(No Model.) 2 Sheets—Sheet 1.

C. F. MORRILL.

WATCH CASE.

No. 372,558. Patented Nov. 1, 1887.

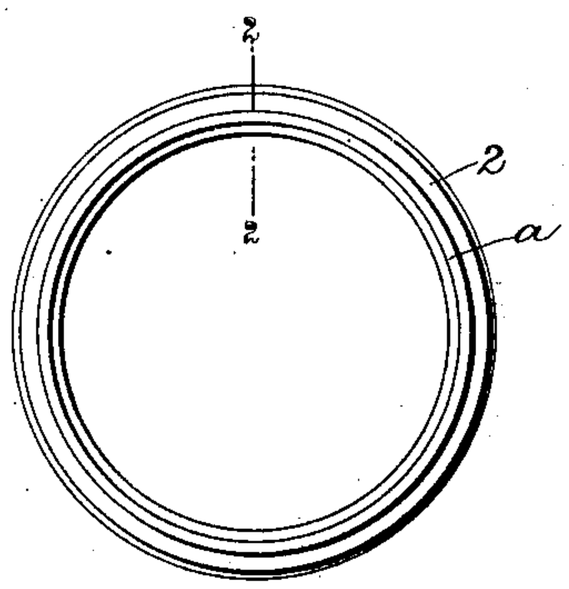


Fig. 1.

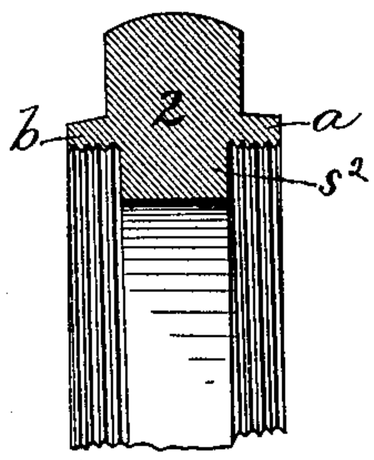
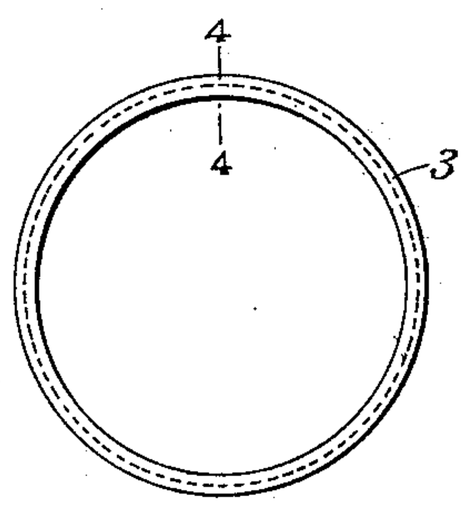


Fig. 2.



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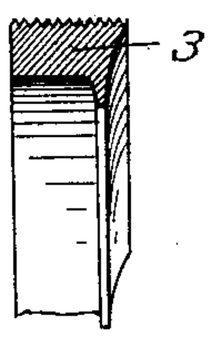

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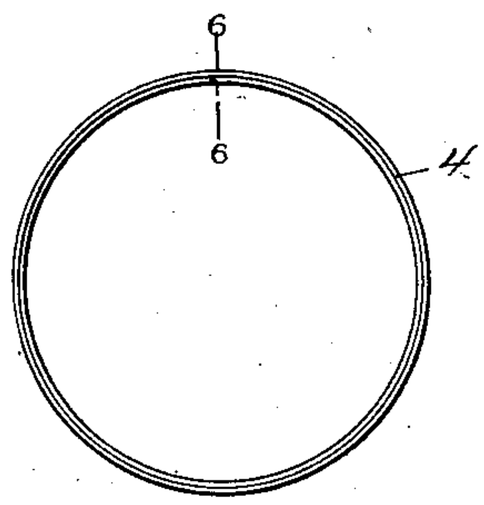

