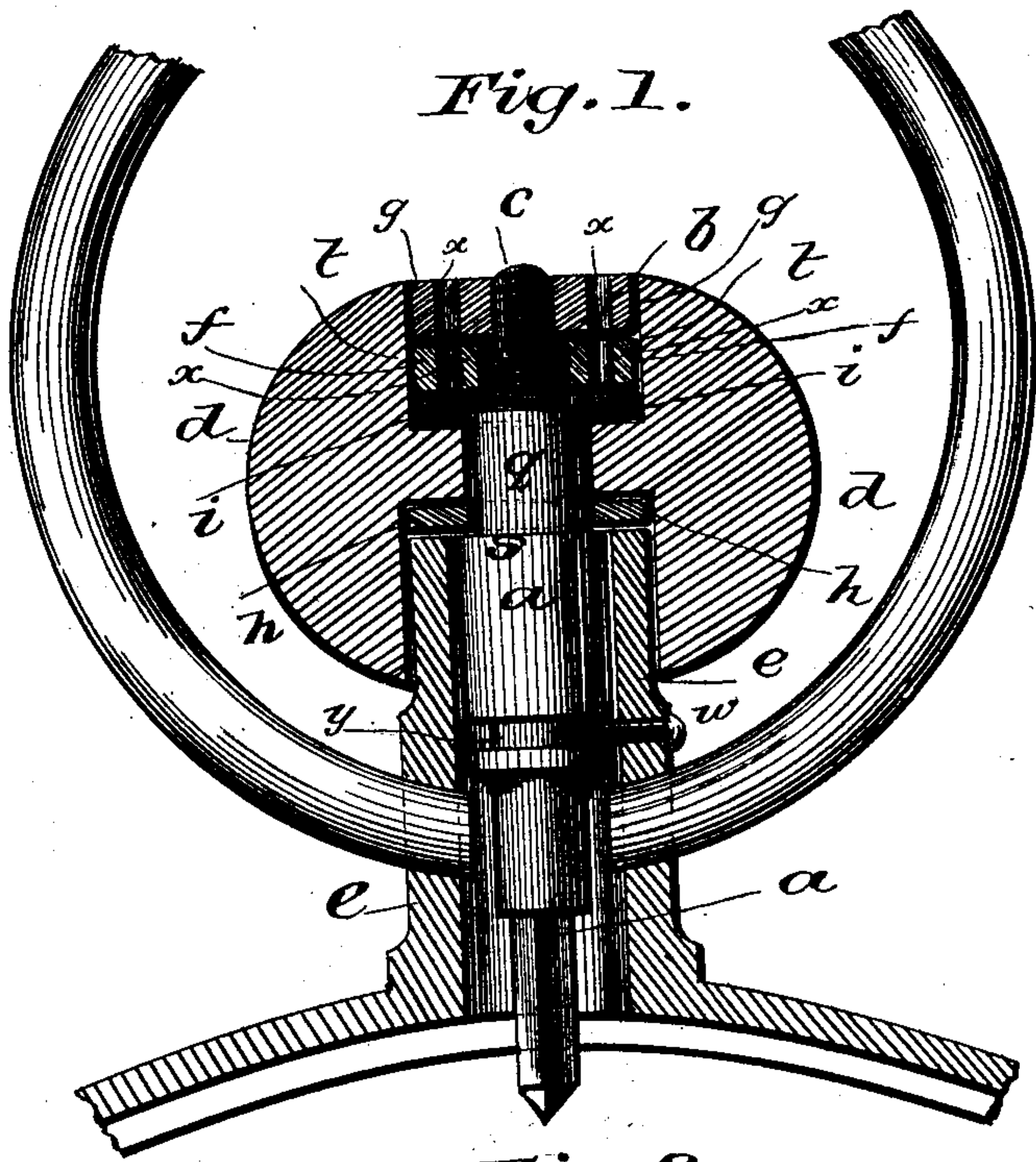


(No Model.)

