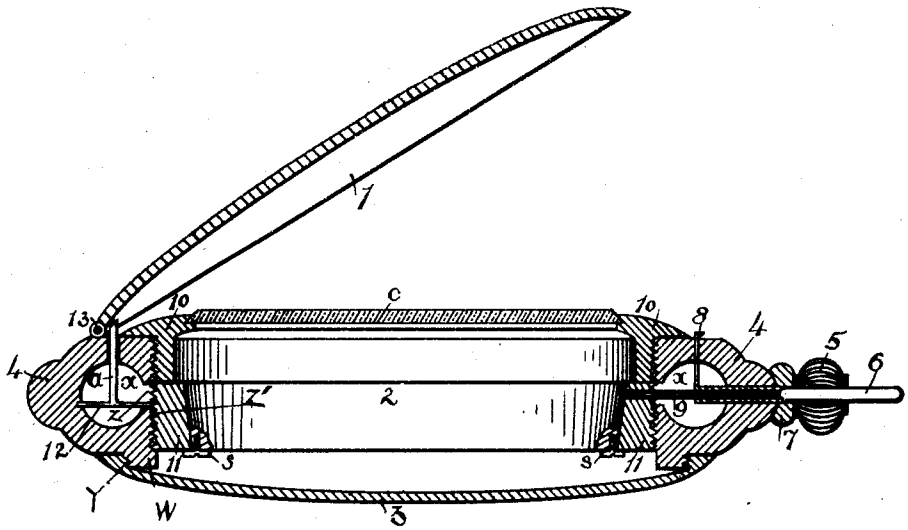
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H. P. HARDY.

WATCHCASE.

APPLICATION FILED NOV. 19, 1901.

Fig 1



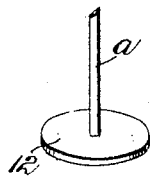


Fig. 2.

WITNESSES.

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No. 780,287. Patented January 17, 1905.

UNITED STATES PATENT OFFICE.

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WATCHCASE.

SPECIFICATION forming part of Letters Patent No. 780,287, dated January 17, 1905.

Application filed November 19, 1901. Serial No. 82,901.

To all whom it may concern:

Be it known that I, HARRY P. HARDY, residing at Missouri Valley, in the county of Harrison and State of Iowa, have invented certain useful Improvements in Watchcases; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to improvements in watchcases, and has for its object to provide a case so constructed that the bezel and the rear cap will be secured to the case proper in such manner as to form an absolutely dust-tight union and also to provide a watchcase embodying in its construction an improved form of case-spring for opening the front cover when the usual locking means are released.

With this general object in view and others which will appear as the nature of the improvements is better understood the invention consists, substantially, in the novel construction, combination, and arrangement of parts, which will be hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the appended claim.

In the drawings, Figure 1 is a transverse sectional view of a watchcase, embodying the herein-described improvements. Fig. 2 is a detail perspective view, on an enlarged scale, of the case-spring.

Referring to the drawings, the numeral 4 designates the watchcase-center, which latter is provided with an annular opening *x*. At one point within this opening is arranged a disk 12, from which extends a shank *a* through the front surface of the case-center and projecting slightly beyond the latter, the disk 12 and the shank *a* constituting a case-spring.

Secured to the case-center 4 and at a suitable point therein through the medium of a hinge 13 is the front cover 1, which when closed engages the shank *a* to force the same inwardly, and thus depress the disk 12. When, therefore, the catch 8, which is of usual construction and adapted to engage the front cover 1 in the usual manner, is released, the cover 1 will open under the influence of the spring-disk 12 in the usual manner.

Interiorly the case-center 4 is provided with a screw-thread, as shown at *z*, and a second thread *y* is arranged at the exterior edge of an annular projection W. Fitting into the case-center 4 is a screw-threaded ring 2, to which ring, through the medium of springs S, is secured the plate holding the watch-movement. This ring 2 is approximately slightly more than half the depth or thickness of the case-center, and threaded upon and occupying the remainder of the thickness of the case-center 4 is a bezel 10, adapted to form a dust-tight connection, said bezel being provided with the usual crystal *c*. Arranged upon the projection W and engaging the screw-threads *y* thereof is a back cover 3, adapted to exclude dust from the rear of the case.

If desired, the case-center 4 might be threaded its full interior diameter in order to permit the back cover 3 fitting into and engaging the thread *z*, and thus interposing the ring 2 between the bezel and the rear cover.

The works may be wound by the usual instrumentalities.

The bezel 10 fits into the case-center a sufficient distance to be screwed down upon the ring 2, thus affording a thoroughly dust-tight connection between these two members, and said bezel is also flanged in order to overlap the case-center 4.

It will of course be understood that should the same be desired the watch-movement might be inclosed within a dust-tight receptacle and then placed within the supporting-ring 2.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

In a watchcase, the combination with a case-center provided with an annular opening, and a front cover hinged to said center, of a

spring-disk secured within the annular opening of the case-center at a point adjacent to the hinge of said cover, a shank extending from said disk and through the case-center to engage the front cover for opening the latter, said disk and shank constituting a case-spring, and means for locking the cover in closed position against the tension of the case-spring.

HARRY P. HARDY.

In presence of—
W. J. BURKE,
W. R. COX.