

(No Model.)

F. MINK.
WATCH BOW FASTENER.

No. 496,943

Patented May 9, 1893.

FIG. 1.

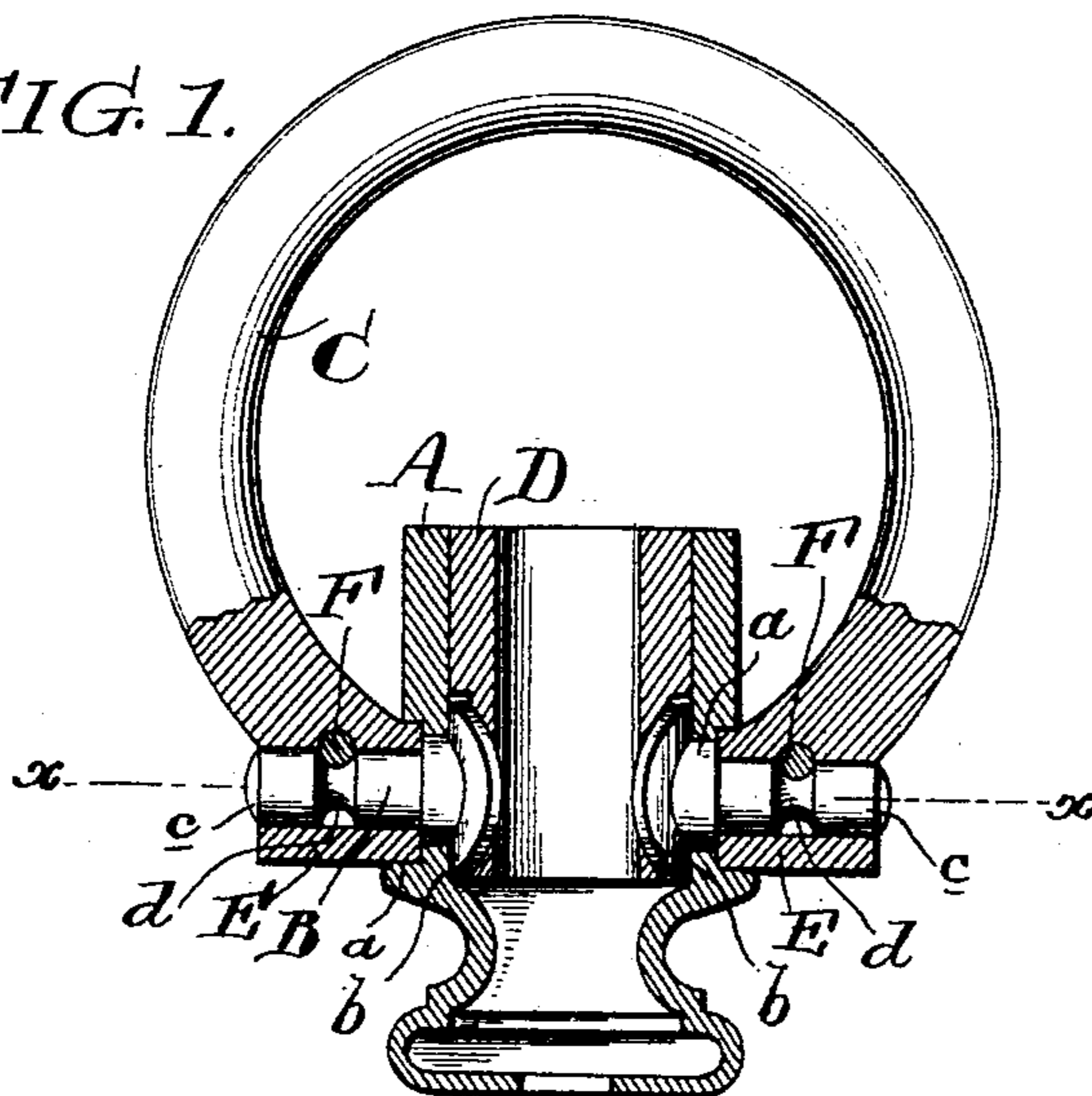


FIG. 2.

