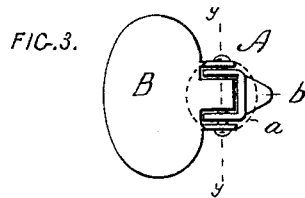
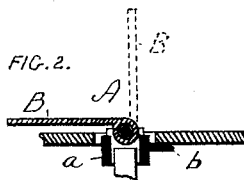
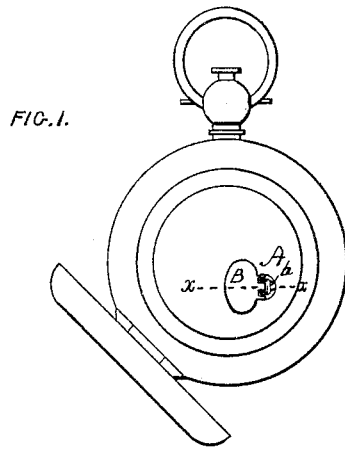


W. H. ZINN.
 Watch-Winding-Device.

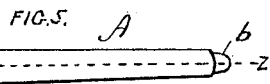
No. 209,441.

Patented Oct. 29, 1878.



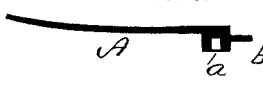
WITNESSES.

Geo. H. Carl
Chas. E. Hibbard



INVENTOR.

W. H. Zinn
Per Brown Bros
 Attorneys



UNITED STATES PATENT OFFICE.

WILLIAM H. ZINN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN WATCH-WINDING DEVICES.

Specification forming part of Letters Patent No. **209,411**, dated October 29, 1878; application filed April 8, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. ZINN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Watch-Winding Devices, of which the following is a full, clear, and exact description:

This invention relates to an attachment for the winding-spindle of a watch, which, when applied thereto, forms a portion of the watch and enables it to be wound without the necessity of a separate key, specimens of which attachment are illustrated by the Letters Patent of the United States issued to me dated September 25, 1877, No. 195,687, and to William H. Bracy, dated April 17, 1877, No. 189,600.

This invention consists in the construction of such attachments to set under the cap-plate in such manner that while they can, when desired, be readily attached to and detached from the winding-spindle, they are, when attached, secure against accidental displacement or escape, all substantially as hereinafter described.

In the accompanying plate of drawings, Figure 1 is a face view of the back cap-plate with my improved attachment applied to the winding-spindle. Fig. 2 is a partial section on line *x x* of Fig. 1, enlarged; Fig. 3, a plan view, on enlarged scale, of the winding attachment detached from the watch; Fig. 4, a section on line *y y*, Fig. 3.

In the drawings, A represents a winding attachment for watches having my improved construction.

The attachment, as shown, is constructed of an arm, B, hinged to one end of a tube, *a*,

which is adapted to fit the square end of the winding-spindle of a watch, and on one side it has a lip, *b*, which projects therefrom sufficiently to set under and lie in contact with the inner side of the back cap-plate of the watch, (see Fig. 2 more particularly,) which obviously interlocks the attachment with said cap-plate and secures it against accidental displacement or escape, and in such manner as not to obstruct to any practical extent the ready attachment and detachment of the winding device.

The watch is wound by turning the watch-spindle with the arm B, which for such purpose is swung up from its position upon the cap-plate.

In attaching this winding device to a watch, the cap-plate being first lifted, the lip *b* is then put under the edge of the opening in the cap-plate surrounding the winding-spindle, and then the tube pressed into its position on the winding-spindle, and the cap-plate closed and fastened in the usual manner.

In Figs. 5 and 6 are views showing the lip *a'* applied to the watch-winding device for which the Letters Patent aforesaid were issued to me.

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

In attachments for winding watches having a tube, *a*, to fit the winding-spindle, the combination of a lip with the tube, substantially as and for the purpose described.

WM. H. ZINN.

Witnesses:

EDWIN W. BROWN,
GEO. H. EARL.