

W. Fenimore.

Dust Cups for Watches.

N^o 74329

Patented Feb. 11, 1868.

Fig. 1.

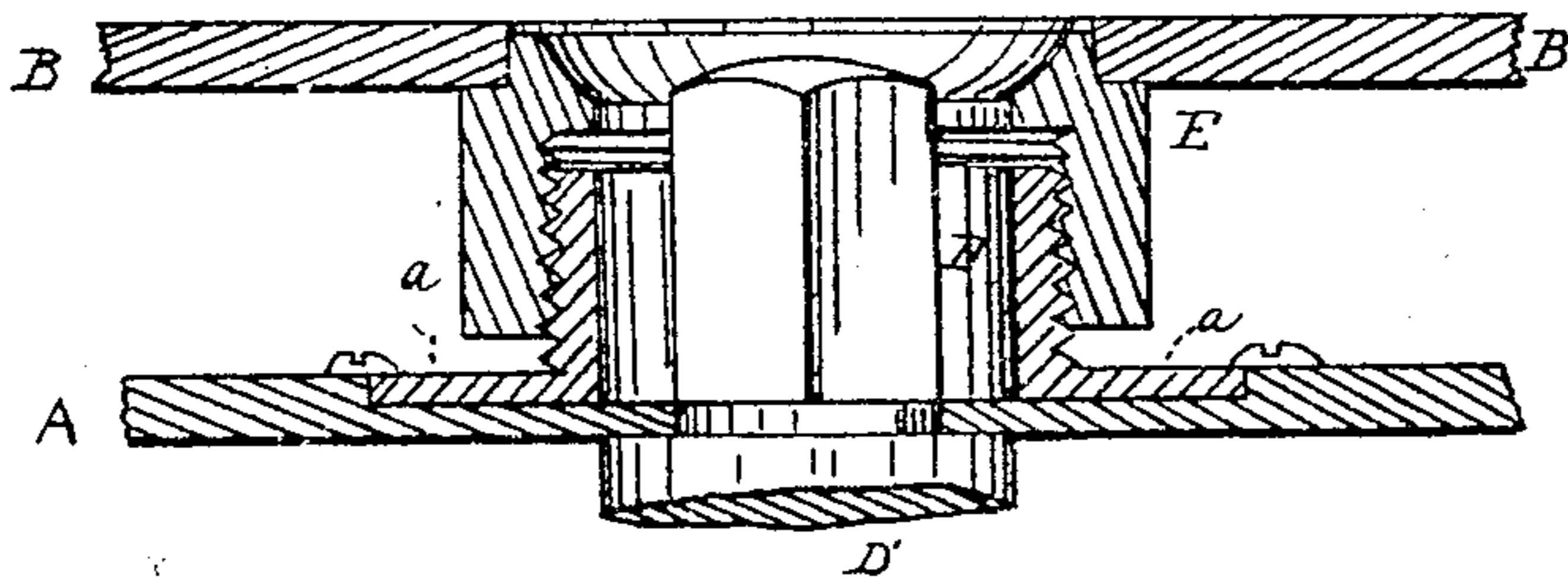
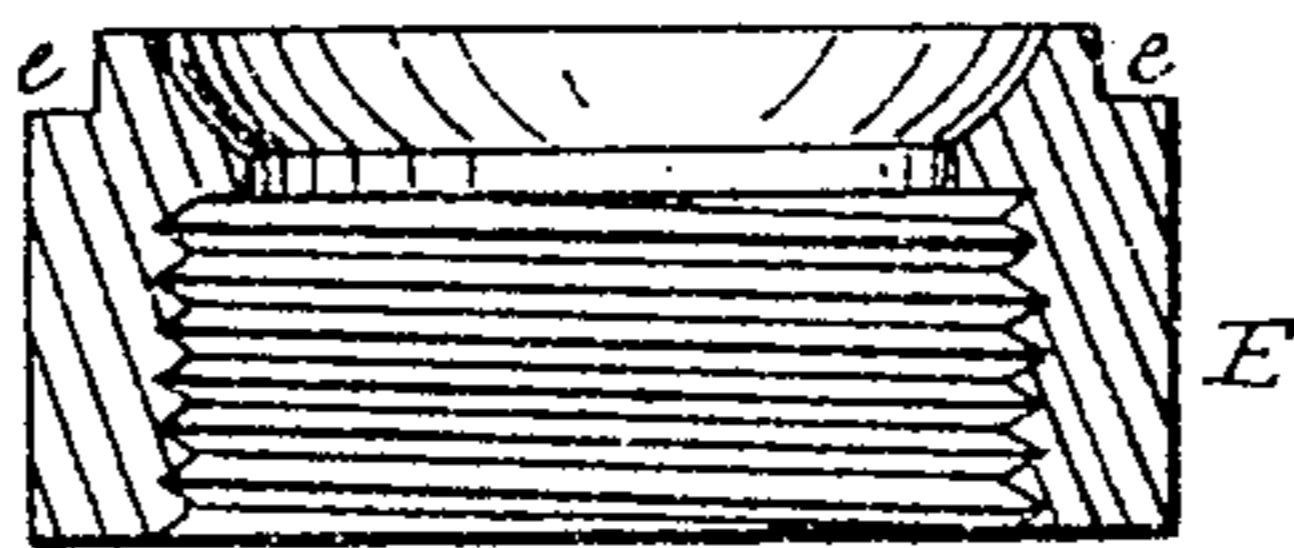


