(No Model.)

F. W. EMONS & C. B. BISHOP.

EYEGLASSES.

No. 436,971. Patented Sept. 23, 1890.

FIG. 1.

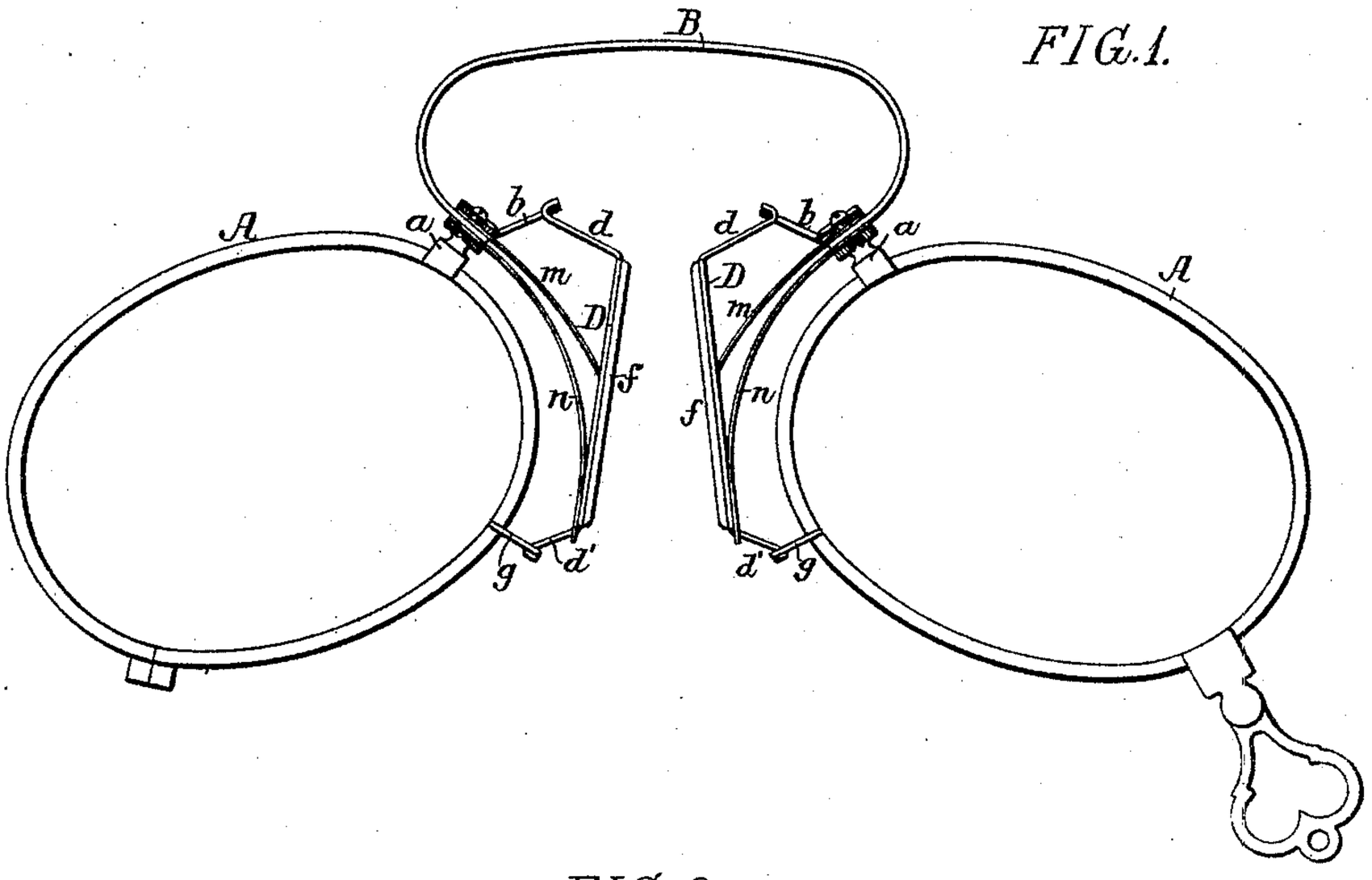
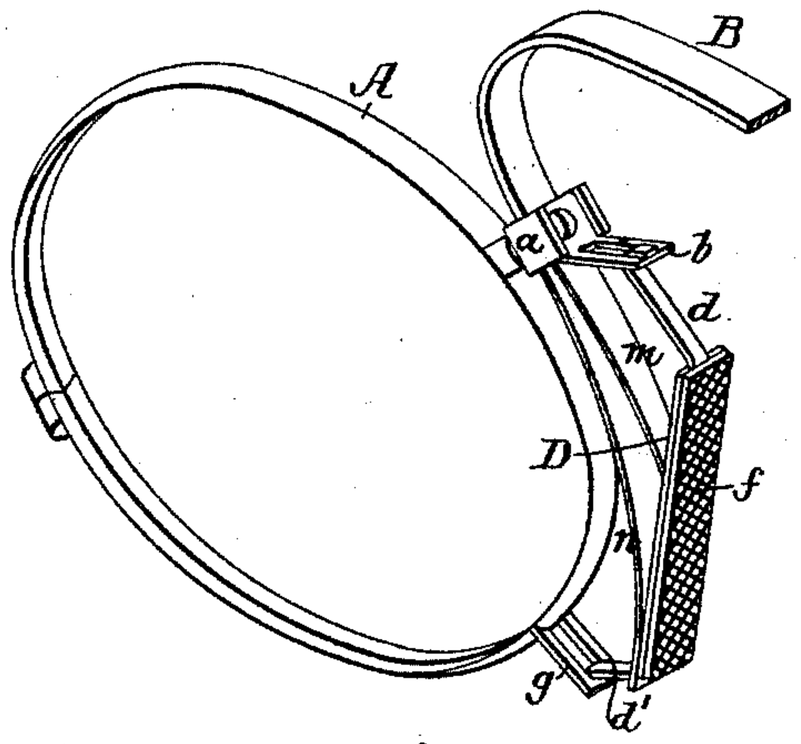


