C. C. SMITH.

DEVICE FOR WINDING WATCHES.

APPLICATION FILED JULY 26, 1918.

1,294,552. Patented Feb. 18, 1919.

FIG. 1.

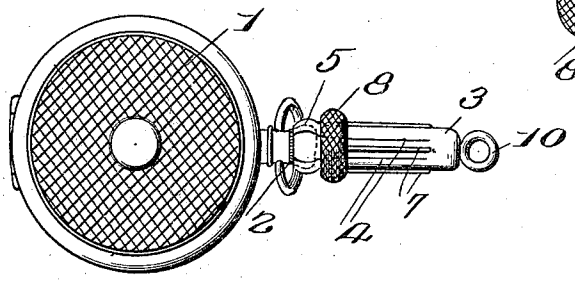


FIG. 6.

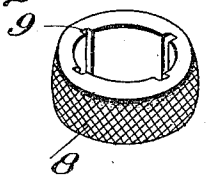


FIG. 2.

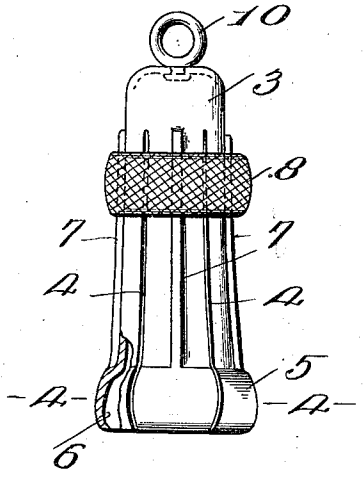


FIG. 3.

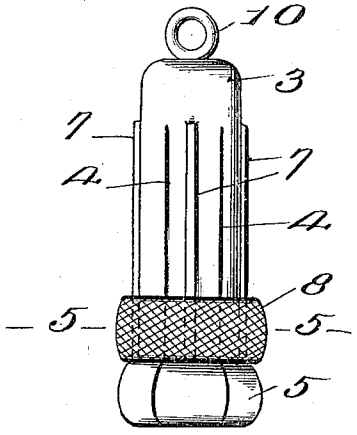


FIG. 4.

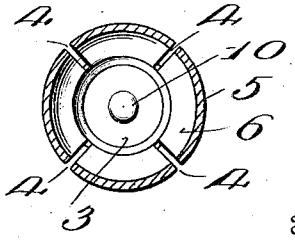
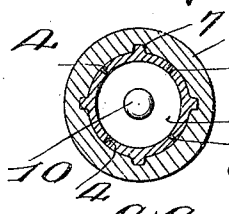


FIG. 5.



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DEVICE FOR WINDING WATCHES.

1,294,552. Specification of Letters Patent. Patented Feb. 18, 1919.

Application filed July 26, 1918. Serial No. 246,383.

To all whom it may concern:

Be it known that I, CHRISTOPHER C. SMITH, a citizen of the United States, residing at Eugene, in the county of Lane and State of Oregon, have invented certain new and useful Improvements in Devices for Winding Watches, of which the following is a specification.

The object of this invention is to provide a simple and efficient device by the use of which watches may be readily wound notwithstanding that the corrugations on the head of the stem are badly worn, or that the fingers of the person winding the watch may happen to be cut or sore. The invention seeks to provide a device which may be easily fitted over the head of the watch stem and firmly engage therewith so that upon turning of the device the watch will be wound.

The invention is illustrated in the accompanying drawings and consists in certain novel features which will be particularly pointed out in the claim following the description.

In the drawings:

Figure 1 is a plan view of a watch showing my improved device in position thereon;

Fig. 2 is an enlarged elevation, partly broken away, of the improved device showing the parts in the position assumed when the device is not engaged over a watch stem;

Fig. 3 is an elevation showing the parts in the positions assumed when the watch stem is engaged;

Fig. 4 is a detail section on the line 4—4 of Fig. 2;

Fig. 5 is a detail section on the line 5—5 of Fig. 3;

Fig. 6 is a detail perspective view of the compression ring.

In the drawings, the reference numeral 1 indicates a watch of the usual form provided with a winding stem 2. In carrying out my invention, I employ a tube having one end 3 closed and its opposite end open while longitudinal slits 4 are formed in the circumferential wall of the tube and extend from a point near the closed end thereof through the open end of the same, as clearly shown. At its open end the tube is expanded to provide the enlargement 5 having a concave inner surface, as shown at 6, whereby it may readily fit around the head of the watch stem, as shown in Fig. 1. The said inner concave surface 6 is preferably corrugated so as to most efficiently engage the corrugated head of the watch stem. Upon the outer surface of the circumferential wall of the tube, I provide the longitudinal ribs 7 which are disposed alternately with the slits 4 and serve as guides for the compression ring 8 which is provided on its inner surface with longitudinal grooves 9 adapted to engage the said ribs. The outer surface of the compression ring 8 will preferably be knurled or milled so that it may be readily grasped and manipulated. In the closed end of the tube, I secure an eye or ring 10 whereby the device may be hung upon a watch chain and utilized as a charm.

It is thought the use of the device will be readily understood. When a watch is to be wound, the open end of the tube is engaged over the head of the watch stem and the compression ring 8 then pushed toward the said open end, it being understood that a spring temper will be imparted to the material of the tube so that the several longitudinal tongues or sections resulting from the provision of the slits 4 will tend to separate or expand, as shown in Fig. 2. When the ring 8, therefore, is pushed toward the open end of the tube to the position shown in Fig. 3, the jaws provided by the expanded or enlarged portions 5 will be forced into close engagement with the head of the watch stem and will be clamped thereon so that if the tube be rotated the stem will follow the movement and the watch will be wound. When the watch has been wound, the compression ring is withdrawn to the upper ends of the ribs 7, as shown in Fig. 2, whereupon the tongues will separate and the device may be withdrawn from the watch stem.

The device is exceedingly simple in its construction and it will be found efficient in operation. It is not apt to get out of order and may be constructed of any preferred material and ornamented to a greater or less extent. By the use of the device a watch may be easily wound after the corrugations on the head of the stem have been badly worn or when the owner of the watch may happen to have sore or cut fingers and wrist watches may be wound by the use of this device without being removed from the wrist. The device furnishes a larger and,

therefore, firmer hold upon the winding member of the watch so that overwinding of the watch is easily avoided.

Having thus described my invention, what is claimed as new is:

A device for the purpose set forth comprising a tube closed at one end and open at the opposite end and having longitudinal slits extending from points near its closed end through its open end, the tube being further provided with external longitudinal ribs alternating with said slits and having an internal seat for a watch stem at its open end, and a ring encircling the tube and slidable longitudinally thereof and provided with internal grooves engaging the ribs on the tube whereby rotation of the ring will effect rotation of the tube and the watch stem engaged thereby.

In testimony whereof I affix my signature.

CHRISTOPHER C. SMITH. [L S.]

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."