

(Model.)

A. BITNER.
DUST PROOF WATCH.

No. 273,938.

Patented Mar. 13, 1883.

Fig. 1.

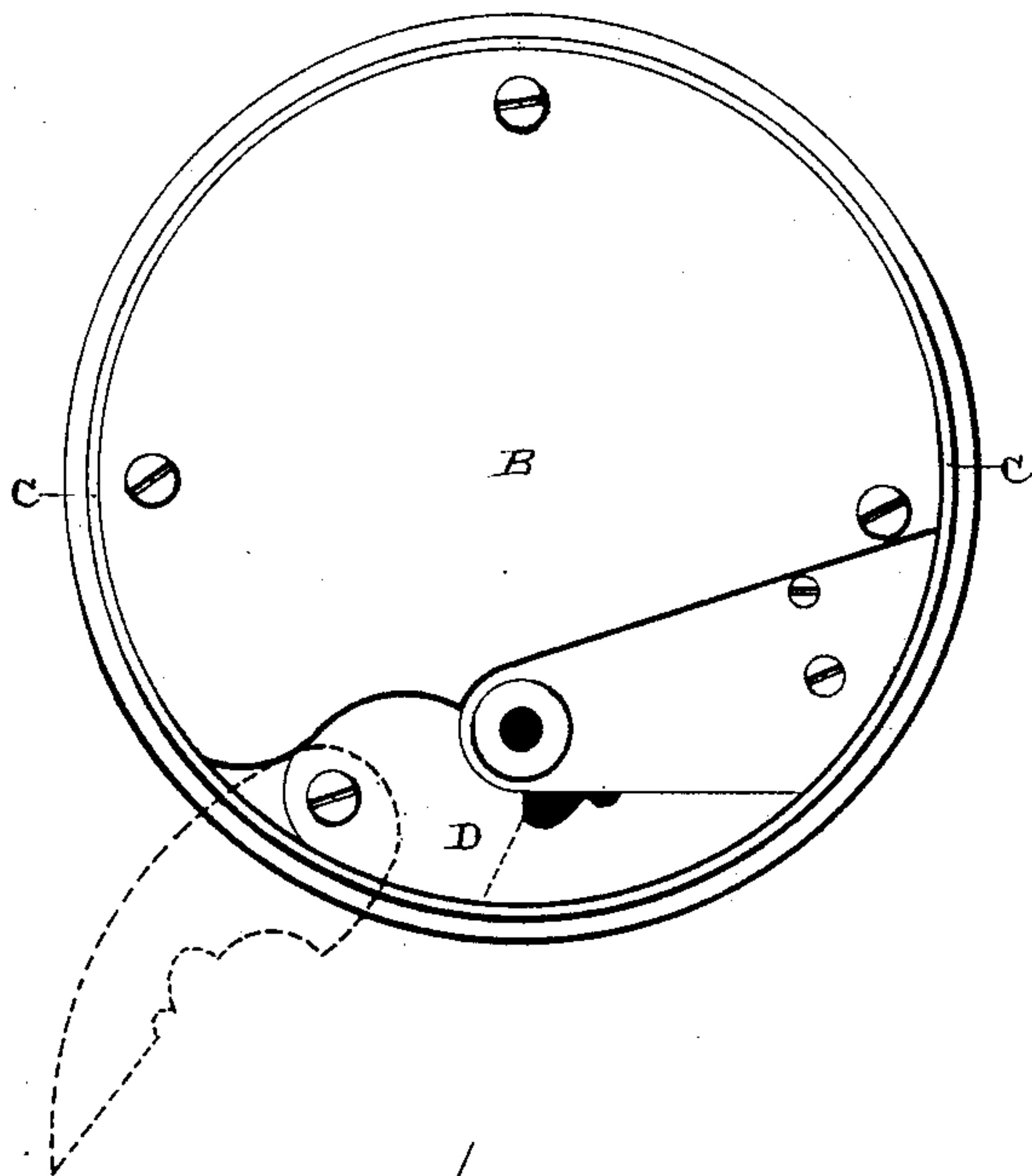


Fig. 2.