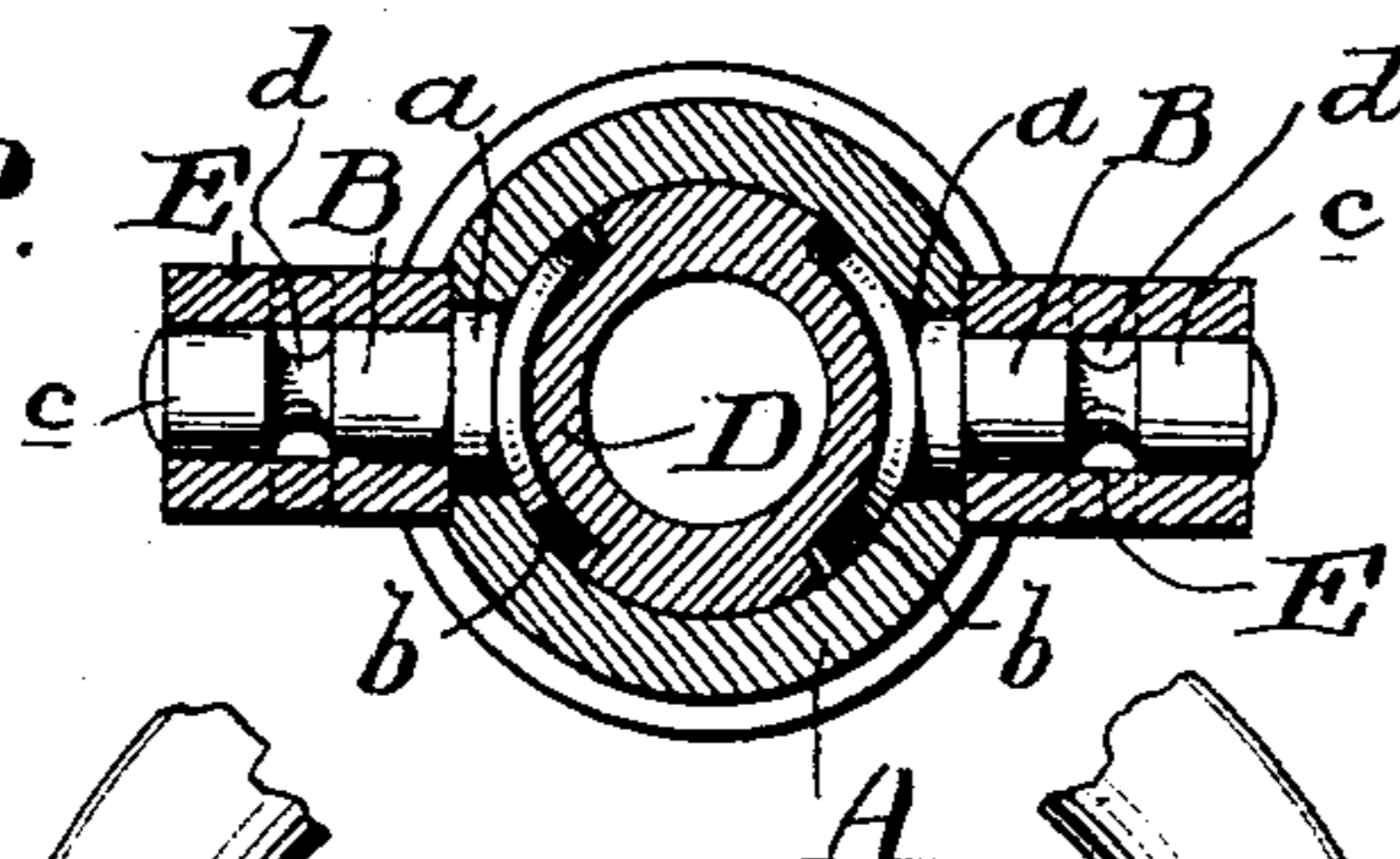


FIG. 3.

