(No Model.)

H. E. DUNCAN.

WATCH MOVEMENT BOX.

No. 456,358. Patented July 21, 1891.

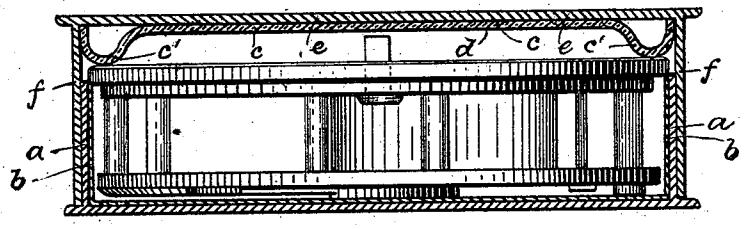


FIG. 1.

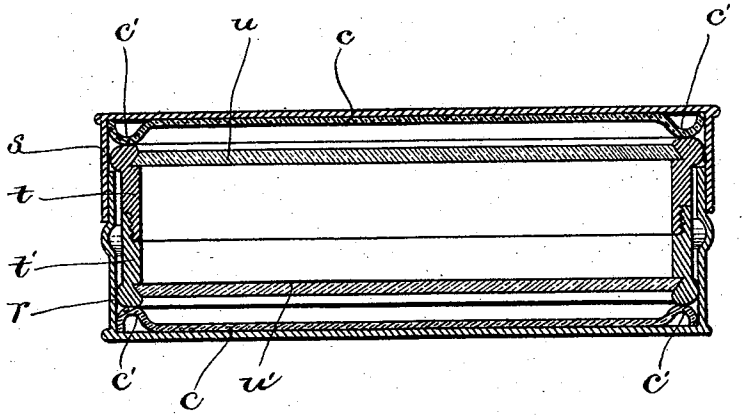


FIG. 2.

WITNESSES:

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INVENTOR:

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by Wright Brown Quinby & Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HARRIE E. DUNCAN, OF NEWTONVILLE, MASSACHUSETTS, ASSIGNOR TO THE AMERICAN WALTHAM WATCH COMPANY, OF MASSACHUSETTS.

WATCH-MOVEMENT BOX.

SPECIFICATION forming part of Letters Patent No. 456,358, dated July 21, 1891.

Application filed April 10, 1891. Serial No. 388,856. (No model.)

To all whom it may concern:

Be it known that I, HARRIE E. DUNCAN, of Newtonville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Boxes for Watch-Movements, of which the following is a specification.

This invention has for its object to provide an improved watch-movement box; and it constitutes an improvement on the form of watch-movement box described and claimed in Letters Patent of the United States No. 315,755, granted to Ezra C. Fitch April 14, 1885.

The invention consists in providing a watch-movement box with an annular yielding shoulder or shoulders adapted to prevent jar to the watch-movement, as I will now proceed to describe.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a sectional view of a watch-movement box of the kind shown in the said Fitch patent above mentioned. Fig. 2 represents a similar view of another form of watch-movement box provided with my improvement.

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

In the drawings, referring, first, to Fig. 1, *a* represents the lower or receiving portion of the box, and *b* represents an inner lining of metal contained in said receiving portion or holder *a*. The upper edge of the lining *b* is lower than the upper edge of the holder *a*, and forms an annular shoulder, on which rests the movement-band of the watch when the movement is placed in the holder, the above being the construction shown in said patent.

In carrying out my invention I take a blank *c* of stiff paper or thin card or other like material and cover the same on one side with a piece of waxed paper *d*. I then strike up upon the said blank *c* an annular hollow ridge *c'*. The blank may then be trimmed down to its required size and shape, and then affixed to the top *e* of the cover of the box *a* by any suitable mucilage or cement, the waxed-paper side being away from the top *e* of the cover of the box. The side piece or flange *f* of the cover may then be attached to the top *e* in any suitable manner, the same being preferably just outside of the annular ridge *c'*, and thus tending to hold the same up and prevent it from spreading or flattening out.

It will be seen that this improvement provides an annular yielding shoulder, on which the dial of a watch-movement will rest when the movement is placed in said box, and which is adapted to support said dial around its edge, leaving its center free.

An objection has been found to the rigid shoulder 6 shown in the said Fitch patent, in that a very violent shock given to the box is apt to so jar the dial against said shoulder as to break or otherwise injure the dial. This objection is overcome by my improvement, the yielding nature of the annular shoulder formed by striking up a hollow ridge from a blank of stiff paper or thin card preventing any jar of the dial likely to break or otherwise injure the same. It will also be seen that when waxed paper is used as an inner coating or lining, as above described, a waterproof cover is provided for the box; but I do not limit myself to the use of a waxed-paper lining, but may use a piece of card or stiff paper struck up, as already described, without any lining of another material, and said piece may be waxed upon one side.

It will be observed that the outer side of the annular ridge *c'* is substantially at right angles with the surface of the top *e*, while the inner side of said ridge is inclined at a less angle to the surface of said top, forming a bevel on the inner side of said ridge. This form makes the ridge or shoulder of a more yielding nature than it would otherwise be, as will be readily understood.

In Fig. 2 I have shown my improvements applied to the top and bottom of an outer box, and have shown the inner box, which contains the watch-movement, resting on a yielding annular shoulder *c'*, formed, as hereinbefore described, on a piece of stiff paper or thin card, and placed in the lower section *r* of the outer box, and being pressed downwardly onto said seat by another yielding annular shoulder *c'*, formed as above described and placed within the top section *s* of the outer box. The inner box, which contains the

watch-movement, in this case may be formed as shown, and may consist of two annular side pieces t and t', their meeting edges being recessed, so as to permit one to fit within the other. The annular side piece t is adapted to hold a piece of glass u, forming the top of the box, while the annular side piece t' is adapted to hold a piece of glass u', forming the bottom of the box. The top and bottom pieces may, however, be of any other suitable material than glass. It will be seen that in this latter case the watch-movement does not bear directly on my improved annular yielding shoulder; but the inner box, in which said movement fits closely, is supported and held between two of said annular yielding shoulders in the outer box, shock or jar to the watch-movement being thus avoided.

I claim—

1. The combination, with a watch-movement box, of a cover having on its inside an annular hollow ridge, said ridge forming a yielding shoulder adapted to bear upon the edge of the dial of a watch-movement packed in said box, as set forth.

2. The cover for a watch-movement box, consisting of a top, a flange or side piece thereon, and an inner top piece covered with waxed paper or wax and struck up to form an annular hollow ridge, said ridge constituting a yielding shoulder just inside said flange or side piece, as set forth.

3. A watch-movement box having an internal annular seat composed of a hollow annular ridge struck up or embossed on a piece of flexible material, such as paper, affixed to the interior of the box, as set forth.

4. A watch-movement box having two internal annular seats on its bottom and top pieces, each seat being a hollow annular ridge struck up or embossed on a piece of flexible material, such as paper, affixed to the interior of the box, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 26th day of March, A. D. 1891.

HARRIE E. DUNCAN.

Witnesses:
EWING W. HAMLEN,
C. F. BROWN.