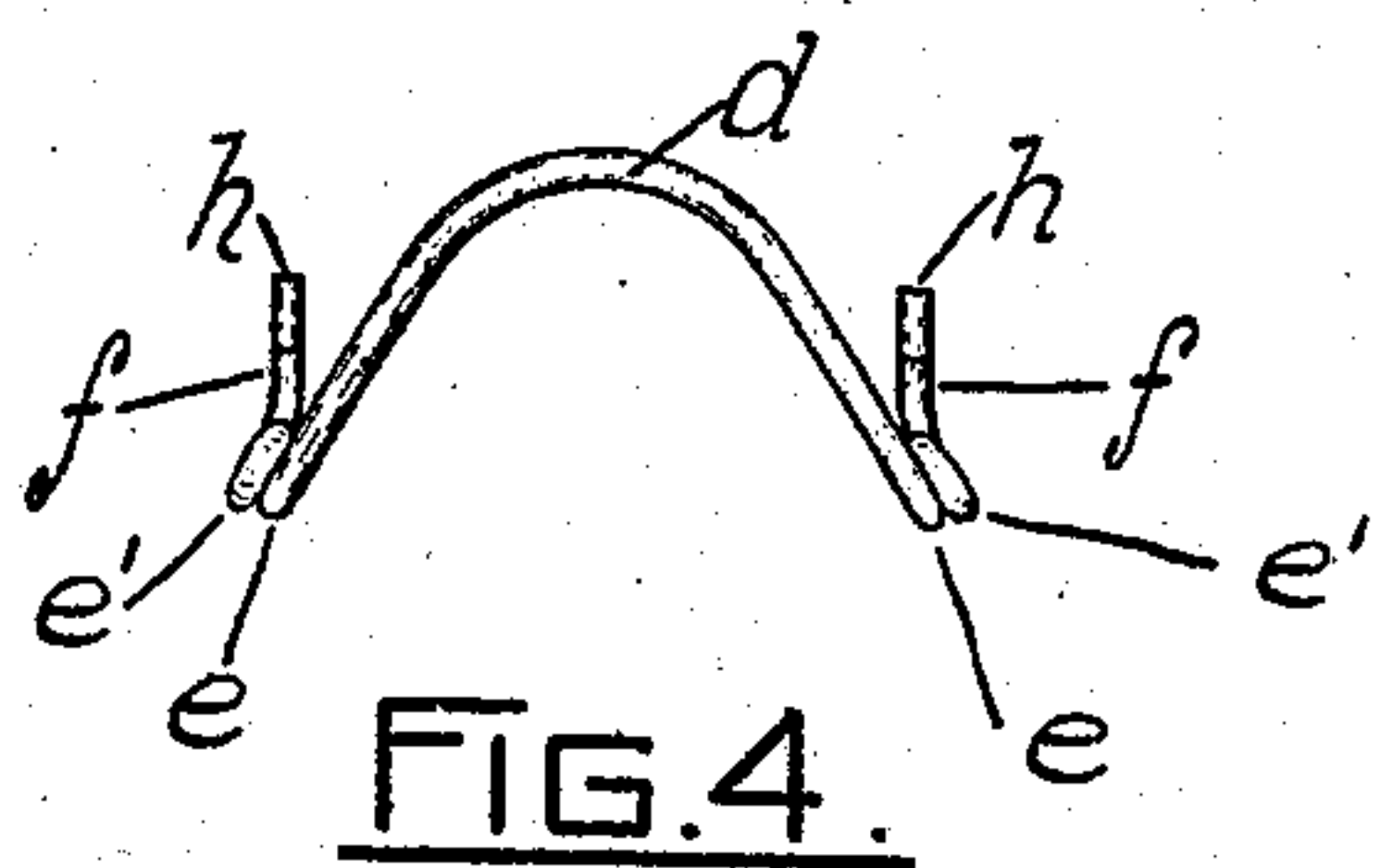
