(No Model.)

F. MINK.

WATCH BOW FASTENER.

No. 454,827. Patented June 23, 1891.

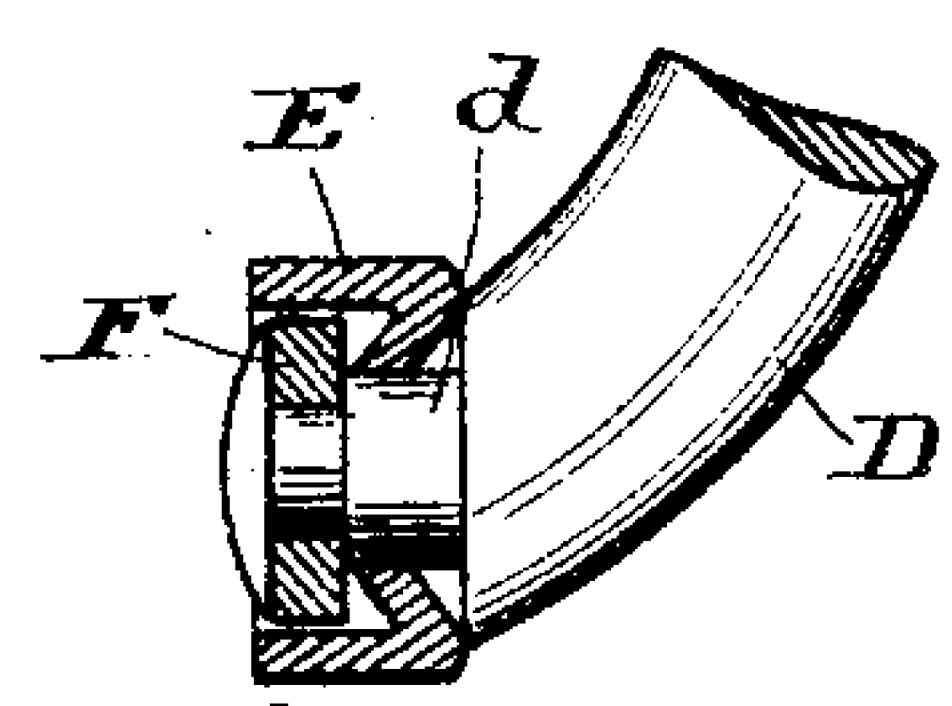


Fig. 2.