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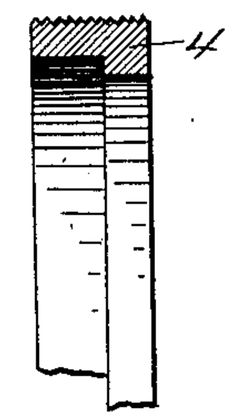

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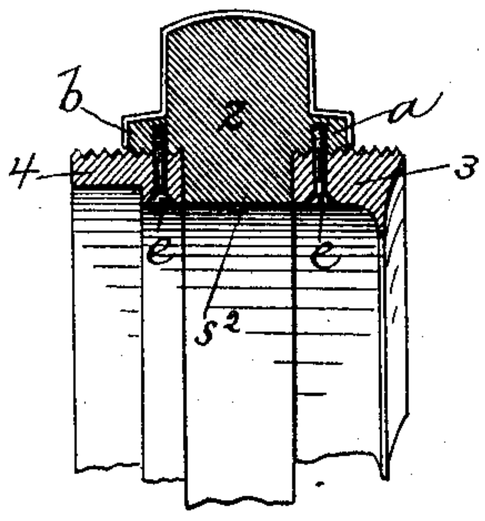

Fig. 7.

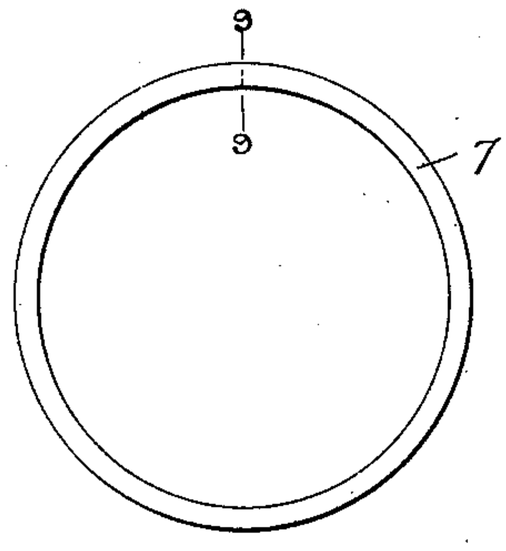

Fig. 8.

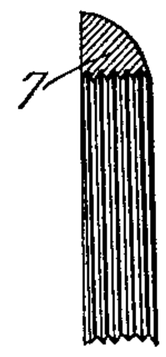

Fig. 9.

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W. C. Ramsay.

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(No Model.) 2 Sheets—Sheet 2.

C. F. MORRILL.

WATCH CASE.

No. 372,558. Patented Nov. 1, 1887.

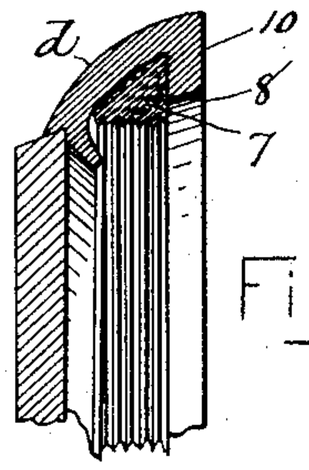

Fig. 10.

Fig. 11.

