

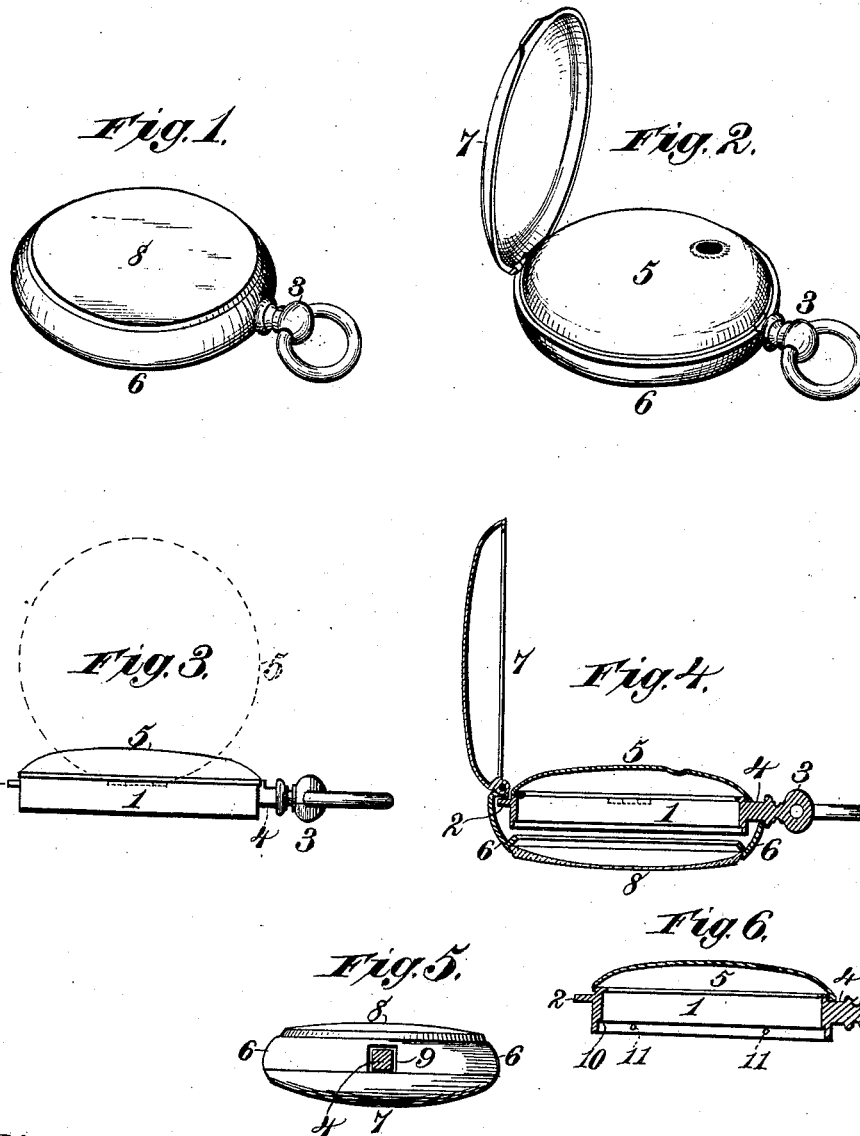
(Model.)

J. FAHYS.

WATCH CASE.

No. 301,440.

Patented July 1, 1884.



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UNITED STATES PATENT OFFICE.

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WATCH-CASE.

SPECIFICATION forming part of Letters Patent No. 301,440, dated July 1, 1884.

Application filed March 19, 1884. (Model.)

To all whom it may concern:

Be it known that I, JOSEPH FAHYS, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Watches, of which the following is a specification.

The removal of the works from the watch-cases heretofore used in order to permit of their inspection requires the removal of several delicate screws by which they are ordinarily secured therein. This operation is tedious, and the removal and replacement of the screws requires considerable nicety and dexterity in manipulation, while at the same time there is risk of the loss or misplacement of the screws. Also, in many forms of watch-cases—notably English lever key-winders—there is scant opportunity for the inspection or exhibition of the contained works, and but little can be seen thereof, even though all the caps be thrown open. At the same time the cases hitherto used have not proven dust-proof, requiring the addition to the frame containing the works of the band encircling them between the front and back plates, termed ordinarily a dust ring or cap.