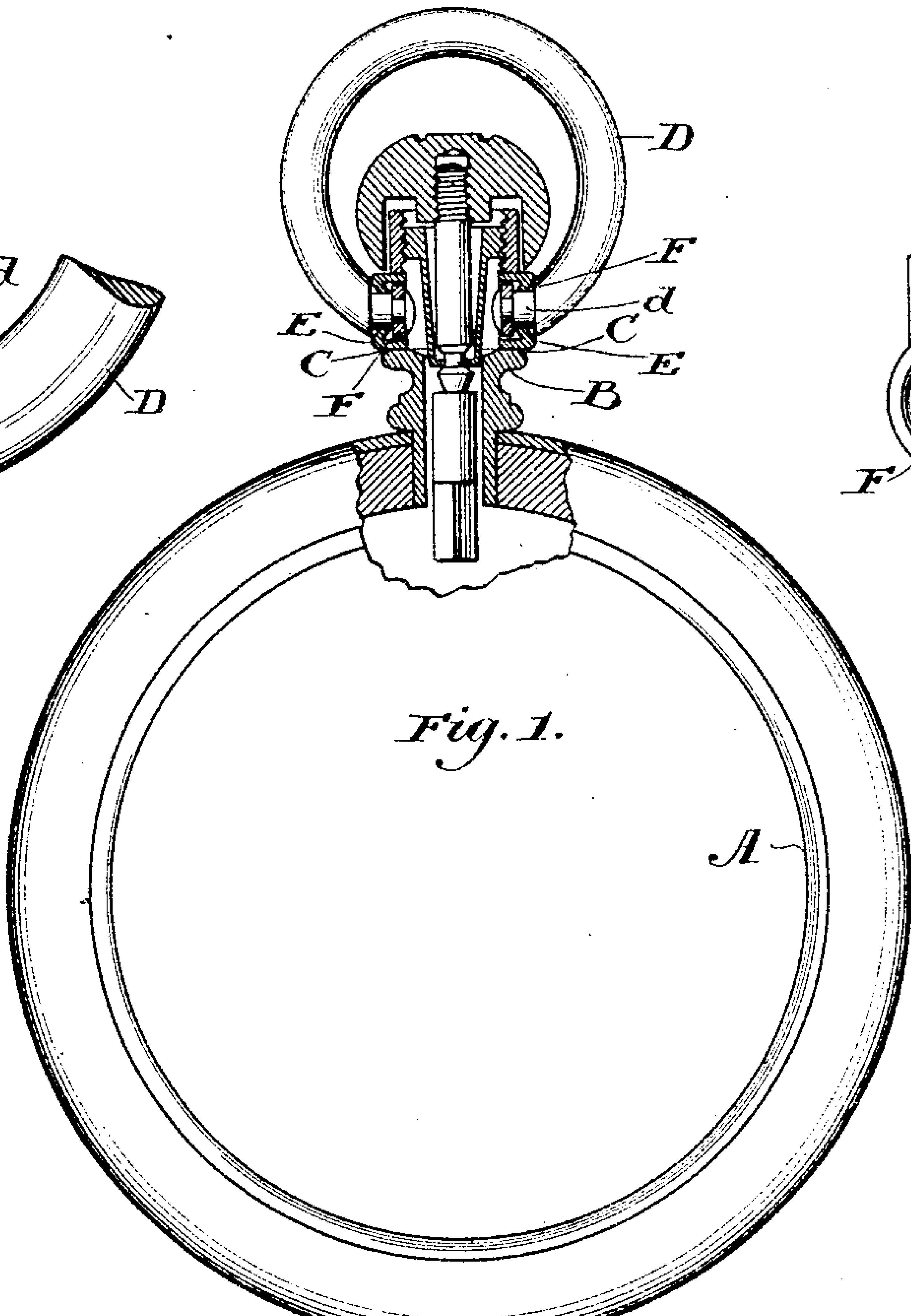


Fig. 1.

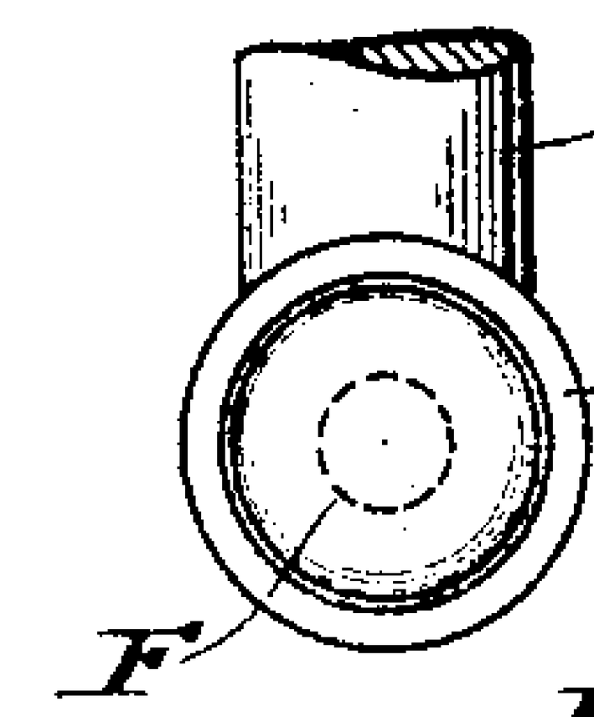


Fig. 3.

Fig. 4.