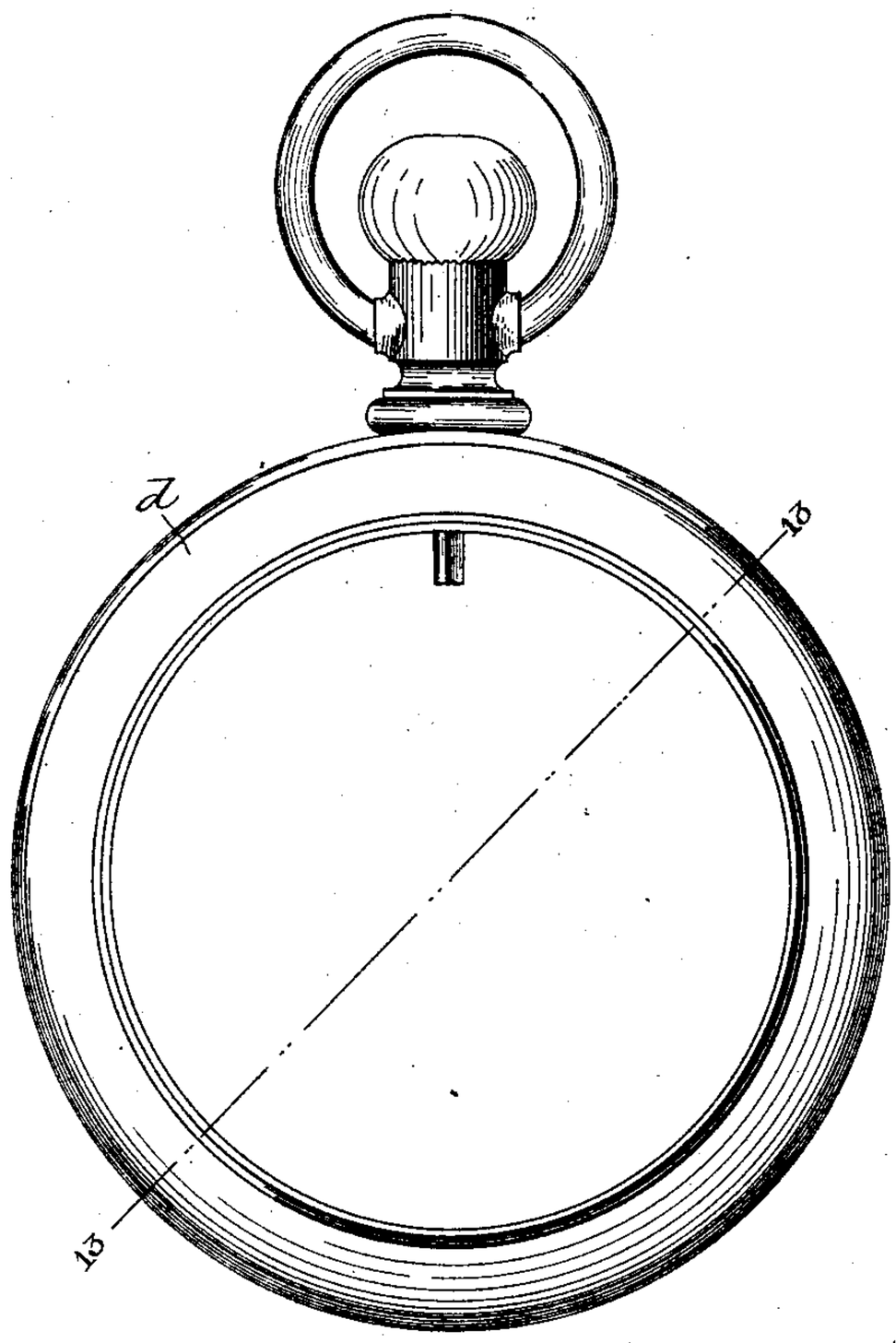

Fig. 12.