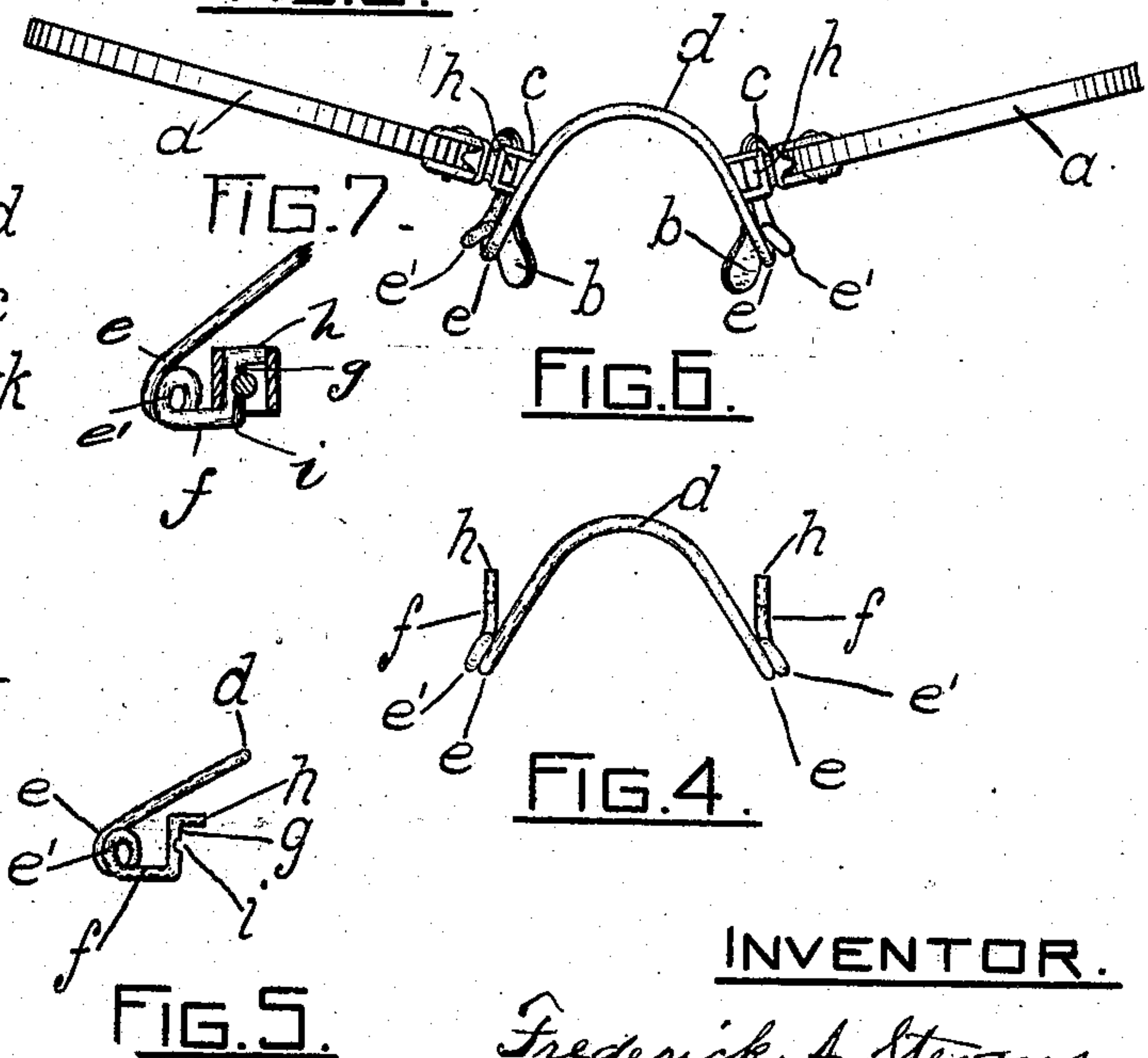
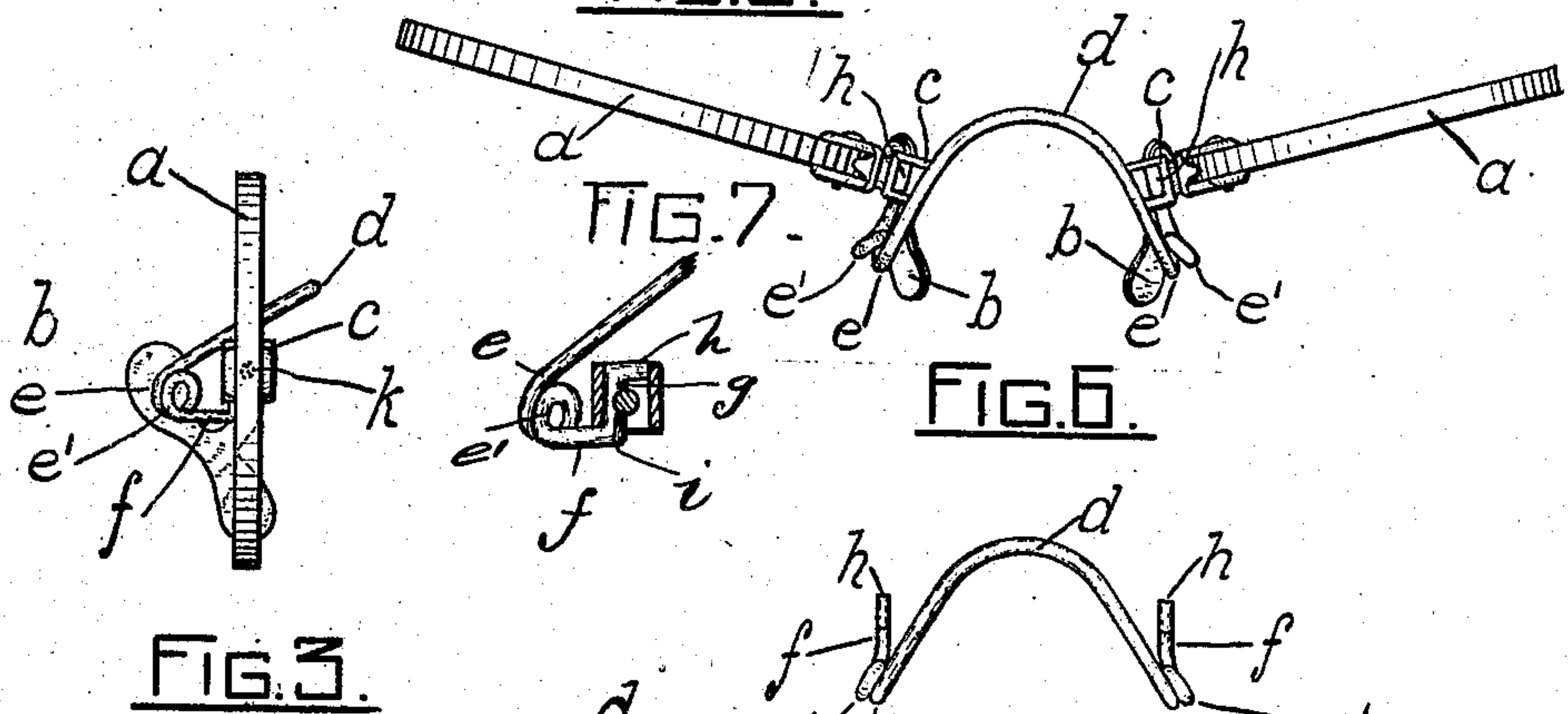
