

(No Model.)

2 Sheets—Sheet 1.

C. H. SMITH.
WATCH MOVEMENT BOX.

No. 557,444.

Patented Mar. 31, 1896.

Fig. 1.

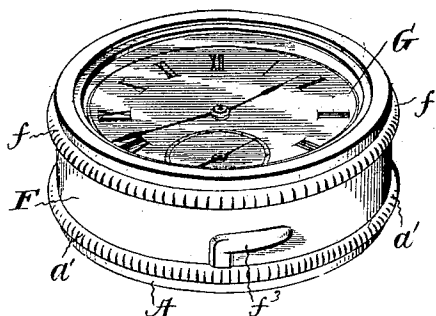


Fig. 2.

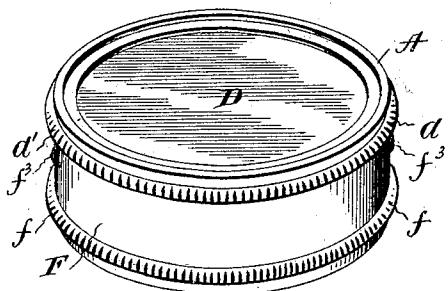


Fig. 3

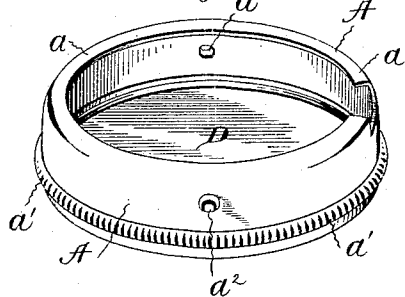


Fig. 5.
f³

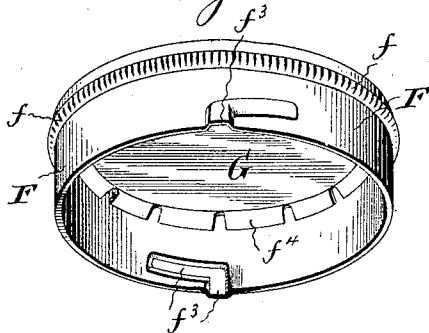
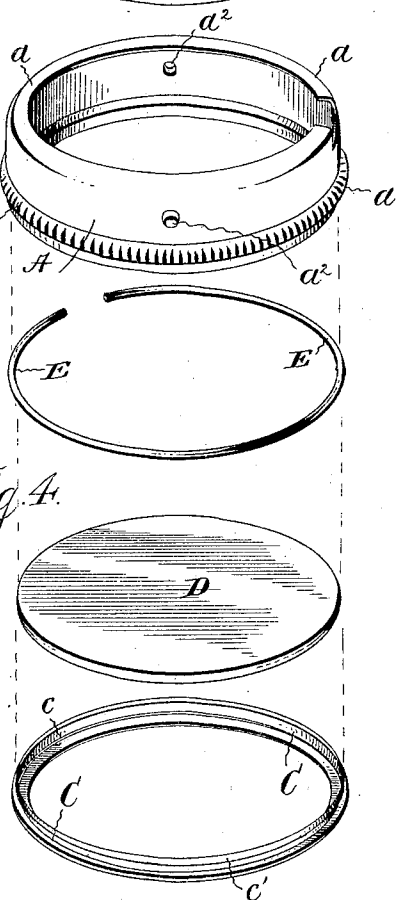


Fig. 4.



Witnesses:
Jas. Esfutchinson
Henry C. Hazard.

Inventor.
Charles H. Smith, by
Kimble and Russell, his attys

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Fig. 6.

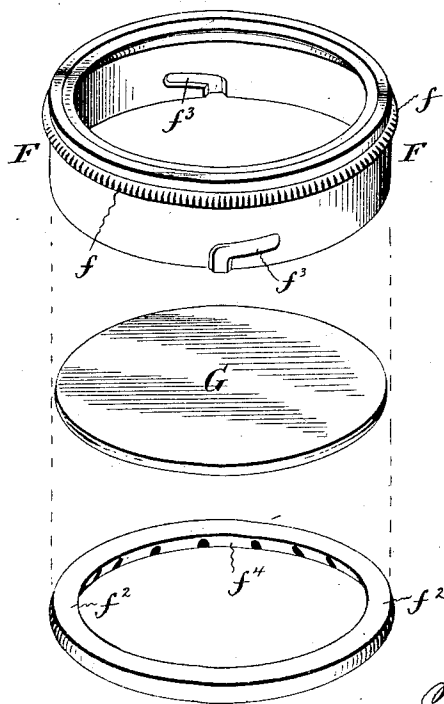


Fig. 7.