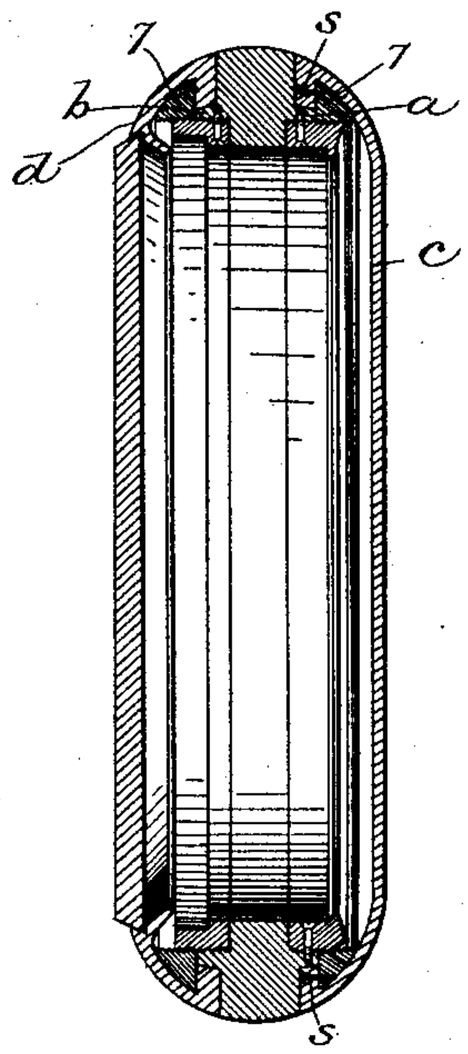

Fig. 13.

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UNITED STATES PATENT OFFICE.

CHARLES F. MORRILL, OF BOSTON, MASSACHUSETTS.

WATCH-CASE.

SPECIFICATION forming part of Letters Patent No. 372,553, dated November 1, 1887.

Application filed May 7, 1887. Serial No. 237,424. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. MORRILL, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Watch-Cases, of which the following is a specification.

This invention relates to watch-cases in which the back, bezel, and like separable parts are connected by screw-threads with the case-center; and it consists in certain improvements, hereinafter described, in the construction of this class of cases.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a portion of the center of my improved case. Fig. 2 represents an enlarged section on line 2 2, Fig. 1. Fig. 3 represents a side elevation of the ring which constitutes the threaded shoulder engaging the case-back. Fig. 4 represents a section on line 4 4, Fig. 3. Fig. 5 represents a side view of the ring which constitutes the threaded shoulder engaging the bezel. Fig. 6 represents a section on line 6 6, Fig. 5. Fig. 7 represents a section of the three parts shown in the preceding figures connected and forming the case-center. Fig. 8 represents a side view of the core or ring which is applied to the back or bezel. Fig. 9 represents a section on line 9 9, Fig. 8. Fig. 10 represents a sectional view of a portion of the bezel. Fig. 11 represents a sectional view of a portion of the back. Fig. 12 represents a side elevation of the complete case. Fig. 13 represents a section on line 13 13, Fig. 12.

The same letters of reference indicate the same parts in all the figures.

In carrying out my invention I construct the case-center in three general parts, 2 3 4, the part 2 being the central or body portion and having two internally-threaded shoulders or flanges, *a b*, and inwardly-projecting seats s^2 s^2 at the bases of said shoulders. The parts 3 4 are externally-threaded rings adapted to be screwed into the internal threads of the shoulders *a b*, said parts or rings 3 4 being wider than the threaded surfaces of the shoulders *a b*, so that they project outside of said shoulders, as shown in Fig. 7, their outer portions constituting externally-threaded shoulders to engage the internally-threaded portions of the back *c* and bezel *d*, while their inner edges bear against the seats s^2 s^2.

The rings 3 4 are prevented from turning by small screws *e e*, extending through orifices formed in said rings and into threaded orifices in the flanges or shoulders *a b*. (See Fig. 7.) There may be a number of said orifices for each ring, so that either ring may be adjusted, as may be desired, to insure the correct position of the back or bezel when said parts are so engraved or ornamented as to require that certain parts be in line with the pendant. In screw-cases the threads of the back and case-center sometimes become worn, so that eventually the back, when screwed to place, will not have its ornamentation correctly located with reference to the pendant. By making the threaded shoulders of the case-center adjustable, as described, I entirely overcome this objection.

It will be seen that the described construction of the case-center, besides affording the very desirable adjustability of the threaded shoulders above described, also enables said shoulders to be made of a harder metal than that of the main portion 2 of the case-center, thus making the construction more durable; and they have the advantage of being removable from the main portion of the case-center, so that they may be replaced by new rings if their threads become unserviceable from wear. There being two rings, each removable independently, one can be removed without disturbing the other, when only one ring becomes unserviceable.