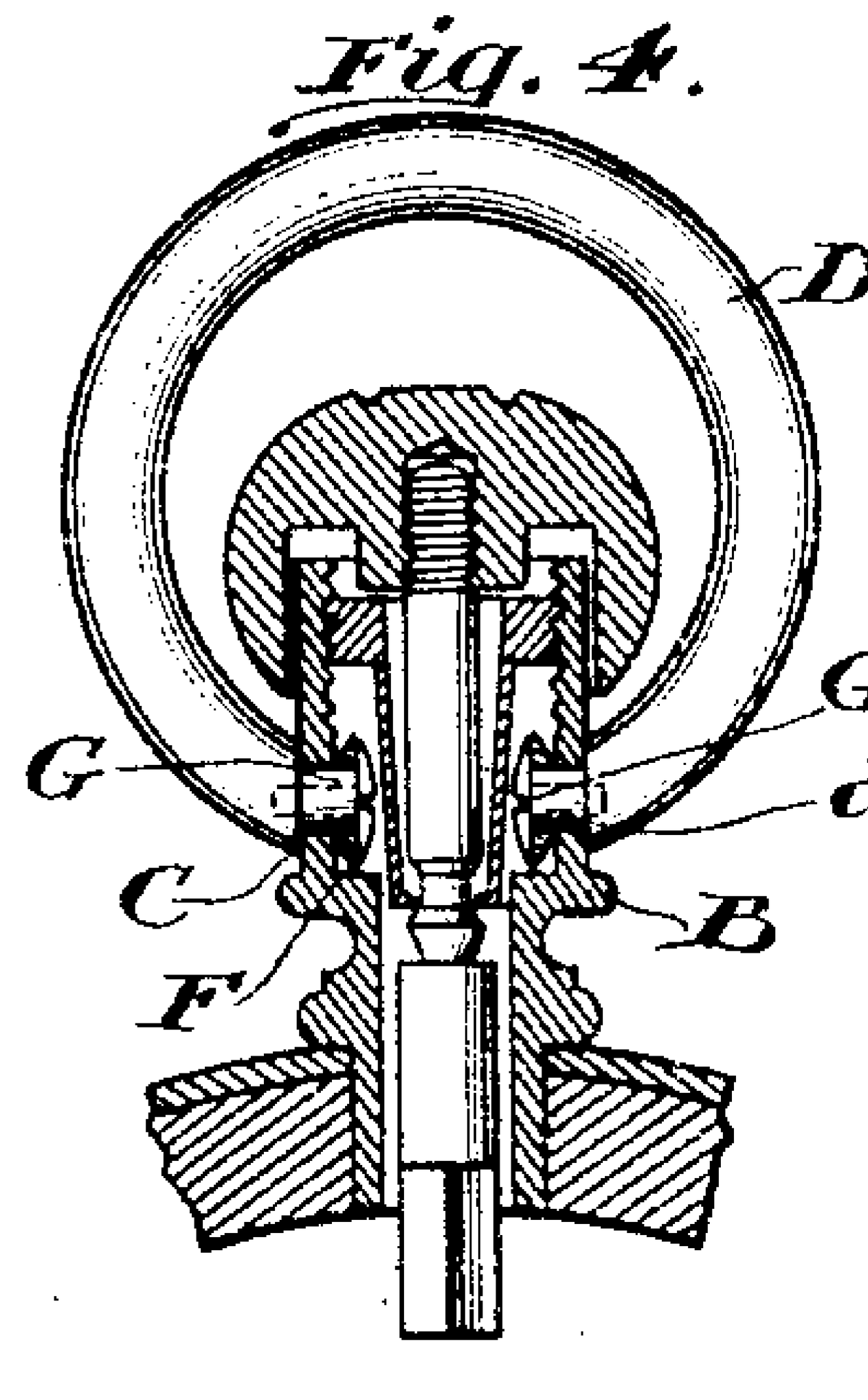
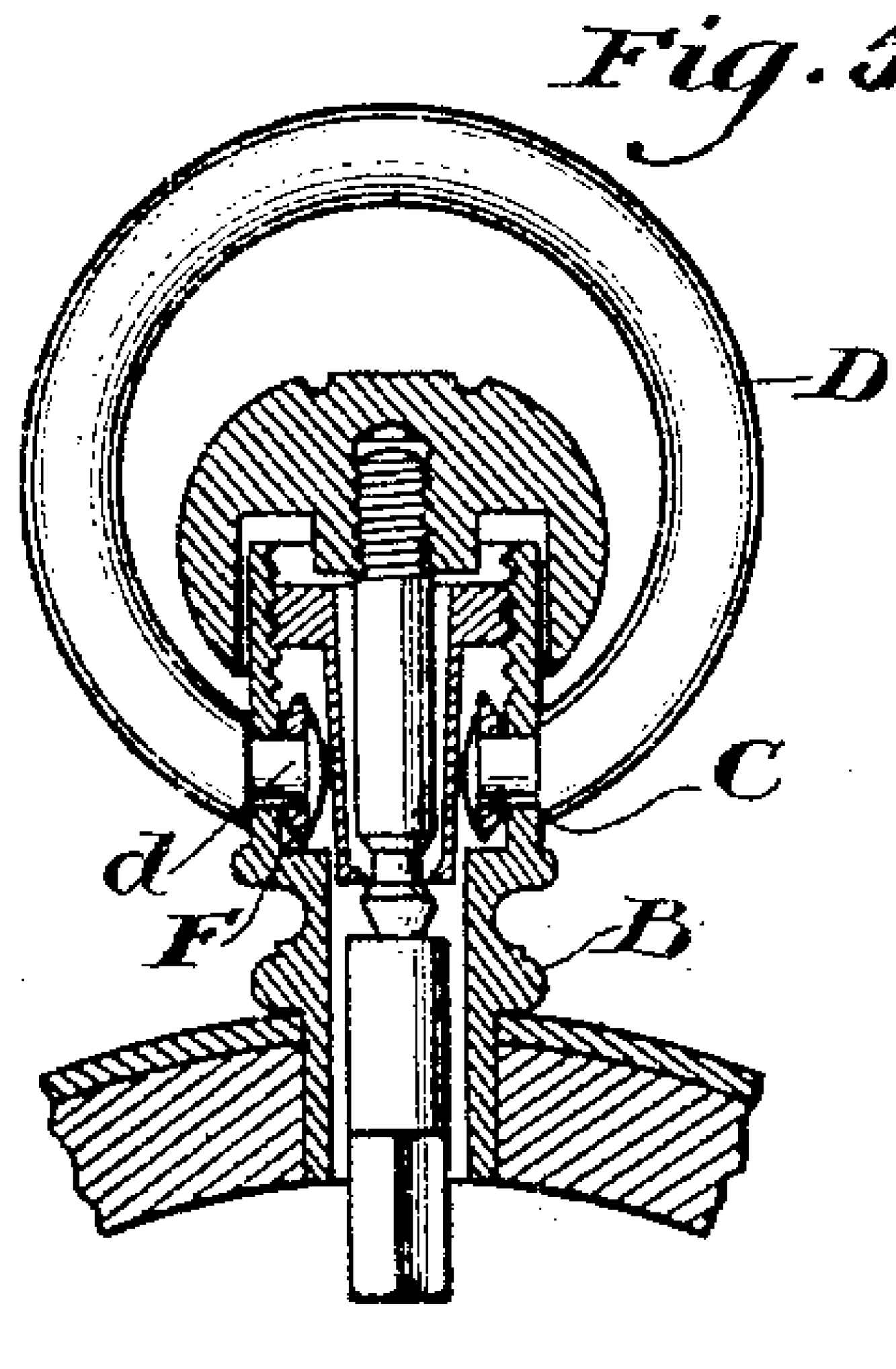