The object of my invention is to obviate these objections, so constructing the case that the works may be instantaneously removed therefrom or replaced therein when desired, while at the same time reliable and adequate protection is afforded them from dust or other foreign disturbing matters.

In carrying the invention into effect I make the exterior case or case proper of the ordinary band or ring, upon which are mounted or secured, in any of the well-known ways, the back and front caps. The inner back cap is omitted, however, from this exterior case or case proper, and the pendant is likewise omitted therefrom. A second or interior ring is provided, of a size adapting it to be contained readily and easily with the outer ring or band. This interior ring is provided with a solid back, which may be glass or metal, and secured thereto in any of the well-known ways, which back forms the inner back cap heretofore spoken of as omitted from the exterior case or case proper. To this ring is attached

the pendant, of usual construction, except that it has adjacent to the ring or stem ending in a shoulder at the base of that portion of a pendant usually seen on the outside of the case. Opposite to the pendant a small lug or pin projects from this ring, adapted to take under a shoulder on the interior of the outer ring. A recess is cut or formed in the outer ring at the point where it is desired to have the pendant, and of a size to receive and hold comparatively tightly the stem of the pendant before referred to. The watch-movement is secured within this inner ring. So secured, it is evident that to place the works within the case it is simply necessary to place the lug or pin on this inner ring beneath the shoulder on the interior of the outer ring, and place the stem of the pendant in the recess left therefor, when the works will be reliably secured within the case. The removal of the works requires merely the reverse operation, the removal or replacement requiring but a moment, and being attended with no delicate manipulations of small screws or other devices. This may be better understood by reference to the drawings, in which—

Figure 1 is a perspective view of a closed case embodying my invention; Fig. 2, a perspective view of the same opened; Fig. 3, a front view of the inner ring or band for containing the works; Fig. 4, a sectional view of the case proper and the inner ring or band in place; Fig. 5, a side view of a case, showing (the pendant being removed) the stem thereof; and Fig. 6, a sectional view of the ring.

6 is the ordinary outer ring or band of a watch-case, to which are secured the outer case-caps, 8 and 7, 6 being in this case a crystal-front placed directly in a bezel formed on 6, while the back cap is hinged to 6. It is to be understood, however, that the way of supporting these caps upon the ring is not material to the invention, and any of the well-known ways—hinges, bezels, or screw-threads—may be used, while the caps and rings themselves may be of any of the ordinarily-used materials—metal, glass, shell, celluloid, or other material—and these conditions apply to all the caps, rings, and modes of attachment of caps and rings shown or used in this inven-

tion. The exterior case or case proper comprises but these three elements, the usual pendant and inner back cap being omitted therefrom.

5 1 is a ring or band of a size adapted to permit it to be placed and fit within 6 snugly, yet easily. This ring 1 is provided with a solid back cap, 5, secured thereto as before noted, and provided with the usual key-
10 hole, as shown. If the back cap is hinged to the ring, the point of hinging may be at any desired point relatively to the point of hinging the outer back cap on the exterior ring or band. As shown in Fig. 3, it
15 is midway between the pendant and outer back-cap hinge; but the absolute point of hinging is in practice a matter of individual taste or judgment. In Fig. 3 this cap 5 is shown in full lines as closed upon 1, and in dotted
20 lines as opened. To this ring is attached the pendant 3, of usual construction, excepting that it is provided with a stem, 4, at its junction to the ring, this stem extending to a shoulder, which forms the base of the portion
25 of a pendant usually seen upon the exterior of a case. Immediately opposite this pendant a pin or lug, 2, is formed upon or attached to the ring 1. A recess, 9, is formed in the back edge of the ring or band 6, of a
30 size and contour just sufficient to receive friction-tight the stem 4 of the pendant 3. The ring 6 is also provided with the usual shoulder formed in its interior in making the snap or bezel thereon.

