

(No Model.)

W. H. STEVENS.

STEM WINDING AND SETTING WATCH.

No. 383,673.

Patented May 29, 1888.

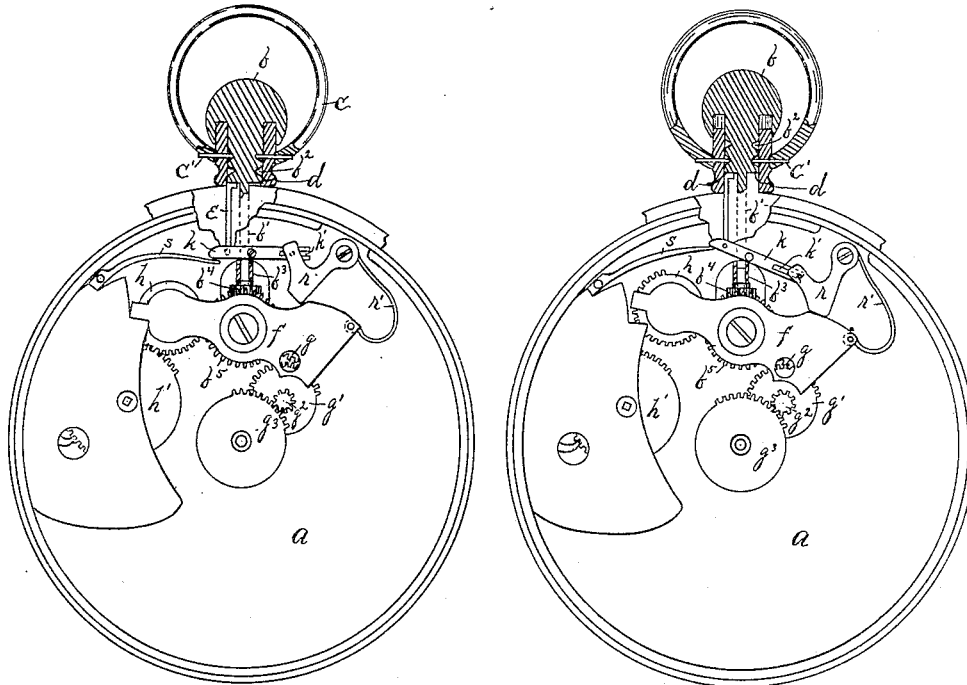


FIG. 1. FIG. 2.

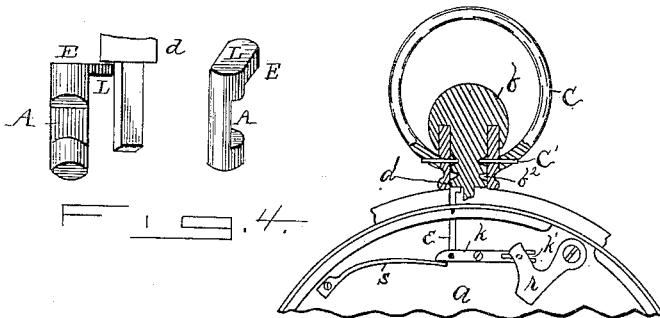


FIG. 3. FIG. 4.

Witnesses:
Otto Hoddick.
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WILLIAM H. STEVENS, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF
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STEM WINDING AND SETTING WATCH.

SPECIFICATION forming part of Letters Patent No. 383,673, dated May 29, 1888.

Application filed May 27, 1887. Serial No. 239,511. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. STEVENS, a citizen of the United States, residing at the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Watch-Movement Attachments, of which the following is a specification.

My invention relates to watches, and is a lever-pendant setting device for watch-movements.

The object of my invention is to improve upon the devices now in use and provide a mechanism which shall be simple in construction, strong and direct in action, and one that is applicable to either hunting-cased or open-faced watches.

I accomplish the objects of my invention by means of the mechanism illustrated in the accompanying drawings, in which like letters refer to corresponding parts in each figure of the drawings.

Figure 1 is a top plan view of the winding and setting mechanism of a watch-movement, with portions of the crown or push-pin broken away or in section, and with the setting mechanism out of gear or at rest. Fig. 2 is a similar view of the same parts, but showing the setting mechanism provided by me in gear; and Fig. 3 shows the four parts provided by me and in place. Fig. 4 illustrates details of construction.

The pendant-bow is represented by *c*, and *c'* represents the pivotal pins securing the same, all of ordinary construction. The crown or push-pin is represented by *b*, and is provided with two transverse grooves or indentations, *b²*, an arbor, *b'*, and a shoulder, *d*, against which the head of the plunger *e* is forced by means of spring *s*. The lever of the pendant-set is represented by *k*, and is secured in place by means of a screw near the crown arbor *b'*. This screw acts as its fulcrum. The long arm of the lever has a slot, *k'*, at the end, designed for the reception of a pin located in the end of bell-crank lever *r*, while a pin in the short arm receives the thrusts of the plunger *e*. This plunger is a simple rod provided with toe *L* and a central slot, as shown in Fig. 4, through which passes a stay or safety pin to hold it in place. (See Fig. 3.)

The setting-lever is of the construction shown in the drawings, and is represented by

r. It is secured by a screw at its outer end, and is designed to act upon and force down the end of the tilting lever or yoke carrying the stem winding and setting gear, thereby throwing the winding-gear out and the setting-gear in, besides holding the same in place when thus tilted, and is actuated by the long arm of the pendant-lever *k* in the manner shown.

From the above it will be seen that the only extra pieces required by me are the plunger *e*, pendant-set lever *k*, spring *s*, and setting-lever *r*, and therefore the other mechanism shown need not be further described, as it is all well known and common.

The operation of the device is as follows—viz., to set the watch, draw out the crown *b* far enough to snap the pivotal pins *c'* into the lower of the grooves *b²* of the crown *b*, when the spring *s* will force the short arm of the lever *k* up and the long arm down against the setting-lever *r*, thereby tilting the lever *f*, so as to release the winding gear and engage the setting-gear. The setting is then accomplished by revolving the crown *b*. After setting, return the mechanism to place by forcing down the crown *b* until the pins *c'* pass from the lower to the upper grooves. This will force down the plunger *e* and the short arm of the lever *k*, when the spring *s* will tilt the lever *f* to its former position, (shown in Fig. 1,) thereby throwing into gear the winding mechanism and releasing the setting-gear.

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

1. The herein shown and described setting attachment for watch-movements, consisting of the combination, with tilting lever or yoke *f*, of the plunger *e*, spring *s*, and levers *k* and *r*, all substantially as shown, and for the purposes set forth.

2. In a pendant setting attachment for watch-movements provided with a tilting lever or yoke *f*, and revolving crown *b*, having notched arbor *b'*, the herein shown and described plunger *e*, actuated by the revolving crown *b*, and adapted to force a tilting lever, thereby throwing the setting mechanism into gear, as and for the purposes set forth.

WM. H. STEVENS.

Witnesses:

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