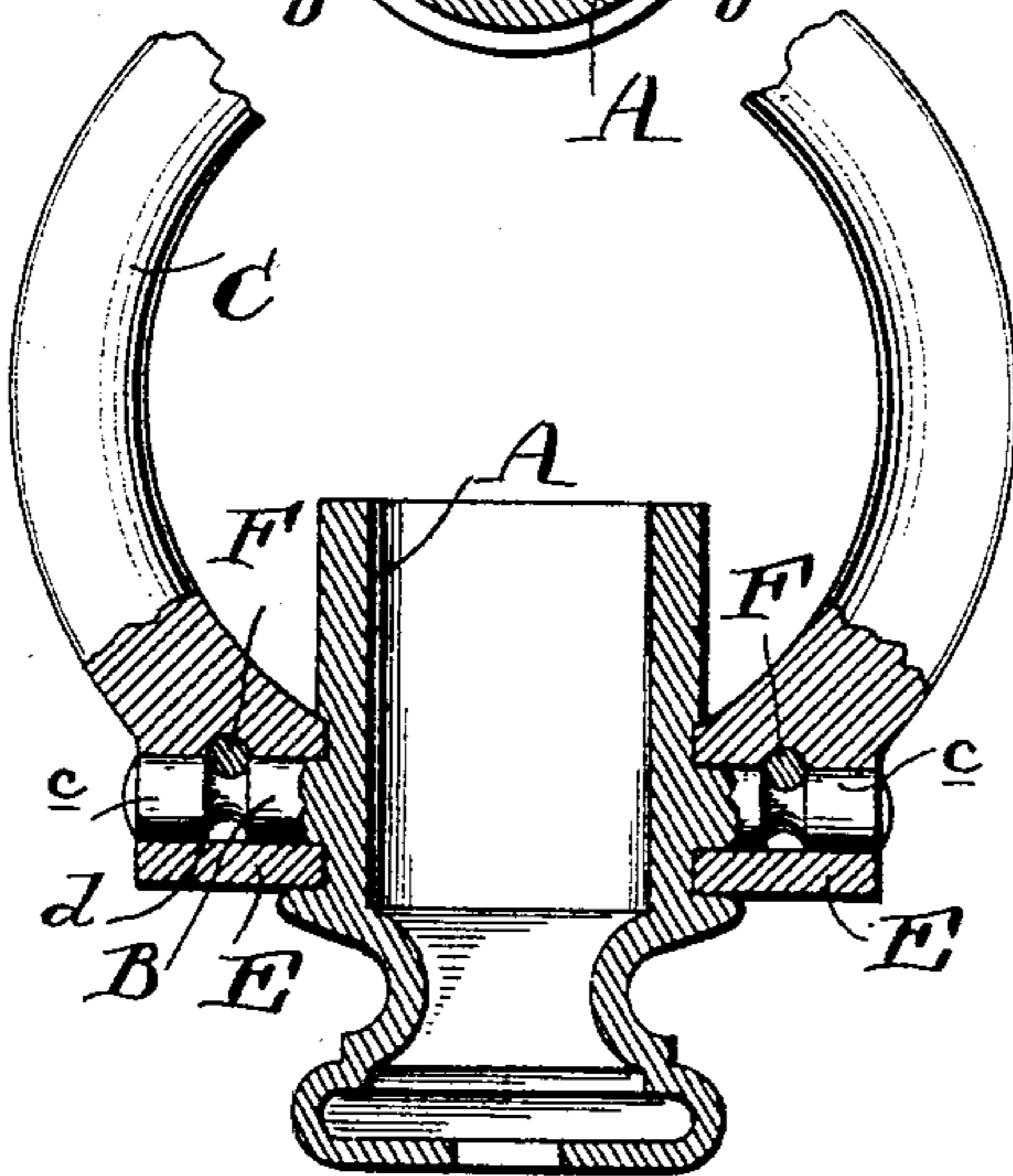
