

W. P. HILLICK.  
Winding-Arbor for Stem-Winding Watches.  
No. 225,220. Patented Mar. 9, 1880.

FIG. 1.

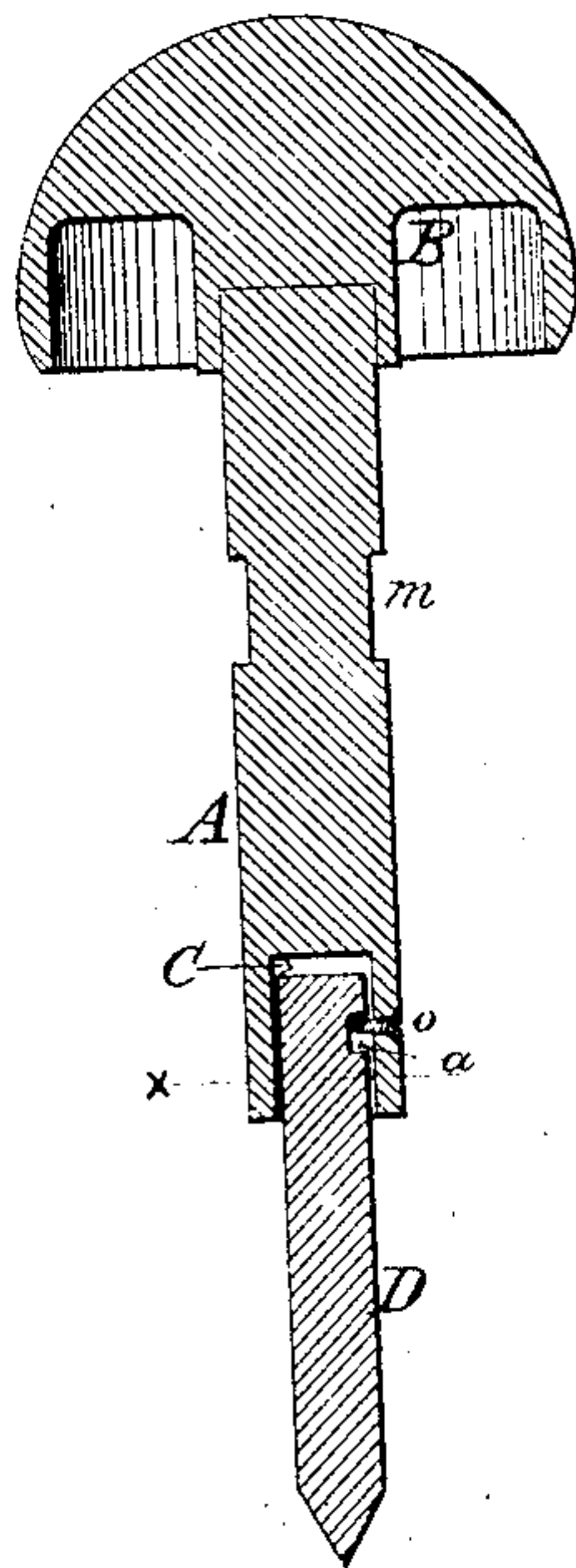


FIG. 2.

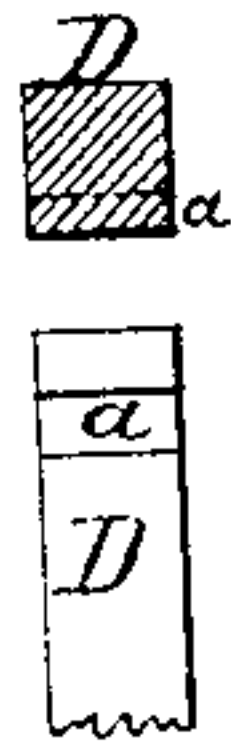
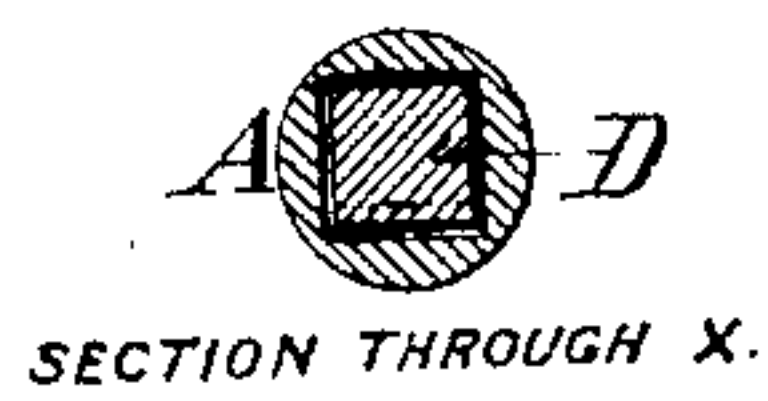


FIG. 3.



