

S & J. J. Jaccard. Stem Winding Watch.

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Fig. 1.

PATENTED AUG 8 1871

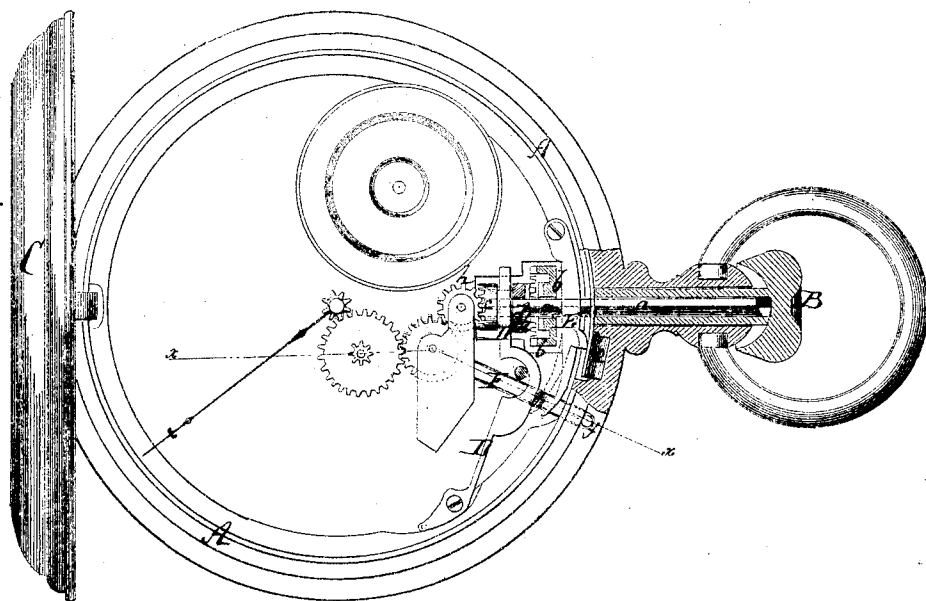
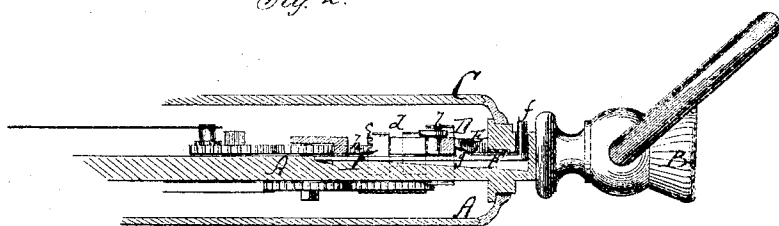


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

SAMUEL JACCARD AND JUSTIN JACCARD JAQUES, OF ST. CROIX, SWITZERLAND,
ASSIGNORS TO D. CONSTANT JACCARD, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN STEM-WINDING WATCHES.

Specification forming part of Letters Patent No. 117,782, dated August 8, 1871.

To all whom it may concern:

Be it known that we, SAMUEL JACCARD and JUSTIN JACCARD JAQUES, of St. Croix, canton de Vaud, Switzerland, have invented a new and Improved Stem-Winding Watch; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 represents a face view of our improved watch. Fig. 2 is a transverse section of the same taken on the plane of the line X X, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new stem-winding and setting watch of that kind in which, by pressure against the stem the setting, and by the closing of the case the winding-attachment is thrown into gear. Our invention consists in improving stem-winding watches, as hereinafter fully described and subsequently pointed out in the claim.

A in the drawing represents the watch-case. B is the stem of the same, fitted upon a squared arbor, *a*, on which it has a short longitudinal play. *c* is the spring-clutch for holding the lid of the case closed, it being operated by the sliding stem to open the said lid in the ordinary manner. The arbor *a* carries a loose crown-wheel, *b*, which is in gear with the winding, and another loose toothed wheel, *e*, to be thrown in gear with the setting apparatus. A sliding clutch, *d*, on which the wheel *c* is secured, is fitted upon the arbor *a*, and serves either to throw the wheel *b* into gear or to throw the wheel *e* against the wheel *h* of the setting mechanism. D is a spring-lever secured to the watch-case, and connected with the clutch *d* so as to hold the same against the wheel *b*. E is a lever pivoted to the case, and interposed between the catch *e* and the lever D. F is a spring-lever fitted under D and provided with a pin, *f*, that projects through the

rim of the case, as shown. The lever F is also provided with a projecting shoulder, *g*, as in Fig. 2.

The apparatus operates as follows: When the watch is closed the spring-clutch *d*—it becoming a spring-clutch by its connection with the lever D—is held against the wheel *b* so that the watch may be wound up. In fact, as long as the watch is closed its hands cannot be set. When the watch is opened a strong push against the stem will throw the lever E against D, causing the same to carry the clutch off the wheel *b* and to hold the wheel *e* against *h*. This motion carries the lever D over the shoulder *g*, when the lever F will spring up to bring the said shoulder against the back edge of the lever D. The latter lever is thereby locked so as to retain the setting apparatus in gear with the stem. When the watch is closed the lid will strike upon the pin *f* and will thereby clear the lever D of the shoulder *g*, allowing said lever to spring back and throw the clutch in gear with the winding apparatus.

It will be seen that the apparatus operates to a great extent automatically—*i. e.*, with the opening or closing of the lid. We are, however, aware that similar devices have already been in use, and do not claim as our invention the lever D, nor the clutch or wheels *b e*; nor do we claim the projecting pin *f* for throwing the winding apparatus in gear by the closing lid; nor the application of the sliding stem for throwing the setting apparatus in gear; but

What we do claim, and desire to secure by Letters Patent, is—

The combination of the lever E with the catch *e* and spring-lever D, to operate by the action of the sliding stem, substantially as herein shown and described.

SAMUEL JACCARD.

JUSTIN JACCARD JAQUES.

Witnesses:

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