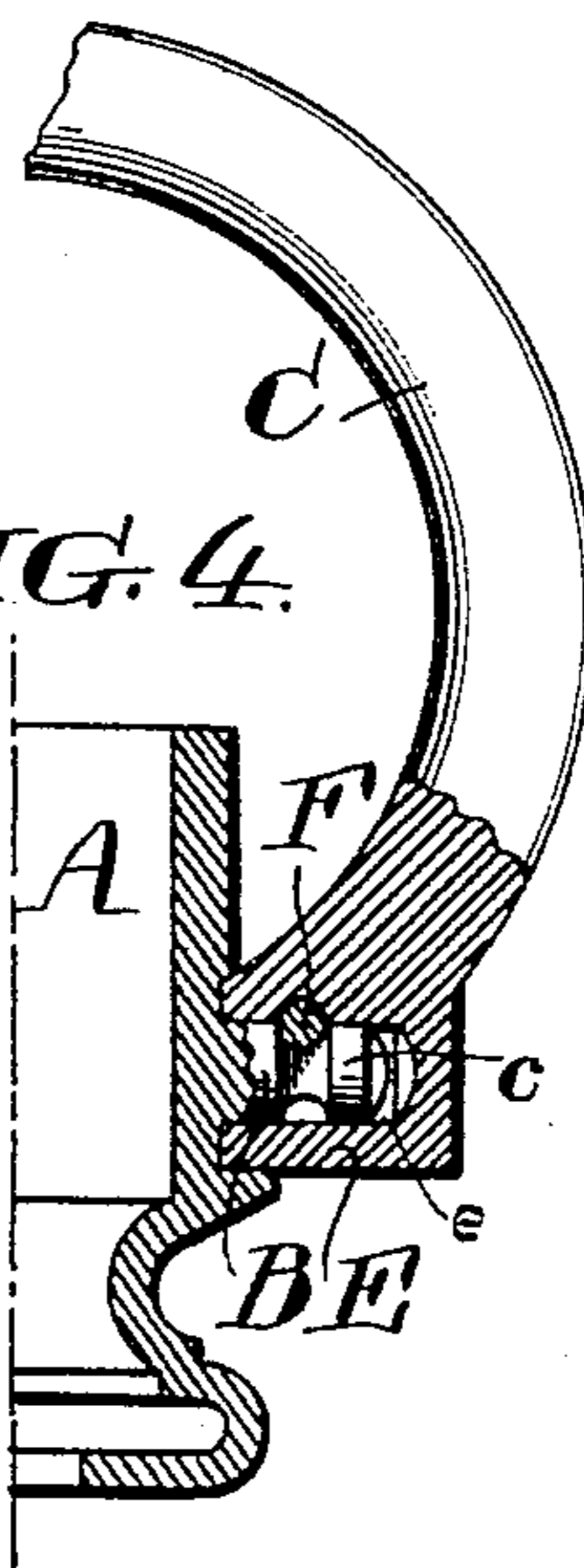