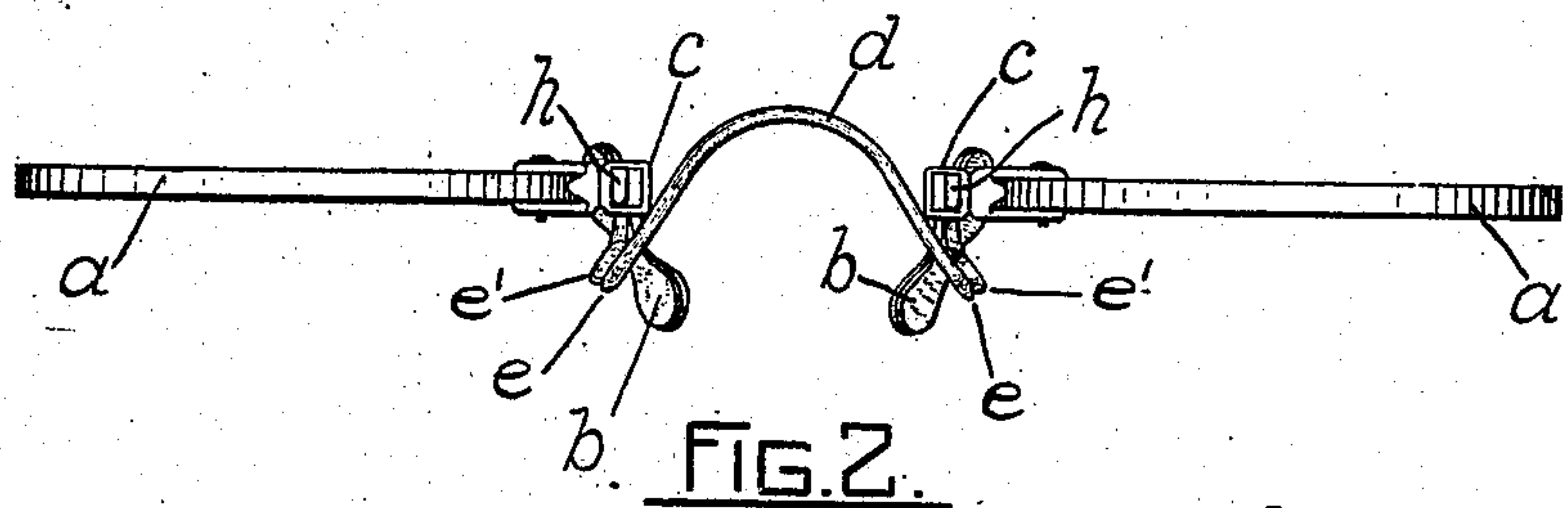
