

W. H. Fitzgerald,

Stem Winding Watch.

No. 111,334.

Patented Jan. 31. 1871.

Fig. 1.

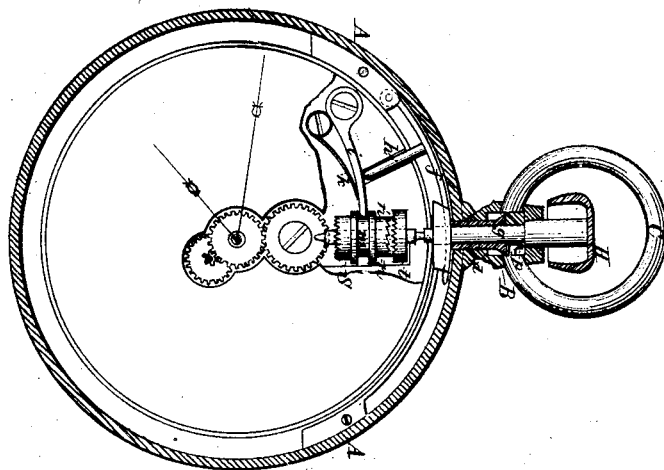
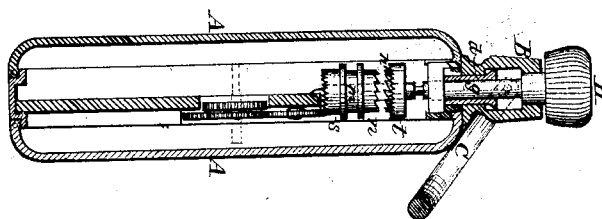


Fig. 2.



Witnesses:

A. Spaulding

Benjamin B. Smith

Walter H. Fitzgerald Inventor.

United States Patent Office.

WALTER H. FITZ GERALD, OF CARLSTADT, NEW JERSEY, ASSIGNOR TO
SPADONE & FITZGERALD, OF NEW YORK CITY.

Letters Patent No. 111,334, dated January 31, 1871.

IMPROVEMENT IN STEM-WINDING WATCHES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WALTER H. FITZ GERALD, of Carlstadt, county of Bergen and State of New Jersey, have made a new and useful Improvement in Stem-winder Watches; and I hereby declare the following to be a full and exact description, reference being had to the annexed sheet of drawing, which forms part of this specification.

Figure 1 shows a plan view of a watch-face, with a portion of the face-plate cut away, so as to exhibit my invention.

Figure 2 is a cross-sectional elevation of the same.

My improvement relates to watches having the ordinary stem-winder movements.

In such watches the devices for setting the hands are thrown in and out of gear with stem-winding gear, by means of a push-piece or pin projecting from the center of the case. By pressing on this pin the hand-setting gear is thrown into connection with the winding stem. In my improvement this push-pin remains in the same position as in ordinary stem-winding watches. The whole of the movement is also the same. But instead of operating the push-pin from the outside of the case it is moved by a lever on the side of the case, which lever is moved by a sleeve on the stem, which sleeve is moved by a projecting pin, bent at right angles on the bow-ring.

The following description will enable others to make and use my invention.

A is the case of the watch.

B, the stem.

C, the pendent bow.

H, the milled head for turning in winding or hand-setting.

p a pin, bent at right angles; and projecting from the end of the bow.

d, the sleeve around the spindle g, to be pressed down by the pin p, on turning the bow to the position shown in fig. 2.

The sleeve d acts upon the lever f which moves the push-pin h.

This pin h is the same in position and function as the projecting pin in the ordinary stem-winding watches.

The pin h moves the pivoted lever i, which moves collar m, so as to release the clutch n from the counter-clutch n', and throw the crown-wheel s into gear with the hand-set pinions.

When sleeve d is released by returning the bow to the position shown in fig. 1, the spring K acting on the pivoted lever i throws the collar m up to the position shown in fig. 1, so that the clutch n engages with the counter-clutch n', which brings into connection the winding-gear, by means of the crown-wheel t.

The position of the collar m, when the winding-gear is thrown out, is shown in fig. 2.

The parts i, h, m, n, n', s, and t, with their connected gears and pinions, form no part of my invention. They are such as commonly used, and others may be substituted if found convenient.

My invention relates only to the devices necessary to move the push-pin h so as to bring into action, at pleasure, either the winding-gear or the hand-set.

The advantage of my improvement over others that move into gear the hand-set by means of the position of the bow-ring on the stem is that the ordinary stem-winding movements are not changed, and the push-pin h is only shortened so as not to project beyond the case.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The combination and arrangement of the lever f, and push-pin h, with sleeve d, or its equivalent, so as to operate the clutch-lever i, by means of the bow-ring, substantially as described.

WALTER H. FITZ GERALD.

Witnesses:

P. W. WESSELLS,

A. SPADONE.