In further carrying out my invention I provide the bezel *d* with a ring or core, 7, internally threaded and placed in the angle formed within the margin of the bezel, as shown in Fig. 10, the bezel being formed over said ring or core by any suitable means.

The internally-threaded surface of the ring or core 7 is formed to screw onto the threaded exterior of the ring 4 of the case-center. The inwardly-projecting lip or flange 10 of the bezel terminates in a shoulder, 8, which does not extend inwardly so far as the threaded inner surface of the ring or core 7, and is formed to fit closely against the outer side of the flange or shoulder *b* of the case-center, so that the joint between the bezel and case-center is

rendered tight and secure both by the close fit of the shoulder 8 on the flange *b* and by the engagement of the threaded inner surface of the ring or core 7 with the threaded outer surface of the ring 4.

The back *c* is provided with a ring or core, 7, similar in all essential particulars to the core 7 of the bezel and threaded to screw onto the ring *a* of the case-center. The back also has a shoulder, 8, formed to fit closely against the outer surface of the flange *a* of the case-center.

The cores 7 7 may be prevented from turning in the back and bezel by screws *s*, as shown in Fig. 13.

It will be seen that the cores 7 may be adjusted like the rings 3 4 of the case-center, and, like said rings, may be made of a harder material.

My invention is not limited to the conjoint use of the rings 3 4 and cores 7 7, as the threaded portions of the back and bezel may be made integral therewith, as usual, instead of being formed on separate pieces or cores; or the back and bezel, provided with the cores 7 7, may be engaged with screw-threaded shoulders, formed, as usual, on the body of the case-center instead of on separable rings.

It will be seen that the shoulders 8 8 on the back and bezel and the shoulders or flanges *a b* on the case-center, co operating with the shoulders 8 8, hold the back and bezel in place laterally and prevent them from slipping or wabbling edgewise while the screw-threads of the back and bezel are being engaged with those of the case-center.

I claim —

1. A watch-case center composed of a body having an internally-threaded flange or shoulder and an inwardly-projecting seat, as s^2, at the base of said shoulder, and an externally-threaded ring engaged with said internally-threaded shoulder and bearing on the seat s^2, and projecting outside of the threaded shoulder for engagement with a back or bezel, as set forth.

2. A watch-case center composed of a body and two externally-threaded shoulders, as 3 4, secured to said body and independently attachable to and detachable from said body, as set forth.

3. A watch-case center composed of the body having the externally smooth and internally-threaded shoulders or flanges *a b*, the inwardly-projecting seats s^2 s^2, and the externally-threaded rings 3 4, screwed into said shoulders and projecting outside thereof, as set forth.

4. In a watch-case, the center composed of the body having an externally smooth and internally-threaded shoulder or flange, as *a*, and an externally-threaded ring, as 3, combined with a back or bezel having an internal screw-thread adapted to engage with the said externally-threaded ring, and a shoulder, 8, formed to fit the external surface of the shoulder or flange *a*, as set forth.

5. In a watch-case, the center composed of the body having the externally smooth and the internally-threaded shoulders or flanges *a b*, and the externally-threaded rings 3 4, combined with the back *c* and bezel *d*, internally screw-threaded and adapted to engage with said rings, and provided with shoulders 8 8, formed to fit the external surfaces of the shoulders *a b*, as set forth.

6. A watch case back or bezel provided with an annular internally-threaded ring or core, secured to the margin of the back or bezel and bearing against its inner surface, as set forth.

7. A watch-case back or bezel provided with an annular internally-threaded core and with a shoulder, as 8, outside of the threaded surface of said core, as set forth.

8. A watch-case composed of the three-part case-center, constructed as described, and the back and bezel each provided with an internally-threaded core and a shoulder outside of the threaded surface of said core and adapted to engage the case-center, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 5th day of May, A. D. 1887.

CHARLES F. MORRILL.

Witnesses:
C. F. BROWN,
A. D. HARRISON.