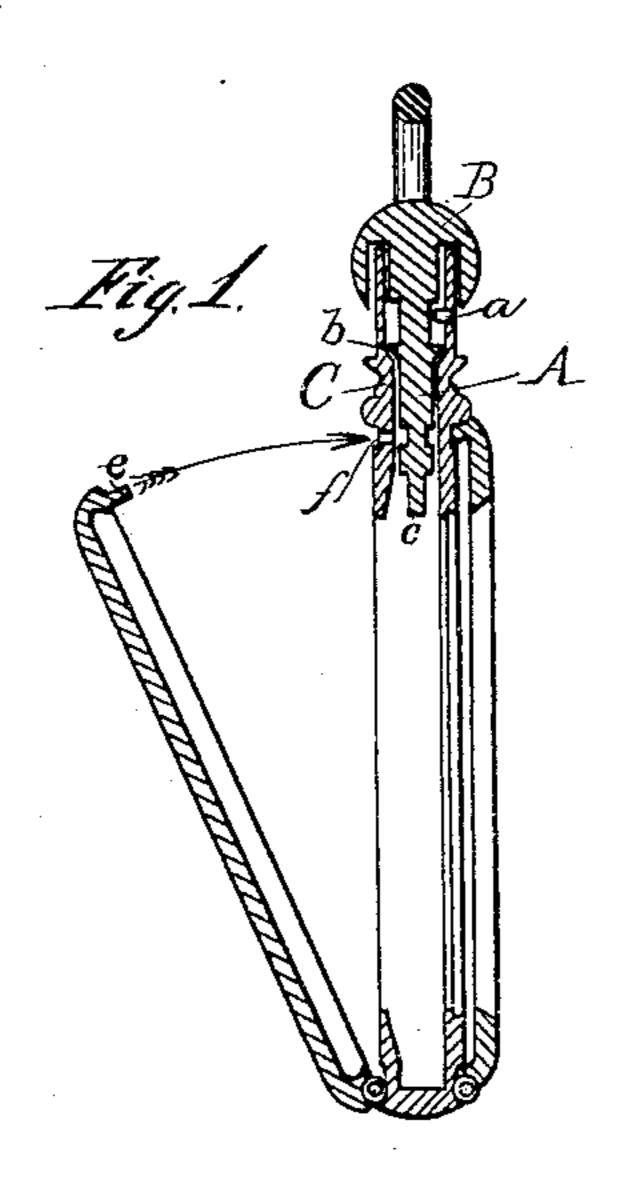
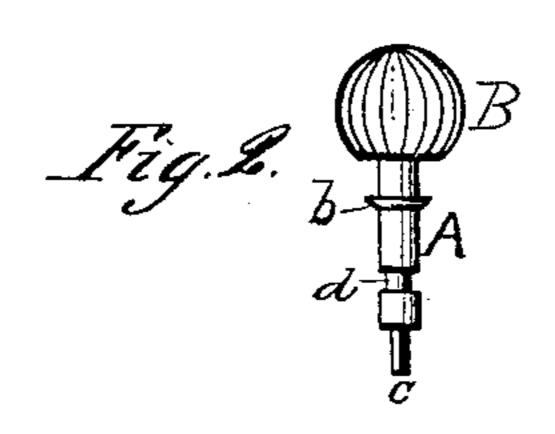
F. BLAUER.

Stem-Winding Attachment for Watches.

No. 230,995.

Patented Aug. 10, 1880.





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D. 5

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per

Mm. 26. 2013,

Attorney.

United States Patent Office.

STEM-WINDING ATTACHMENT FOR WATCHES.

SPECIFICATION forming part of Letters Patent No. 230,995, dated August 10, 1880. Application filed February 16, 1880.

To all whom it may concern:

Be it known that I, Fredrick Blauer, of Chicago, in the county of Cook and State of Illinois, have invented a certain new and use-5 ful Improvement in Stem-Winding Attachments for Watches, of which the following is

a specification.

The object I have in view is to produce a stem-winding attachment for watches which 10 will be simple and strong and not liable to get out of order, can be readily connected with or disconnected from the movement, and can be applied to movements having either a male or female coupling for receiving the stem; and 15 my invention therein consists in the combination of the parts, as pointed out by the claim.

In the accompanying drawings, forming a part hereof, Figure 1 is a section of a watchcase having my improved stem-winding at-20 tachment, and Fig. 2 a separate elevation of

the stem and crown.

The stem A of the watch is connected with the crown B, which crown is of the usual construction and covers the end of the pendant 25 C. The stem has a sliding movement in the pendant, which is limited by a screw, a, turned through the pendant above a collar, b, on the stem, preventing the withdrawal of the stem from the pendant until said screw is loosened. 30 The stem projects into the case of the watch, where it is provided with a squared end, c, or a socket to engage with a socket or stud in the movement for winding the same. After the movement is put in the case the stem is 35 pushed forward to couple with the same, and is drawn backward when it is desired to remove the movement for any purpose.

To hold the stem forward in connection with the movement it is provided with an annular groove, d, near its inner end, with which en- 40 gages a pin, e, on either the back or front cover of the case. When such cover is closed the pin e passes through a hole, f, in the rim of the case, with which hole the groove d coincides when the stem is pushed in.

When the cover carrying the pin e is open the stem can be drawn back and the move-

ment taken out.

The watch is wound up by simply turning the crown. If this attachment were applied 50 to watches having cases with seamless backs the pin e would be on the front cover.

The advantages arising from the simplicity, strength, and convenience of my device will be readily understood without further explana- 55 tion.

What I claim as my invention is—

In a stem-winding attachment for watches, the sliding and revolving stem, held forward in connection with the movement by a pin on 60. the cover, and adapted to be moved back and forth out of and into connection with the movement when the cover is open, in combination with a screw in the pendant, which allows the stem to be moved out of and into connection 65 with the movement, but prevents its withdrawal from the pendant, substantially as described and shown.

FREDRICK BLAUER.

Witnesses: RICHD. N. DYER, OLIVER W. MARBLE.