FIG. 2.



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UNITED STATES PATENT OFFICE.

FOWLER W. EMONS AND CLEMENT B. BISHOP, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNORS TO HORATIO N. FITZGERALD, OF SAME PLACE.

EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 436,971, dated September 23, 1890.

Application filed May 19, 1890. Serial No. 352,314. (No model.)

To all whom it may concern:

Be it known that we, FOWLER W. EMONS and CLEMENT B. BISHOP, both citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented certain Improvements in Eyeglasses, of which the following is a specification.

Our invention relates to that class of eyeglasses in which the nose-pieces are supported so as to be free to move both at top and bottom to accommodate themselves to the nose, the object of our invention being to so construct the supporting and retaining devices for the nose-pieces that the latter will have perfect freedom of movement from and toward the nose, and yet will be properly retained in other directions, the device, moreover, being of simple and economical construction.

In the accompanying drawings, Figure 1 is an enlarged view, partly in section, of a pair of eyeglasses constructed in accordance with our invention; and Fig. 2 is a perspective view of part of the same.

A A represent the usual lens frames of the eyeglasses, which are connected by a spring B, secured to studs *a* on the frames A, in the usual manner; also secured to each stud *a* is a bent lug *b*, projecting upward and inward from the stud, and this lug is slotted for the reception of the hooked upper end *d* of the nose-piece bar D, which carries the usual pad *f*, and is likewise hooked at its lower end *d'* for adaptation to a slotted lug *g* on the lens-frame A.

Confined to each of the studs *a* are a pair of springs *m* and *n*, the latter being longer than the spring *m*, and both springs bearing against the nose-piece bar D, so as to push the same outward to the full limit permitted by contact of the hooked ends of the bar with the slotted lugs *b* and *g*, the lower end of the spring *n* being slotted so as to embrace the bar D, and thus serve to vertically support the nose-piece. It will be observed that, owing to this construction, the nose-piece is not only free to move bodily from and toward the lens-frame; but it can also yield independently at top and bottom, for the nose-piece is supported wholly by the spring *n*, the slotted lugs *b* and *g* simply serving to restrict the outward movement. If desired, the spring *n* may be riveted to the bar D at the lower end; but the construction shown is preferred, as a single screw at each stud *a* is then all that is necessary in order to hold the parts together. The spring *n* only may be used, if desired, for each nose-piece, although the use of two springs is preferred, because of the more uniform action of the same upon the nose-piece, and the lugs *b* may, if desired, be continuations of the spring B.

By using nose-piece springs independent of the spring B the character of said springs may be adapted to the special duty which they have to perform, whereas, when the nose-pieces are acted upon by extensions of the bridge-spring, the stiffness of the latter is, in many cases, disproportionate to the work of supporting and projecting the nose-pieces.

Having thus described our invention, we claim and desire to secure by Letters Patent—

1. The combination of the lens-frames and their connecting-spring, the nose-piece bars having hooked ends, slotted lugs on the frames for retaining said hooked ends, and supporting-springs acting on the backs of the nose-pieces to project the same, substantially as specified.

2. The combination of the lens-frames and the connecting-spring, the nose-pieces having hooked ends, supporting-springs, and a supplementary projecting spring for each nose-piece, and slotted lugs serving as retainers for the hooked ends of the nose-piece bars, substantially as specified.

3. The combination of the lens-frames, the connecting-spring, the nose-pieces having hooked bars, slotted lugs serving as stops for said hooked bars, and springs engaging with the lower portions of the nose-piece bars and serving both to project and support the same, substantially as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

FOWLER W. EMONS.
CLEMENT B. BISHOP.

Witnesses:
EUGENE ELTERICH,
HARRY SMITH.