(No Model.)

L. W. ARNOLD.

WATCH MOVEMENT BOX.

No. 266,265. Patented Oct. 24, 1882.

Fig. 1

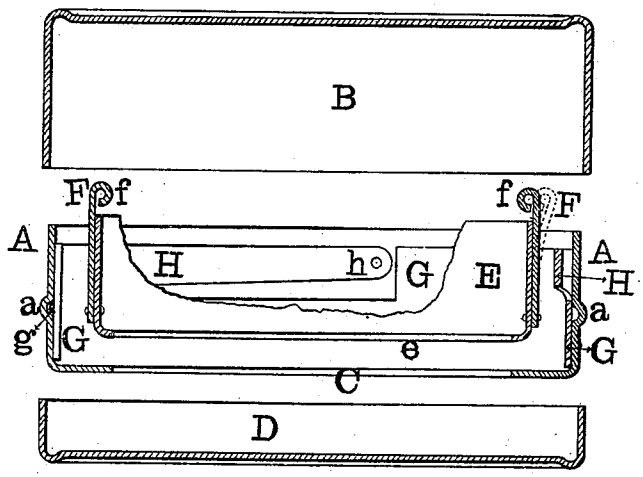
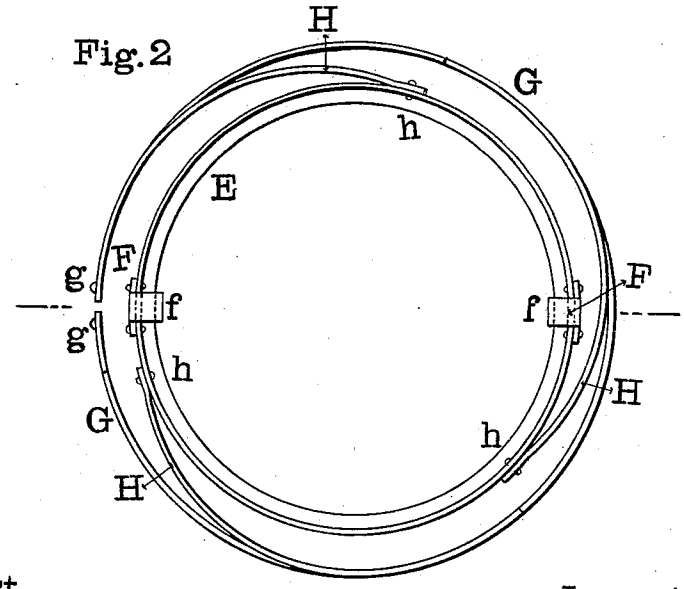


Fig. 2



Attest

John L. Hutchinson.

W. S. Bates

Inventor

Llewellyn W. Arnold.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

LLEWELLYN W. ARNOLD, OF CHICAGO, ILLINOIS, ASSIGNOR OF TWO-FIFTH[S] TO JOHN L. HUTCHINSON, OF SAME PLACE.

WATCH-MOVEMENT BOX.

SPECIFICATION forming part of Letters Patent No. 266,265, dated October 24, 1882.

Application filed July 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, LLEWELLYN W. ARNOLD, a resident of Chicago, in Cook county, Illinois, have invented certain Improvements in Watch-Movement Boxes, of which the following is a specification.

My invention relates to boxes for watch-movements. A perfect movement-box should be so constructed that the movement can be easily and quickly taken out of it and replaced in it. When in the box the movement should be securely held, and it should be held by an elastic force to prevent jarring. The box should be capable of use as a display-box, so that the movement can be inspected without removal from it, and it should permit of the movement running while packed in the box.

This invention is intended to secure these objects; and to this end it consists in certain parts and combinations of parts, which will be particularly pointed out in the claims at the end hereof.

The drawings represent a movement-box containing my invention.

Figure 1 is a vertical section of the box, the cover and removable bottom being out of contact with the box proper and a portion of the holder being broken away to show the parts behind it. Fig. 2 is a top view of the holder, spring-band, and connecting-springs.

I have not thought it necessary to show a movement in the box.

A is the box proper; *a*, a bead rolled in the metal of the box. B is the cover, which slips on in the usual manner. The bottom of the box is cut out at C, so that it may be used as a display-box and the movement inspected without being removed.

D is a removable bottom, to cover the opening C when the box is used for transportation purposes.

E is the movement holder or cup, with an open bottom, *e*. At the sides of the holder are springs F, secured either by rivets, solder, or otherwise. At the tops of these springs are catches *f*, which hook over the movement and hold it securely in place. The inner edges of these catches at *f* are rounded, so that they will not injure the edges of the dial or movement, which may be pressed down into place without first springing back the catches. These catches may be formed, as shown, by turning over the metal of the springs, or in any other suitable manner.

G is a spring-band. Its elasticity causes it to press against the sides of the box A. *g* are projections on the band, which enter the bead *a* of the box, and thus secure the band.

H are springs, secured at one end to the spring-band G and at the other end to the holder E. I prefer to cut these springs out of the metal of the band, as shown; but they may be made separate, if desired, and fastened to the band; or they might be fastened directly to the box without the intervention of the band. I also prefer to fasten the ends *h* of these springs to the holder E by a single rivet at each end, as shown, as the connection is in that case more elastic; but they may be fastened in any other suitable manner without departing from my invention.

In practice the movement is inserted into the holder and pressed down into place, the springs F yielding as it goes down and the catches *f* holding it when down. Then, the cover B and bottom D being put on, the movement is ready packed for transportation, and, as is obvious, it may run while in the box. By pressing the catch *f* back with the finger the movement may be taken out again. To exhibit the movement the cover B and bottom D are taken off, thus exposing the dial and top plate of the movement, and for most purposes this will be sufficient without taking it out of the box.

It will be observed that the holder is out of contact with the box above, below, and at the sides, and, being held by the springs H, it will yield both vertically and laterally, and the movement is safe from jars in any direction.

What I claim is—

1. The combination of the movement-holder, the box, and the springs at the side of the holder, connecting it to the box, substantially as described.

2. The combination of the box, the holder, the springs at the side of the holder, and the spring-band for connecting the same to the box, substantially as described.

3. The combination of the box having the bead *a*, the holder, the springs, the spring-

band, and the projections on the band entering the bead of the box, substantially as described.

4. The combination of the box, the opening C therein, and the removable bottom D, so that the box may be used for both display and transportation, substantially as described.

5. The combination, with the movement-holder, of the upright springs F, connected near their lower ends with the holder, and having the catches *f*, with their inner edges rounded, substantially as described.

LLEWELLYN W. ARNOLD.

Witnesses:
JOHN L. HUTCHINSON,
WM. S. BATES.