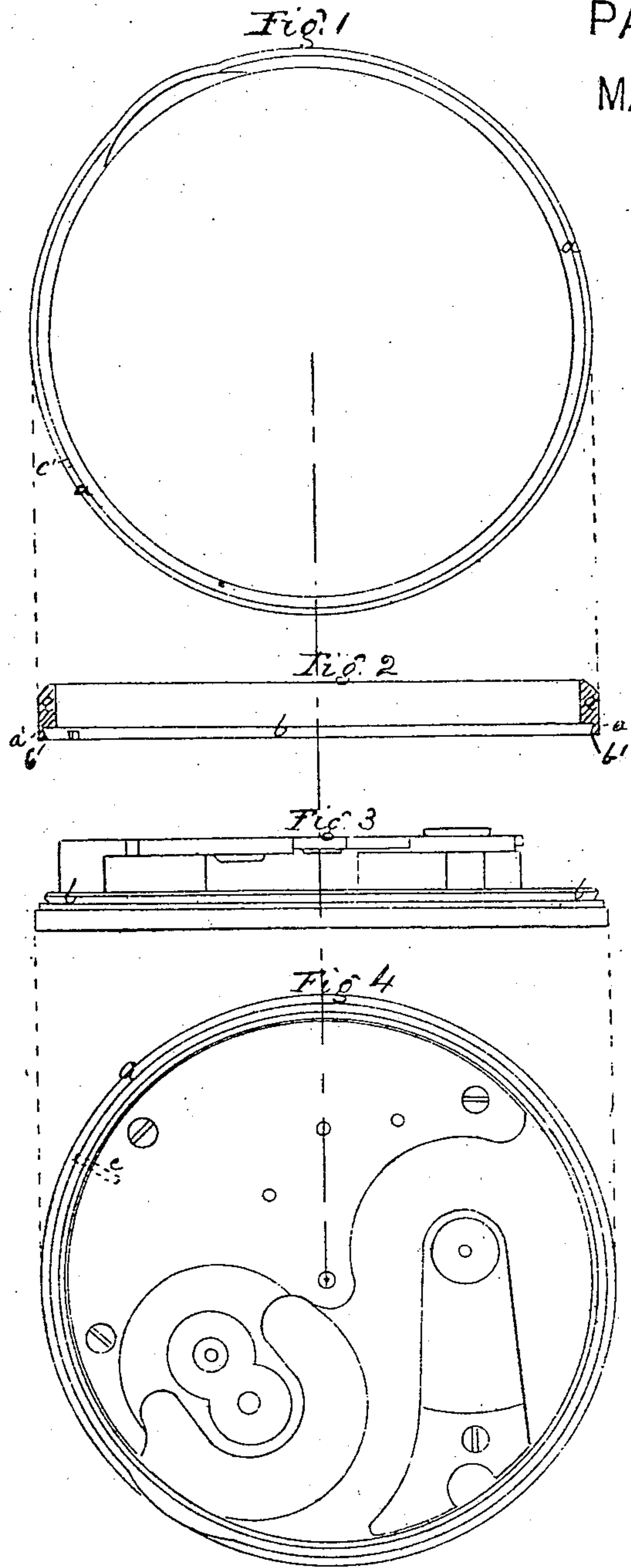


Edward Howard.
Mode of attaching Dust-Rings in Watches.

75018

PATENTED
MAR 3 1868



Witnesses

J. H. Adams
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Inventor

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United States Patent Office.

EDWARD HOWARD, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 75,018, dated March 3, 1868.

IMPROVEMENT IN DUST-RINGS FOR WATCHES.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, EDWARD HOWARD, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in the Mode of Securing the Dust-Ring (so called) of Watches in place, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a top or plan view of the dust-ring of a watch.

Figure 2 is a section of the same.

Figure 3 is an elevation of the watch-plates; and

Figure 4 is a plan or top view of the same.

The object of my invention is to secure the dust-ring of a watch in its place in such a manner as to admit of its being easily detached and again attached when necessary, while at the same time it forms a dust-tight joint around the works; and the invention consists in forming the lower rim of the dust-ring with a "snap" edge all around, which engages or fits into a corresponding recess or groove formed in the edge of the dial-plate.

It is common to arrange a dust-ring within a watch so as to surround the works and prevent the dust from entering, as it is apt to do, between the joints of the case. These rings have generally been fastened by means of screws, which render their removal, when the watch is to be taken apart for repairs, somewhat difficult. They have also been fastened by means of springs, which add to their expense, and do not make so tight a joint as by my invention.

Referring to the drawings, *a*, in the several figures, represents a dust-ring formed with a bevelled edge on the inside of the lower portion, as shown at *a'*, fig. 2. *b* represents the dial-plate upon which the dust-ring is fitted. Its edge is also formed with a bevel or "under cut" corresponding with that of the inner side, *a'*, of the dust-ring, so that as the said ring is pressed down upon the dial-plate, it snaps over in a manner similar to the cover of a watch-case, thus forming a perfectly-fitting and dust-tight joint. When it is required to remove the dust-ring for any purpose, it is only necessary to press up the edge of the same in a manner similar to that employed in opening the cover of the watch-case, one or more curved recesses being cut away at the joint or any portion of the rim for the application of the thumb-nail, thus requiring no tools for either attaching or removing the ring. *c*, in fig. 4, represents a pin or projection on the lower plate, which is designed to fit within a notch or cut in the lower edge of the dust-ring, to serve as a guide in fitting the latter in place.

What I claim as my invention, and desire to secure by Letters Patent, is—

The method of attaching the dust-ring *a* to the lower or dial-plate of a watch-movement, by means of a bevel or snap edge on said plate, engaging with a corresponding edge in the dust-ring, substantially as and for the purpose set forth.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD HOWARD.

Witnesses:

J. H. ADAMS,

M. S. G. WILDE.