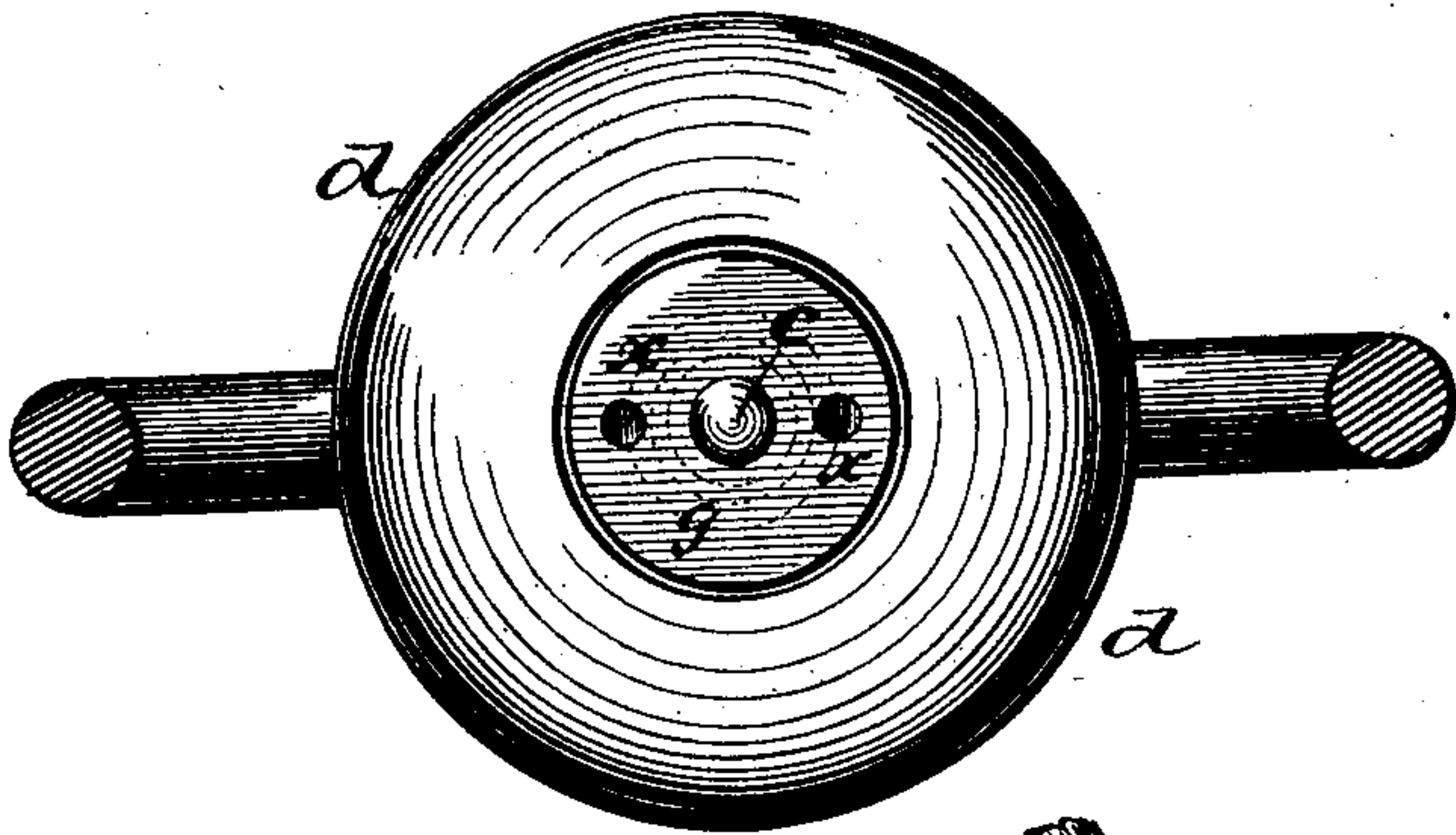
H. ROHRDANTZ.  
PENDANT STEM FOR WATCHES.

No. 361,597.

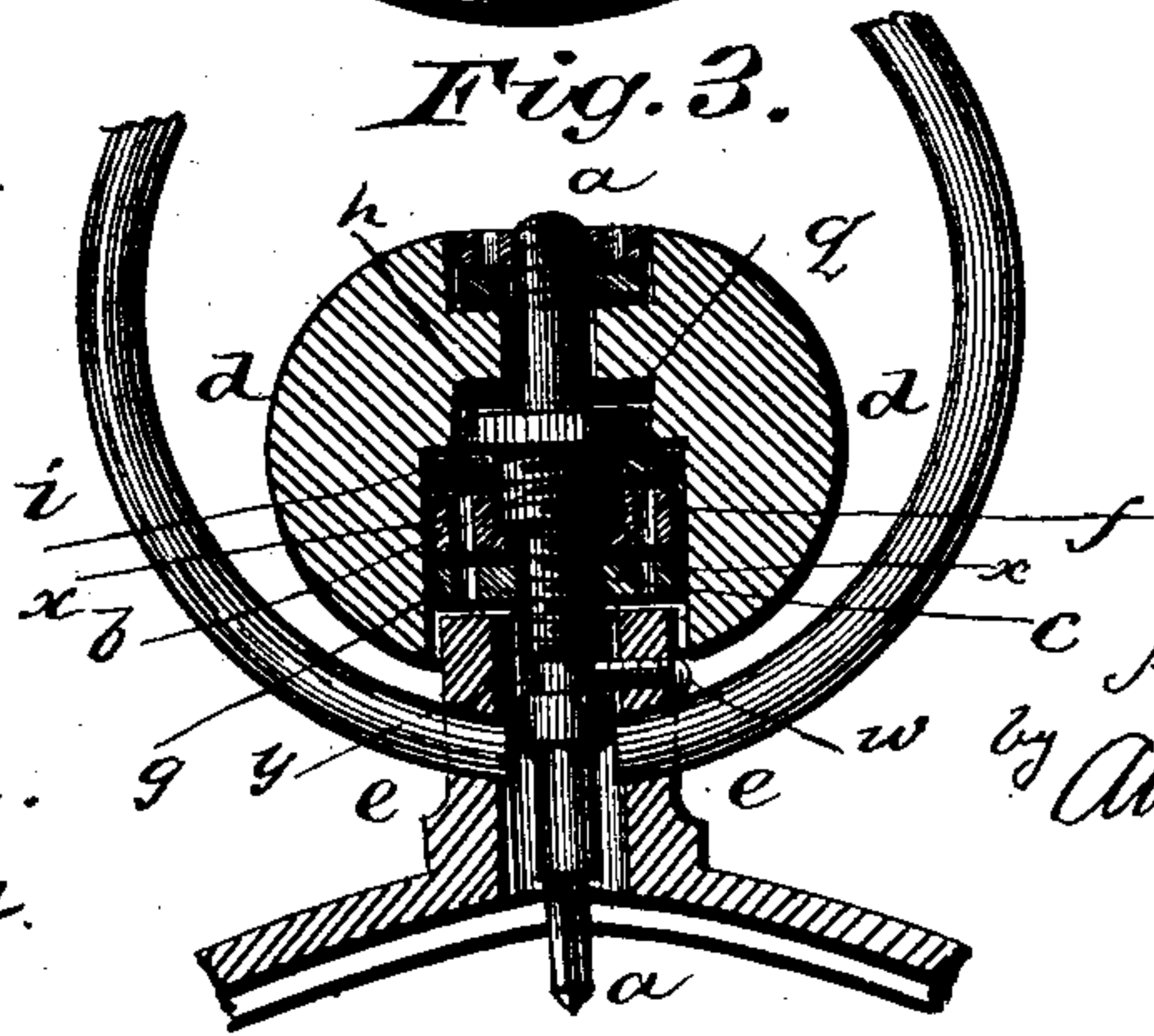
Patented Apr. 19, 1887.