WITNESSES:

Norman Hine  
Geo. F. Hine

INVENTOR:

William P. Hillick  
By C. M. Smith  
Attorney

# UNITED STATES PATENT OFFICE.

WILLIAM P. HILLOCK, OF FULTON, NEW YORK.

## WINDING-ARBOR FOR STEM-WINDING WATCHES.

SPECIFICATION forming part of Letters Patent No. 225,220, dated March 9, 1880.

Application filed January 26, 1880.

To all whom it may concern:

Be it known that I, WILLIAM P. HILLOCK, of Fulton, in the county of Oswego and State of New York, have invented a new and useful Improvement in Stem-Winding Watches, of which the following is a specification, reference being had to the annexed drawings, in which—

Figure 1 represents a longitudinal section.  
Fig. 2 represents a top-plan view of the arbor.  
Fig. 3 represents a cross-section on line *x*.

My invention consists of a new push-pin and winding-arbor so constructed as to be readily adapted to the different styles of stem-winding watches, some of which are made with simply a socket to receive the winding-arbor and others with a fixed arbor.

I am aware that push-pins with arbors attached rigidly to them, or made all in one piece, have been heretofore used; but the use of such is limited to watches made with a socket to receive the arbor.

A is the push-pin, fitted in any ordinary manner into the hub in the head-piece B. It is made round, with a groove, *m*, around it, to receive the inner end of the stem-screw which holds the push-pin in place.

The other end of the pin A is made with a square socket, C, of any desired depth. A screw-threaded hole is made near this end of the push-pin, into which the set-screw *o* is fitted. This hole should be near the center of one of the square sides of the socket C. This socket is designed to receive one end of the removable winding-arbor D. This winding-arbor is made of a square piece of metal of proper length, and of such size as to fit into the socket C. Across one side of this arbor, near the inner end, a transverse groove or slot is cut about one-half way through.

The outer end of the arbor is beveled off slightly. The transverse slot *a* is so located that when the arbor is inserted in the socket C the slot will receive the point of the set-screw *o*, which, when screwed down, will hold the arbor in place in the socket and prevent its being withdrawn. This slot *a* is made wider than just what is needed to simply receive the end of the set-screw, because the case-spring of a hunting-watch is usually operated to open the case by pressure upon the

push-pin; and to allow this endwise movement of the push-pin independent of the arbor this slot is widened.

In a watch made with a socket to receive the arbor the whole of my push-pin and winding-arbor is used, being inserted through the usual hole in the stem of the case, the arbor fitting into the socket in the movement, and the whole held in place by a set-screw through the stem in the usual manner, fitting into slot *m*; and in a watch made with a fixed winding-arbor I remove my removable arbor and insert the socketed push-pin, the fixed arbor fitting into the socket C.

In this manner my push-pin and removable winding-arbor can, at pleasure, be used in either style of stem-winding watches, and a jeweler is only obliged to keep on hand one kind of cases, while a different style of case is now required for each of the two kinds of stem-winding movements.

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

1. The above-described push-pin A, constructed with the socket C in its inner end, and provided with the set-screw *o*, extending into the socket, substantially as set forth.

2. In a stem-winding watch, the removable winding-arbor D, fitting into the socket C in the push-pin A, and provided with a transverse slot, *a*, made wider than the point of the set-screw *o* to allow the endwise movement of the push-pin independent of the arbor, constructed as above described.

3. In a stem-winding watch, the combination, with the winding mechanism, of the push-pin A, with the socket C in its lower end, and provided with a set-screw, *o*, and the removable winding-arbor D, constructed to fit at one end into the socket C and at the other into the winding mechanism, and provided with the slot *a* to receive the set-screw *o*, when constructed and operating together substantially as above specified.

In witness whereof I have hereunto set my hand.

W. P. HILLOCK.

In presence of—

C. W. SMITH,

GEORGE BEADLE.