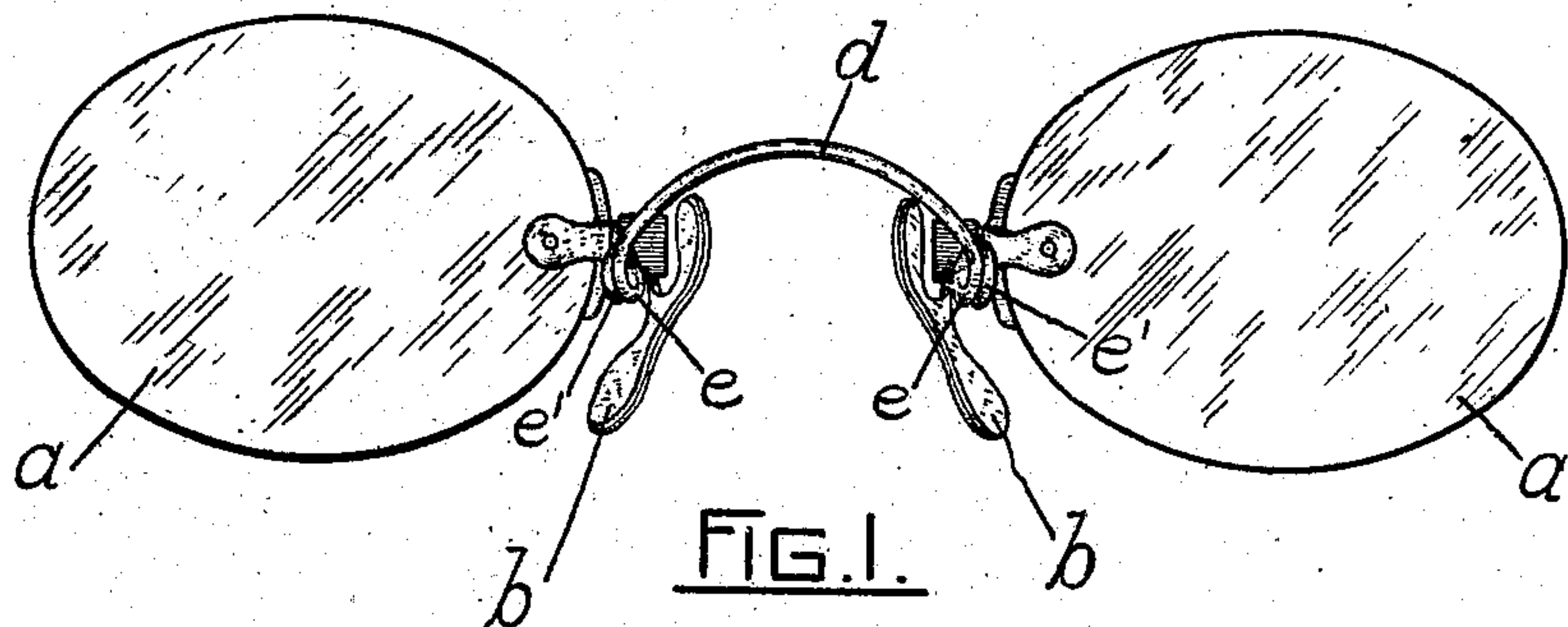


