, as shown in Figs. 3 and 4. These

parts are arranged within the box C in the order named as shown best at the right-hand portion of Fig. 1 and are secured therein by means of a screw G. The aperture E' in the vertical post portion E is preferably elongated vertically so that when the screw G has been loosened the post may be readily adjusted up or down. The horizontal member E² of the post is provided with an aperture E³ to receive the vertical pivot H of a lever, the forward end of which, I, forms a finger-piece, while the rear end, J, constitutes the nose clamp. The movable end F' of the spring engages a suitable bearing K of the lever and has a tendency to press the clamp J against the nose.

As illustrated in Fig. 6 the spring F—F' may be provided with an intermediate coil F². In each case I prefer to have the end F' of the spring in loose engagement with the bearing portion K so that when said bearing portion is adjusted vertically together with the post E—E², a proper engagement of the spring will be preserved since the bearing portion will simply slide along the spring. However, it is not necessary that the spring should have a sliding engagement with the bearing portion during adjustment since the U-shaped configuration of the attached spring end allows it to be readily adjusted up or down within the box C so that, if desired, the lever and the spring may be adjusted vertically to the same extent.

The construction shown in Figs. 7 and 8 differs from the one first described by a somewhat different shape of the bridge D' and by the fact that the ends of the bridge extend upward into the box C' instead of downward, and second, by making the post E, E² of one piece with the spring F³, which, in this particular construction extends from the lower end of the vertical post member E.

Instead of making the spring of one piece with the post, it may be made separate, yet connected rigidly with the post; thus Fig. 9 shows one end of the spring F⁴ screw-threaded to fit into a corresponding aperture at the forward edge of the vertical post member E. Fig. 10 shows a further way of combining the spring with the post; in this case the spring F⁵ extends first down-

ward from the horizontal member of the post at its forward portion and then upward, rearward and inward.

In Figs. 14 and 15 I have shown a construction in which the spring F^6 is made integral with the vertical member of the post and extends rearward from the lower edge thereof, is then formed with a coil whose axis is horizontal or approximately so and finally has its free end directed upward.

In Figs. 13 and 16 I have shown a plate L (perforated at L') made integral with, or rigidly secured to the bridge D^3 , D^4 .

In Fig. 11 a complete post is shown having a horizontal and a vertical member the latter connected with the bridge D^2 ; in Figs. 13 and 16 the bridge is connected only with a vertical member or plate L and in these two constructions a separate post of the character herein described will have to be provided for carrying the pivot of the nose clamps. In Fig. 16 the vertical member L integral with the bridge D^4 is also integral with the spring F^7 , which is arranged in substantially the same manner as in Fig. 8.

Fig. 12 shows that I may combine in one structure the bridge D^5 , the post E , E^2 and the spring F^5 , the construction being practically the same as in Fig. 10 except that the bridge D^5 is connected directly with the lower end of the vertical post member.

I claim as my invention:

1. The combination of the lens, the box connected therewith, the post carried by the box and adjustable vertically, the nose clamp pivoted to the post, and the spring having one end held at the box and the other end in loose engagement with a bearing portion of the clamp, so that the clamp, during its vertical adjustment, will slide along the spring.

2. The combination of the lens, the box connected therewith, the post carried by the

box, the nose clamp pivoted to the post, and the vertically adjustable spring, independent of the pivot, having one end stationary and the other in engagement with the nose clamp.

3. The combination of the lenses, the boxes connected therewith, the bridge connecting the two boxes, independently adjustable posts carried by said boxes, nose clamps pivoted to said posts, and vertically adjustable springs engaging said nose clamps.

4. The combination of the lenses, the boxes connected therewith, the bridge connecting the two boxes, independent vertically adjustable posts carried by said boxes, nose clamps pivoted to said posts, and springs attached to the boxes and having a sliding engagement with the nose clamps as the latter are adjusted.

5. The combination of the lens, the box connected therewith and formed as a sleeve the bridge having one end within said sleeve, the post having a vertical member within the sleeve and a horizontal member exteriorly thereof, the nose clamp pivoted to the horizontal post member, and the spring having one end secured within the sleeve and the other in engagement with the nose clamp.

6. The combination of the lens, the box connected therewith, the bridge joined to the box, the pivoted nose clamp supported above the box and vertically adjustable relatively thereto, and the nose clamp actuating spring supported above the box and vertically adjustable relatively thereto independently of the nose clamp.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EUGENE C. BERNHEIM.

Witnesses:

J. C. WELLS,

R. E. THOMPSON.