FIG. 4.



WITNESSES:

Henry D. Mink
Attorney

INVENTOR:

Fritz Mink,
By his attorney,

[Signature]

UNITED STATES PATENT OFFICE.

FRITZ MINK, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE
KEYSTONE WATCH CASE COMPANY, OF SAME PLACE.

WATCH-BOW FASTENER.

SPECIFICATION forming part of Letters Patent No. 496,943, dated May 9, 1893.

Application filed November 29, 1892. Serial No. 453,527. (No model.)

To all whom it may concern:

Be it known that I, FRITZ MINK, of the city and county of Philadelphia and State of Pennsylvania, have invented an Improvement in Watch-Bow Fasteners, of which the following is a specification.

My invention relates to watch bow fasteners, and consists of certain improvements which are fully set forth in the following specification and are shown in the accompanying drawings.

It is the object of my invention to provide a watch case with a convenient and economical device for fastening the ends of the bow to the pendant of the case, so that the watch may not be wrenched from the bow either by accident or design, and the bow while securely fastened may have the usual freedom of the swinging movement upon the pendant.

It is also my object while providing such a fastening device, to preserve the usual neat appearance of the watch, and to permit the bow to be easily disconnected from the pendant when desired for the purpose of making repairs.

In carrying out my invention I employ a pendant provided with laterally projecting arms having heads or annular grooves, and a bow having its end provided with sockets or eyes sleeved upon the pendant arms and fastened thereto by pins carried by the ends of the bow and extending back of the heads on the arms of the pendant.

I shall now refer to the drawings for the purpose of more particularly describing my invention.

Figure 1 is a vertical sectional view of a watch case pendant having a bow with its ends secured by my improved fastening device. Fig. 2 is a horizontal sectional view of the same on the line $x-x$ of Fig. 1. Fig. 3 is a vertical sectional view of the pendant and bow similar to Fig. 1 illustrating a slight modification; and Fig. 4 is a vertical sectional view of part of a pendant and bow illustrating another slight modification.

A is the pendant of the watch case.

B are laterally projecting arms carried by the pendant. It is immaterial to the invention whether these arms are integral with the metal of the pendant as in Fig. 3, or separate

and subsequently applied to the pendant as in Figs. 1 and 2. If the arms are made separate they may be applied to the pendant in any convenient manner. In Figs. 1 and 2 they are shown inserted from the interior of the pendant through apertures a therein, and provided with flanges b on their inner ends bearing against the interior of the pendant and locking the arms against outward movement with a locking piece D inserted in the inside of the pendant and fitting against the flanges b to lock the arms B against inward movement. The arms B are provided with heads c , preferably formed by annular grooves d .

C is the watch case bow having its ends provided with eyes E which are sleeved upon the arms B so as to be free to rotate thereon. In Figs. 1, 2 and 3 I have shown the eyes E formed by apertures extending entirely through the metal of the ends of the bow, while in Fig. 4 they are shown formed with sockets or recesses e , into which the arms B extend the metal of the ends of the bow being not bored entirely through. The eyes E are locked upon the arms B by pins or screws F carried by the metal of the ends of the bow and projecting into the eyes E so as to extend on the inside of the heads c , thus locking the ends of the bow C upon the arms B, while permitting them to swivel freely thereon.

The pins or screws F are inserted after the ends of the bow have been placed upon the arms. It is apparent that they may be made removable, so that the bow may be detached from the pendant for the purposes of repairs.

In the drawings I have shown the pins F extending tangentially into the grooves d . This is preferable as it makes the fastening more firm and reduces the wear, but it is not necessary to the invention, as it is apparent that the pins or screws may be inserted with their ends projecting into the grooves d or back of the heads c . These and other minor details of construction may be varied without departing from the invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with the pendant of a watch case having laterally projecting arms

provided with heads upon their ends, of a bow having its ends sleeved upon said arms, and pins or screws carried by the ends of the bow and extending behind the heads on the ends 5 of the arms whereby the ends of the bow may turn freely on the arms as bearings but are held against withdrawal therefrom.

2. The combination with the pendant of a watch case having laterally projecting arms 10 provided with annular grooves of a bow having its ends sleeved upon said arms, and pins or screws carried by the ends of the bow and extending into the grooves on the arms.

3. The combination with the pendant of a watch case having laterally projecting arms 15 provided with annular grooves of a bow having its ends sleeved upon said arms, and pins or screws carried by the ends of the bow and extending tangentially into the grooves on the arms. 20

In testimony of which invention I have hereunto set my hand.

FRITZ MINK.

Witnesses:

ERNEST HOWARD HUNTER,
H. L. MOTHERWELL.