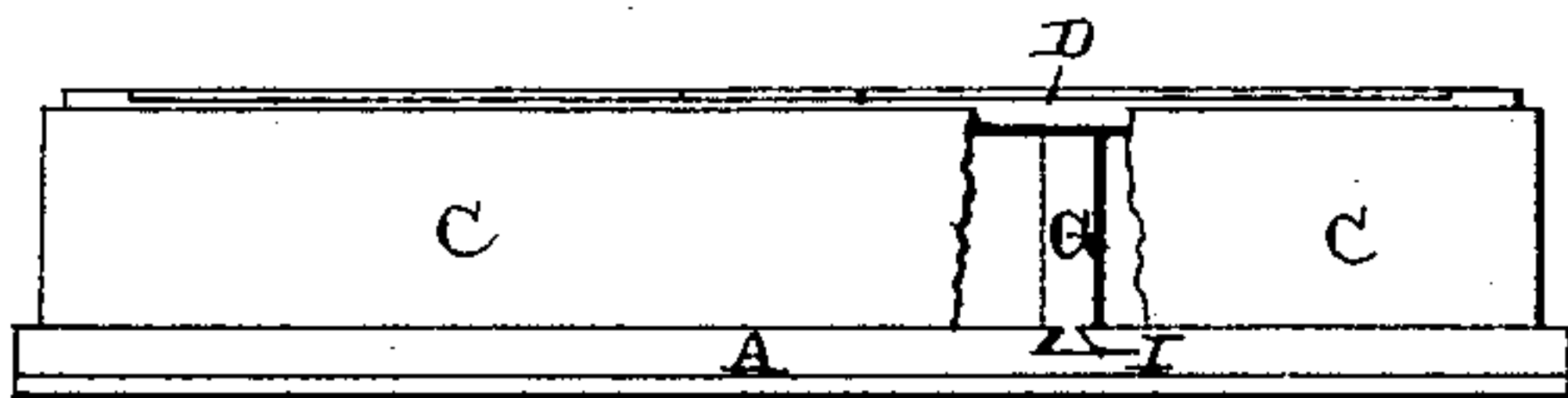
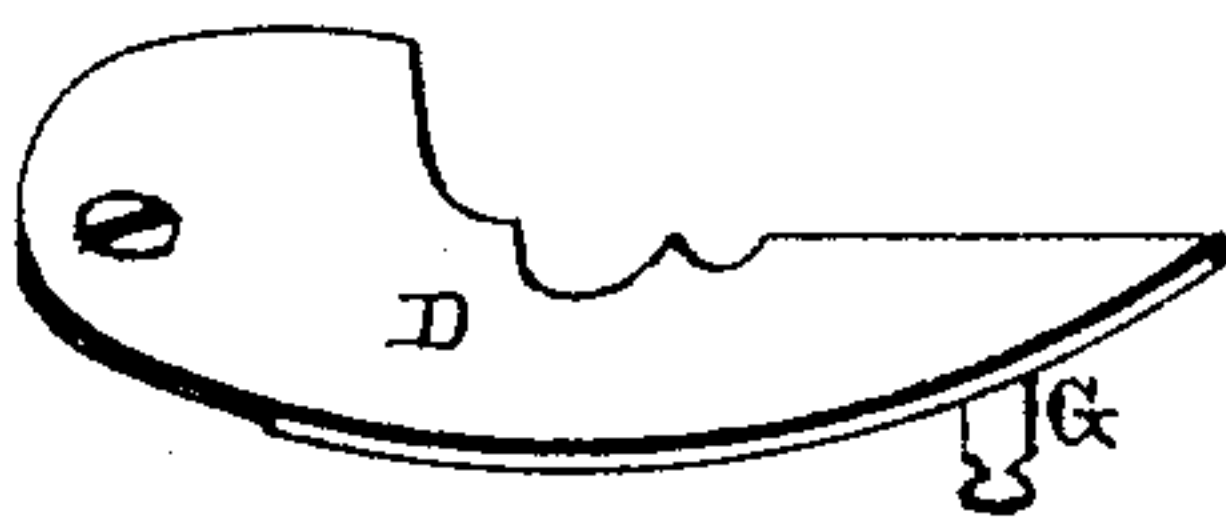


Fig. 3.



