

(No Model.)

J. J. CROUGHIN.
STEM WINDING WATCH.

No. 418,401.

Patented Dec. 31, 1889.

Fig. 1.

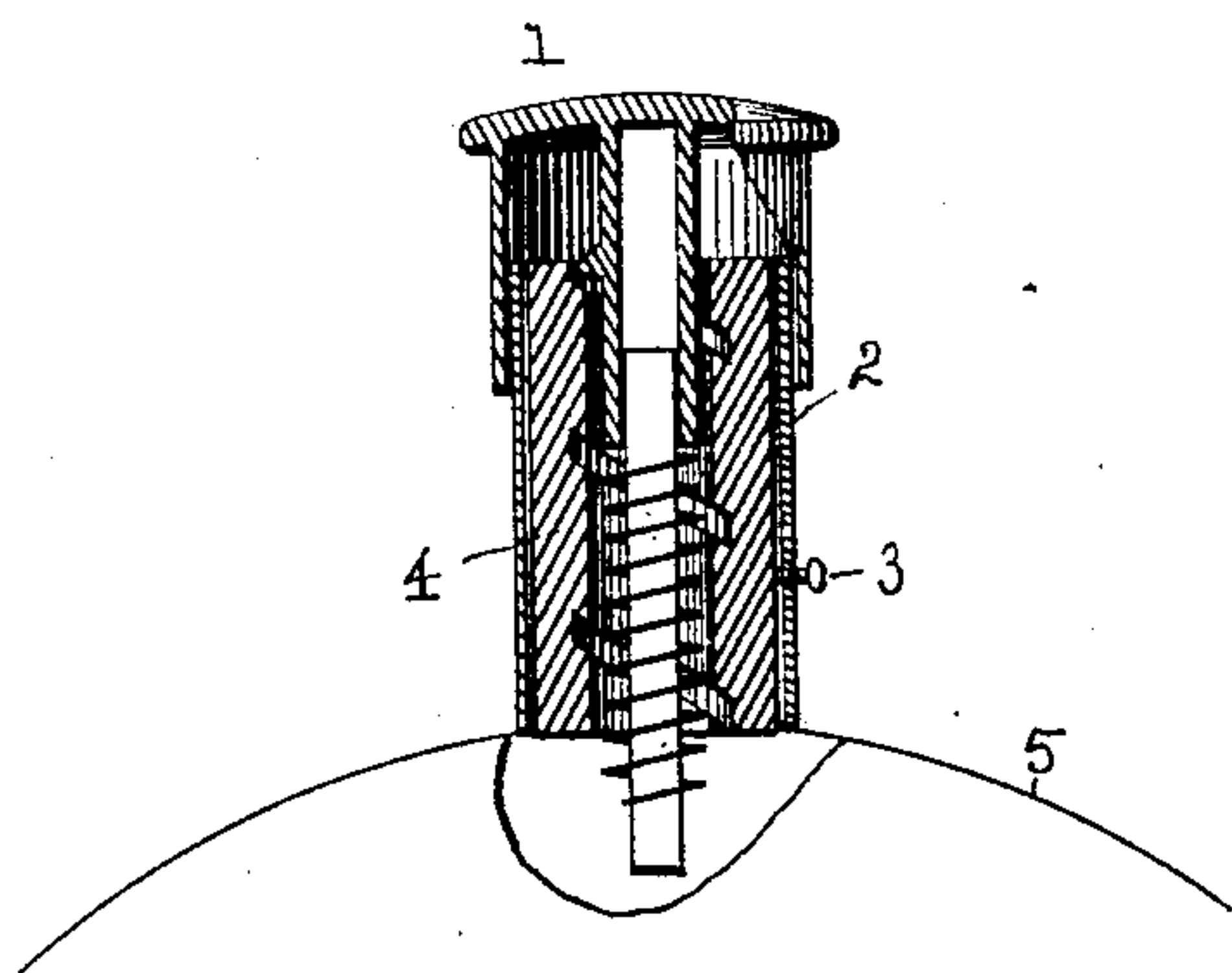


Fig. 2.