No. 885,198.

PATENTED APR. 21, 1908.

F. A. STEVENS.
EYEGLASSES.

APPLICATION FILED MAY 1, 1907.



WITNESSES.

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EYEGLASSES.

No. 885,198.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed May 1, 1907. Serial No. 371,297.

To all whom it may concern:

Be it known that I, FREDERICK A. STEVENS, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Eyeglasses, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to certain new and useful improvements in the bridge springs of eyeglasses, and has for its object to simplify and render more durable and efficient in operation this class of devices; but more particularly to provide a spring structure which will readily permit the necessary action of the lenses without disturbing the clinging functions of the spring.

The novelty resides in the peculiarities of construction and adaptation of the spring parts as more fully hereinafter described, shown in the drawings, and then particularly defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, in which—

Figures 1 and 2 are a rear elevation and plan respectively of a pair of eyeglasses embodying my invention. Fig. 3, an end view of the same. Figs. 4 and 5, plan, and end elevations respectively of the spring member, and Fig. 6, a plan with the coils of the spring members distended. Fig. 7 is a detail partly in section showing the end of the bridge spring within its box.

Like letters of reference indicate like parts throughout the views.

In the drawings, *a* are the lenses; *b*, the guards; and *c*, the boxes of a pair of eyeglasses. The bridge spring comprises an arched central or bridge portion, *d*, downwardly inclined from above the boxes to a point in the rear of the latter, and expanding towards the rear. The ends of the bridge portion are bent to form vertical spirals each of whose coils, *e*, *e'*, are side by side and are inclined with relation to a line through the bridge parallel to the boxes, as seen in Figs. 2 and 4. The ends of the bridge beyond the ends of the spirals extend forwardly forming horizontal supporting arms, *f*, with vertical portions, *g*, upon their ends, terminating in fingers, *h*, at right angles to the vertical portions. The latter are provided with cavities, *i*.

In assembling the spring with the other parts of the eyeglasses, the arms, *f*, abut against the bottoms of the boxes, *c*, and the

vertical portions, *g*, pass upward along the sides of the boxes against which they are held, by the attaching screws, *k*, which register in the cavities, *i*. The free ends of the fingers, *h*, abut against the inner sides of the boxes and thus assist in maintaining the spring in rigid connection with the boxes, and prevent any tendency toward displacement, the arms thus having bearings in opposite directions upon opposite sides of said attaching screws.

The direction of the coils, *e*, *e'*, is slightly diagonally outward from rear to front. In Fig. 6, the parts are shown in the position taken when the outer ends of the lenses are forced forwardly. The coils permit of universal movement, and as they contact with each other I provide maximum resistance to strain at the point where needed and thus lessen the liability of breakage.

What I claim is,

1. The combination with the lenses and boxes of eyeglasses, of a bridge spring comprising an arched portion inclined downwardly from above said boxes to a point in the rear thereof and end portions bent to form vertical spirals with their coils side by side, the ends of said spirals extending forwardly and forming horizontal supporting arms with vertical portions and right angled terminal fingers, said arms abutting against the bottoms of the boxes and the free ends of the fingers abutting against the inner sides of said boxes.

2. The combination with the lenses and boxes of eyeglasses, of a bridge spring comprising an arched portion inclined downwardly from above said boxes to a point in the rear thereof and end portions bent to form vertical spirals with their coils side by side, the ends of said spirals extending forwardly and forming horizontal supporting arms with vertical portions and right angled terminal fingers, said arms abutting against the bottoms of the boxes and the free ends of the fingers abutting against the inner sides of said boxes, said vertical portions being provided with cavities, and attaching screws engaging in said cavities and held in said boxes.

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

FREDERICK A. STEVENS.

Witnesses:

HORATIO E. BELLOWS,
WALTER E. GOODWIN.