— **Witnesses.** —

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UNITED STATES PATENT OFFICE.

ABRAHAM BITNER, OF LANCASTER, PENNSYLVANIA.

DUST-PROOF WATCH.

SPECIFICATION forming part of Letters Patent No. 273,938, dated March 13, 1883.

Application filed November 14, 1882. (Model.)

To all whom it may concern:

Be it known that I, ABRAHAM BITNER, of Lancaster, in the State of Pennsylvania, have invented certain new and useful Improvements in Dust-Proof Watches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in dust-proof watches; and it consists, first, in a dust-plate which is pivoted at one end to the cap-plate, so that it can be swung freely back upon its pivot to display the watch-movement; second, in a dust-plate which is pivoted at one end to the cap-plate, and which has its supporting-pillar secured to the under side of its free end, so as to support the dust-plate in position when closed.

The object of my invention is so to attach the dust-plate that the watch-maker in showing the watch to a customer, can turn the plate back and show the movement without having to remove a single screw.

Figure 1 is a plan view of a watch-movement which embodies my invention. Fig. 2 is an edge view of the same, showing the dust-band broken away. Fig. 3 is an inverted view, in perspective, of the dust-plate.

A represents the base-plate, and B the cap-plate, of the movement, and C the inclosing dust-band, all of which may be of any construction that may be preferred.

The dust-plate D has a shoulder formed on its under side at that end where it is pivoted to the cap-plate, and the cap-plate has a corresponding shoulder formed on its upper side, so that when the two parts are attached together they form a lap-joint, so as to exclude all dust, and so that their tops will be flush with each other, and thus not increase the thickness of the watch-movement. The dust-plate is pivoted at its shouldered or cut-away end to the cap-plate, instead of being rigidly secured thereto by means of screws, so that it can be swung freely back, and thus display the movement. In order to support this plate at its free end and keep the free end always flush with the

top of the cap-plate, the pillar G is secured to the under side of the cap-plate, so as to move with it. This pillar has its lower end notched, or otherwise formed so as to catch in a dovetailed recess or groove, I, which is formed in the outer edge of the top of the base-plate, and thus form a sort of a lock to prevent any strain from being brought to bear on the pivot of the dust-plate when the dust-band is being removed.

By pivoting the dust-plate to the cap-plate, as shown, the dust-plate can be freely swung back for the purpose of allowing the movement of the watch to be inspected without having to remove a single screw. This combination is a great improvement to jewelers who have to show the watches very frequently, as it saves them a great deal of time and trouble. When a purchaser wishes to examine the movement the jeweler has only to remove the dust-band, and then swing the dust-plate back.

Instead of having the dust-plate pivoted at one end, so as to swing back, the end of the dust-plate can be made to catch under the corner of the cap-plate, and be made to draw out and be entirely removed from the movement.

Having thus described my invention, I claim—

1. In a watch-movement, the combination of the cap-plate with the dust-plate, which is pivoted thereto in such a manner that the dust-plate can be swung around out beyond the edge of the movement, substantially as shown.

2. The combination of the cap-plate with the dust-plate, which is pivoted thereto and provided with a pillar at its free end, substantially as described.

3. The combination of the cap-plate, the dust-plate provided with a pillar, and the base-plate having a recess or groove made in its top for the lower end of the pillar to catch in, substantially as set forth.

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

A. BITNER.

Witnesses:

F. A. LEHMANN,
WARREN C. STONE.