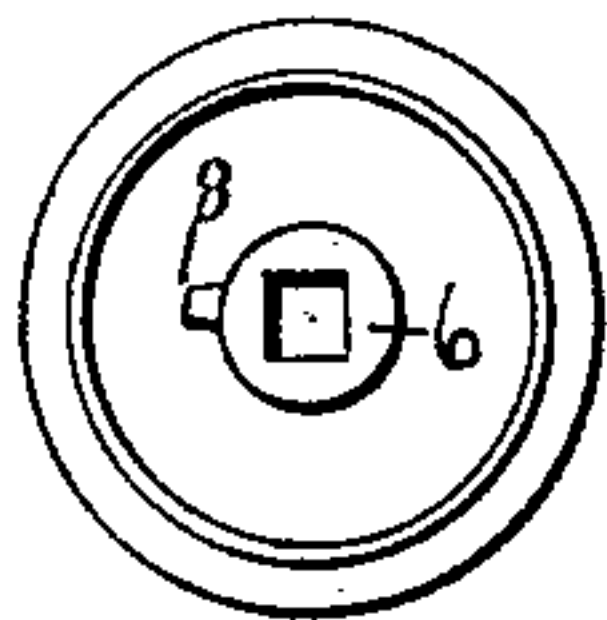


Fig. 3.



Witnesses

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STEM-WINDING WATCH.

SPECIFICATION forming part of Letters Patent No. 418,401, dated December 31, 1889.

Application filed March 27, 1889. Serial No. 305,047. (No model.)

To all whom it may concern:

Be it known that I, JOHN JOS. CROUGHIN, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Stem-Winding Watches; and I do hereby 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.

The object of the invention is to provide a device whereby a watch can be wound by simple pressure on the crown of the stem-winder mechanism; and it consists in the construction hereinafter described and pointed out.

In the accompanying drawings, Figure 1 is a sectional view, a part of the watch-case being broken away and the usual inner works omitted. Fig. 2 is a bottom view of the crown, and Fig. 3 is an end view of the stem.

The pendant 2, attached to the case 5, is secured to or connected with an internally-screw-threaded cylinder 4, which is held in position by a thumb-nut 3. The crown 1 is provided with a socket 6, shaped to fit an angular stem 7. The socket 6 is provided externally with a projection 8, adapted to travel in the internal screw-thread or groove of cylinder 4. A spring is coiled around the stem and made to bear against the bottom of the socket, and is also provided with a bearing at its other end in any usual or convenient manner. The crown, or an extension thereof, is made to embrace the pendant in the manner represented.

The stem 7 has the usual connection with the winding mechanism proper (not shown) and also with the case, and the operation of the device is as follows: Pressure upon the crown compresses the spring and simultaneously forces the socket down about the stem, the projection 8 being guided and forced to

travel in the screw-thread of the cylinder. This turns the socket and stem to wind the watch, as will readily be understood. On removing pressure from the crown it is raised by the expansion of the spring and is in readiness for a repetition of the operation, it being understood that the usual ratchet is provided to permit the free backward movement of the stem. Thus it will be seen that every pressure of the thumb or fingers upon the crown in the direction of its axis will act to wind the watch. The operation of opening the case in the customary manner—that is, by pressure on the crown—practically winds the watch. The same mechanism can also be used by rotating the crown in the customary manner. The thumb-nut or set-screw can be loosened when desired to open the case without winding the watch, as might happen when it was fully wound.

The utility of the device will be readily understood. It is especially applicable to that class of watches that are usually wound to run less than twenty-four hours, though it is generally applicable.

Having thus described my invention, what I desire to secure by Letters Patent is as follows:

1. In a stem-winding watch, and in combination with the crown, an internally and helically grooved cylinder, and a stem provided with a projection adapted to be moved in the groove, substantially as described.

2. In a stem-winding watch, and in combination with the crown, an internally and helically grooved cylinder, a stem provided with a projection adapted to be moved in the groove, the pendant, and a set-screw passing through the pendant and engaging the cylinder, substantially as described.

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Witnesses:

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