35 The watch-movement is secured within the ring 1 in such position, of course, that its winding-post shall coincide with the key-hole therein shown. The better to secure therein and thoroughly protect the movement, the
40 ring or band 1 is formed with a shoulder, 10, upon its interior. Upon this shoulder is to rest the front plate of the movement, the front plate then forming a tight joint upon the shoulder. Through the ring screws or pins pass
45 through 11 into the back plate, securing it in position. 1 and 5 form then a perfect dust cap and ring for the movement, inclosing and protecting it in an exceedingly efficient manner. The works or movement so
50 secured therein, the operation of the invention is readily understood. To place the same within the case, the lug or pin 2 is first fixed under the shoulder upon the interior of the outer ring and the stem 4 of the pendant
55 forced into recess 9 of ring 6. The back cap 7 being then closed, the movement is securely held within the case. When desired to remove the movement, the back cap is opened, the stem 4 lifted from the recess 9, when 2
60 may be disengaged from the shoulder and ring 1, and contained movement removed from the case. These operations require but a moment, and may be accomplished by any one, requiring no special skill, and no manipulation of small
65 and delicate fastenings. Ample opportunity is thus afforded for ready inspection of the movement, and for exhibition thereof to a customer

or friend. At the same time the ring 1 and its attached back cap 5 form an efficient and reliable dust ring or cap, as before explained, 70 thoroughly protecting the movement against the access thereto of dust or other disturbing extraneous matters.

While reference has herein been made to key-winders, it is evident that the invention 75 is equally applicable to stem-winders and setting or stem-winding movements, and hence the claims hereto annexed are not limited to the particular mode of winding the movement or setting the hands thereof. 80

It may be remarked that when the works or movement are placed within the ring or band 1, the front plate resting on the shoulder 10, and the dial secured thereto, if the outer case or case proper be held opened, as shown 85 in Fig. 4, the ring or band and contained movement is always placed therein with the dial downward or away from the back cap, the construction insuring this result without care on the part of the manipulator, so that 90 the time indices or hands are in position for inspection from the front of the watch. This construction insures, also, great economy in the construction of cases, while at the same time they are reliable, durable, and easily 95 manipulated. The component parts are less in number than those of cases as hitherto constructed, its features and functions being novel and useful.

It is evident, while only one lug or pin, 2, 100 has been described, that two or more might be used, properly disposed oppositely to the pendant on the ring or band beyond the line of greatest diameter thereof, and arranged to take under the shoulder on the front of the 105 ring of the outer case.

Having thus described my invention, what I claim is—

1. The combination, with the exterior case of a watch, of an interior removable ring or 110 case adapted to receive and contain a watch-movement, and provided with a pendant for holding it, and with a lug or pin opposite the pendant for locking it within the exterior case, substantially as described. 115

2. The combination, with the exterior case of a watch, of an interior removable ring adapted to receive and contain a watch-movement, and provided with a back cap, a pendant upon its side for holding it, and with a 120 lug or pin opposite the pendant for interlocking it within the exterior case, substantially as described.

3. A ring adapted to receive and contain a watch-movement, provided with a back cap 125 attached thereto, a pendant upon one side for holding it, and a lug or pin immediately opposite the pendant for locking it within a containing-case, substantially as described.

4. The combination of an exterior case for 130 a watch, having a recess in its band or ring for the reception of the stem of a pendant, and an interior ring or band having a pendant whose stem takes into such recess, and a

lug or pin opposite the pendant adapted to take under a shoulder upon the interior of the band or ring of the case, substantially as described.

5 5. The ring 1, provided with back cap 5, lug 2, and pendant 3, having stem 4, arranged relatively as shown, and adapted to receive and contain a watch-movement, substantially as described.

10 6. The combination, with the exterior watch-case, consisting of the band or ring 6, pro-

vided with recess 9, and caps 7 8, of the movement-containing ring 1, having cap 5, lug or pin 2, and pendant 3, with stem 4, arranged and operating substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH FAHYS.

Witnesses:

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