*Fig. 2.*



*Fig. 3.*



*WITNESSES*

Phil. Massi.  
Theo. Mungen.

INVENTOR

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his Attorneys



# UNITED STATES PATENT OFFICE.

HENRY ROHRDANTZ, OF RIVERHEAD, NEW YORK.

## PENDANT-STEM FOR WATCHES.

SPECIFICATION forming part of Letters Patent No. 361,597, dated April 19, 1887.

Application filed January 15, 1887. Serial No. 224,473. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY ROHRDANTZ, a citizen of the United States, and a resident of Riverhead, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Stem-Winding Watches; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a vertical longitudinal section through a watch-pendant. Fig. 2 is a plan view of the same. Fig. 3 is a vertical longitudinal section showing a modification.

My invention relates to stem-winding watches; and it consists in the construction and novel combination of parts, as hereinafter described and claimed.

The object of the invention is to protect the mainspring and ratchet-wheels when winding the watch.

Referring by letter to the accompanying drawings, *e* designates the pendant on the watch-case.

*a* is the stem, which is provided with the reduced portions *q b c*, which decrease in diameter in the order named. The portion *q* has a plain periphery, the portion *b* is provided with a left-hand thread, and the portion *c* is provided with a right-hand thread.

*d* designates the head of the winding device, said head being provided with a seat in its lower side, which seat fits over the stem *a* and also over the pendant *e* on the case.

*h* is a steel washer or annular plate, which is interposed between the shoulder *s* of the stem *a* and the lower face of the head.

In its upper portion the head *d* is provided with a seat, *t*, into which the portions *b c* of the stem *a* project. A washer or steel plate, *i*, is first put in place in the seat *t*. The collar *f*, which is threaded internally, is then screwed to place on the portion *b*, said portions being provided with left-hand threads. The collar *g* is then screwed to place on the portion *c*, said portions *g* and *c* being provided with right-hand threads. The collars *f* and *g* are provided with holes *x x*, for the reception of the points of the tool by which said collars are

turned to place. The stem is secured in the pendant by a screw, *w*, the point of which enters a groove, *y*, in the stem.

In this construction it will be observed that the right-hand collar is put upon the left-hand collar. The left-hand collar should be put on tight enough to permit the head to be just movable to the left. The right-hand collar should then be put in place. The left-hand collar will loosen a little by continuing to turn the head after winding but not enough to turn the head too loose, for the reason that the right-hand screw-threads will prevent it.

The device can be so regulated that by winding, the head will not move around the stem; but when the winding stops and the person keeps on turning, the head will turn without affecting the mainspring and ratchet-wheels. When once properly regulated, it will not get out of order, as it will either loosen or tighten by winding, as may be necessary.

The precise arrangement above described is not essentially necessary to produce the desired result, as the right and left hand collars may be put on the stem in the lower part of the head without departing from the character of the invention, it being a change in location only.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the pendant and gearing of a watch, of the shouldered stem having the right-hand and left-hand threads, the washer *h*, the head *d*, washer *i*, and the collars *f* and *g*, provided with left-hand and right-hand threads, respectively, substantially as specified.

2. In a stem-winding watch, the combination, with the winding-stem having right and left hand threads, of a turning cap or head, frictionally-acting connecting plates or bearings between said stem and head, and adjustable devices to regulate the degree of friction, so that the head will slide on said stem when the mainspring is fully wound, substantially as specified.

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

HENRY ROHRDANTZ.

Witnesses:

R. T. SKIDMORE,  
R. G. BENJAMIN.