G. A. BEIDLER.

Ratchet Watch-Key.

No. 160,867. Patented March 16, 1875.

Fig. 1.

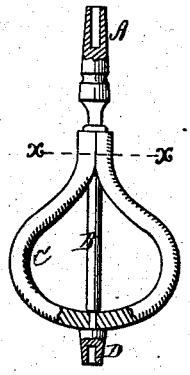

Fig. 2.

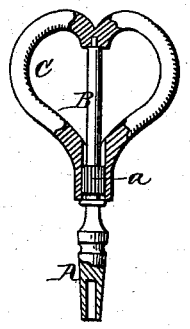

Fig. 3.

Fig. 4.

Fig. 5.

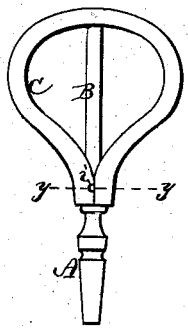

Fig. 6.

WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE A. BEIDLER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN RATCHET WATCH-KEYS.

Specification forming part of Letters Patent No. **160,867**, dated March 16, 1875; application filed February 25, 1875.

To all whom it may concern:

Be it known that I, GEORGE A. BEIDLER, of Philadelphia, in the county of Philadelphia and in the State of Pennsylvania, have invented certain new and useful Improvements in Ratchet Watch-Keys; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to that class of watch-keys which are provided with ratchets to ob viate the necessity of taking out and putting in the key several times during the operation of winding the watch; and the nature of my invention consists in the construction of the bow or handle of the key so that the natural spring of the metal of which it is made, in connection with a wheel or pin on the barrel-stem, forms the required ratchet. It also consists in the construction and combination of parts as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of a watch-key, with two barrels, embodying my invention. Fig. 2 is a view of a single-barreled key. Fig. 3 is a view of the barrel-stem. Fig. 4 is a section through the line *x x*, Fig. 1. Figs. 5 and 6 show a modification of my invention.

A represents an ordinary watch-key barrel provided with a stem, B, of suitable length. On this stem, at a suitable point above the barrel, is formed or secured a toothed wheel or pinion, *a*, of suitable dimensions. C represents the bow or handle made of a rod or bar of steel or other suitable material, and bent in any desired form. The ends of the bow C are spread and curved to form lips *b b*, or separate lips may be attached to the ends of the bow, if desired. These lips are to grasp the toothed wheel or pinion *a*, as shown in Fig. 4. The end of the stem B is either passed through the center of the bow, and another barrel, D, fastened at its end, as shown in Fig. 1, or swiveled, by riveting or otherwise, in the center of the bow, as shown in Fig. 2. The spring of the bow C holds the lips *b* tightly around the toothed wheel or pinion *a*, and completes the ratchet-connection between the bow or handle and the barrel-stem. In place of the pinion *a* I may use one or more pins, *i*, as shown in Figs. 5 and 6, the ends of said pin being beveled, which will act in precisely the same manner.

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

The spring bow or handle C, provided with tips *b b*, in combination with the ratchet-wheel *a* on the key-stem B, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 23th day of February, 1875.

G. A. BEIDLER.

Witnesses:

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