Fig. 5.



WITNESSES:

[illegible]

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INVENTOR:

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By his atty

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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. 454,827, dated June 23, 1891.

Application filed January 3, 1891. Serial No. 376,617. (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 it consists of certain improvements which are fully set forth in the following specification, and are shown in the accompanying drawings, which form a part thereof.

The object of my invention is to firmly secure the ends of a watch-bow within the pendant of the watch-case while permitting to the bow the usual freedom of movement.

In carrying out my invention I form the pendant of the watch-case with apertures to receive the ends of the bow, and upon the projecting ends of the bow, upon the interior, I place washers or nuts to prevent the ends of the bow being withdrawn through the apertures. The ends of the bow may be inserted directly in apertures formed in the metal of the pendant or in ears inserted therein, and the locking of the nut or washer may be accomplished in many different ways, as is hereinafter more fully set out.

In the drawings, Figure 1 is a side elevation of a watch case and bow with the pendant in section. Fig. 2 is a side elevation, on an enlarged scale, of one of the bow ends with the ear and fastener in section detached from the pendant. Fig. 3 is an end elevation of the same. Figs. 4 and 5 are sectional side elevations of watch-pendants embodying modifications of my invention.

A is the watch-case.

B is the pendant, provided upon diametrically-opposite sides with apertures C C.

D is the bow, which is shown formed with diminished or shouldered ends *d*. These shouldered or diminished ends, while preferable, may be omitted, if desired.

E are ears inserted in the apertures C C of the pendant, having central openings for the ends of the bow.

F are washers or nuts, which are suitably fastened upon the projecting ends of the bow to prevent said ends being withdrawn through the holes.

In Figs. 1, 2, 3, and 5 the washers are shown fastened by upsetting the ends of the bow. In Fig. 4 the washers are secured by means of large-headed pins or screws G, attached to the ends of the bow and projecting over the washers.

In the construction shown in Figs. 4 and 5 the ears E are omitted, and the ends of the bow are inserted directly through the apertures C. In these constructions the washers or nuts F are tapered or beveled adjacent to the metal of the pendant to permit them to turn freely and avoid binding upon the curved inner surface of the pendant. The ends of the bow may, however, be loosely journaled in the washers F and free to turn therein, in which case the tapering of the washer, as shown in Figs. 4 and 5, would be unnecessary.

While I prefer the details of construction which are here shown, I do not limit my invention to them, as they may be varied without departing from the principles of it.

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

1. In a watch-bow fastener, the combination of a watch-pendant, a bow having its ends projecting upon the interior of the pendant, and washers loosely carried upon said projecting ends of the bow to prevent said ends being withdrawn from the pendant, and means to lock said washers upon the ends of the bow.

2. In a watch-bow fastener, the combination of a watch-pendant having apertures upon diametrically-opposite sides, a bow having its ends inserted in said apertures and projecting through the metal on the interior, and washers carried by the projecting ends of said bow and having their faces adjacent to the inner surface of the pendant beveled, whereby the ends of said bow are locked within the pendant by said washers.

3. In a watch-bow fastener, the combination of a watch-pendant having apertures

upon diametrically-opposite sides, ears located in said apertures and having a depressed inner surface adjacent to the central opening thereof, a watch-bow having its ends inserted through the central opening of said ears, and washers carried by the ends of the bow upon the interior of the pendant.

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

FRITZ MINK.

Witnesses:
M. E. ENGLISH,
JOSEPH M. CANFIELD,