Fig. 2.



Witnesses:

John Parker
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by his Atty
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WESLEY FENIMORE, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 74,329, dated February 11, 1868.

IMPROVEMENT IN DUST-CUPS FOR WATCHES.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WESLEY FENIMORE, of Philadelphia, Pennsylvania, have invented an Adjustable Dust-Cup for Watches; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an improvement in the ring which is termed the dust-cup, and which usually surrounds that portion of the arbor of a watch which projects through the back plate of the works for receiving the key; and my improvement consists in so constructing a dust-cup that it can be readily adjusted and a tight joint effected, to prevent fine dust from gaining access through the key-hole of the cap-plate to the works of a watch.

In order to enable others skilled in the art to make and apply my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 represents, in section and on an enlarged scale, sufficient of a watch to illustrate my invention.

Figure 2 a portion of fig. 1, detached.

A represents part of the back plate of a watch, between which and the front plate are confined the works, and B represents part of the cap, that is, the plate hinged to the case, and intervening between the back of the latter and the plate A. D' represents the outer end of one of the arbors, to which the key is usually applied for winding up the watch or for turning the pointers, the arbor having the usual square termination adapted to the hole in the key, and turning in the plate A.

In watches it is usual to surround the projecting portion of the arbor with a hollow cylinder, (termed the dust-cup,) secured to the plate A, and projecting so far beyond the latter that the cap B, when closed, will bear against the outer end of the cylinder, and thus prevent fine dust from penetrating through the hole in the cup B, for admitting the key to the space between the said cup and the plate A, and to the works.

It is rarely, however, that a perfectly dust-tight joint is obtained between the outer end of the dust-cup, as usually constructed, and the cap, as the slightest distortion of the latter will result in a joint so imperfect as to admit fine particles of dust to the works—a defect which my invention is designed to obviate.

D is a ring, situated concentrically with the arbor D', and secured to the plate A by set-screws passing through the flange *a* of the said ring into the plate. On the exterior of the ring are cut screw-threads, adapted to internal threads in a ring, E, which forms the adjustable dust-cup. This ring is reduced in diameter at its outer end, so as to form an annular shoulder, *e*, against which bears the cap B, when the latter is closed, the portion thus reduced in diameter fitting snugly in an opening made for its reception in the said cap B.

It should be understood that the ring E is screwed so tightly to the ring D, that the former cannot be turned by any ordinary agitation to which the watch may be subjected, but yet not too tightly to prevent its adjustment by a slight effort with a suitable instrument.

It will be evident that a perfectly dust-tight joint may be made between the outer end of the ring E and the cup B, by a proper adjustment of the former in respect to the latter. I prefer the reduction of the ring in diameter at the top, so as to penetrate the opening in the cup, and form a shoulder for the latter to bear against, as by this arrangement there are two joints to bar the entrance of the dust. A very effective dust-tight joint may, however, be made, without causing the ring E to penetrate the cap B, the latter bearing against the end only of a plain ring, which admits of such delicate adjustment that the desired joint may be easily obtained.

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

1. A ring, E, rendered adjustable on the ring D of the plate A, in respect to the cap B of a watch, substantially as and for the purpose herein set forth.

2. The ring E, reduced in diameter, so as to penetrate and fit snugly in the opening of the cap B, and having a shoulder for the said cap to bear against, all as set forth.

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

WESLEY FENIMORE.

Witnesses:

H. HOWSON,

CHARLES B. PRICE.