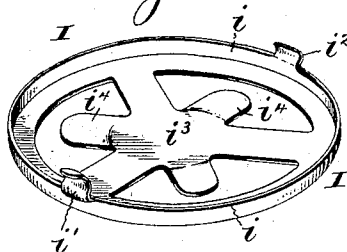


Fig. 8.

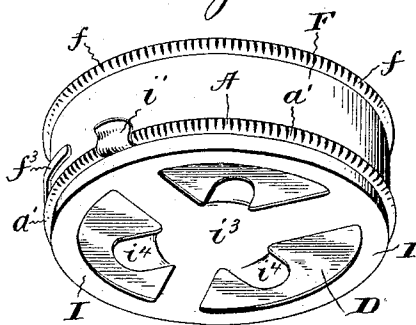


Fig. 9.

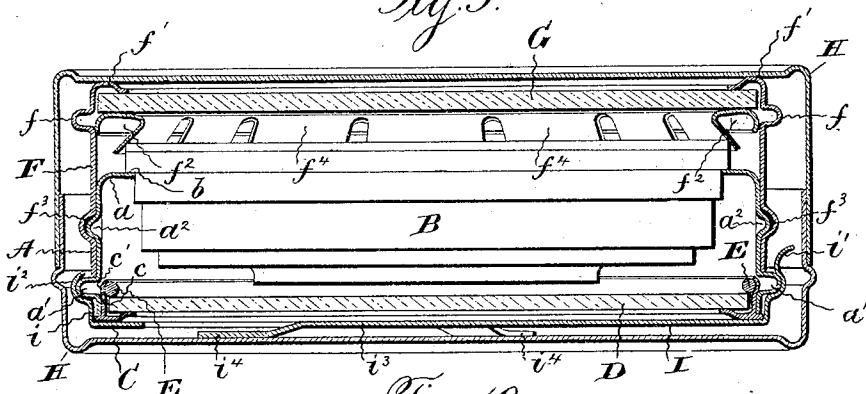
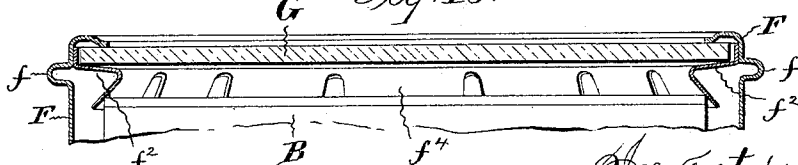


Fig. 10.



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UNITED STATES PATENT OFFICE.

CARLOS H. SMITH, OF ELGIN, ILLINOIS, ASSIGNOR TO THE ELGIN NATIONAL WATCH COMPANY, OF CHICAGO, ILLINOIS.

WATCH-MOVEMENT BOX.

SPECIFICATION forming part of Letters Patent No. 557,444, dated March 31, 1896.

Application filed June 8, 1894. Serial No. 513,941. (No model.)

To all whom it may concern:

Be it known that I, CARLOS H. SMITH, a citizen of the United States, residing at Elgin, in the county of Kane, and in the State of Illinois, have invented certain new and useful Improvements in Movement-Display Boxes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view from the upper side of my box containing a watch-movement. Fig. 2 is a like view of the lower side of the same. Fig. 3 is a perspective view from the inner side of the body separated from the cover. Fig. 4 is a like view of the parts of such body separated from each other. Fig. 5 is a perspective view from the inner side of the cover of the box. Fig. 6 is a like view of the parts composing such cover separated from each other. Fig. 7 is a perspective view of the suspension-spring of a shipping-box for use in connection with my display-box. Fig. 8 is a like view of the same when engaged with the body or cover of such box. Fig. 9 is an enlarged section of the box containing a movement upon a line passing through its axis; and Fig. 10 is a detail view in section, showing a different construction of the movement-holding ring.

Letters of like name and kind refer to like parts in the several figures.

The object of my invention is to furnish a convenient and safe means for displaying a watch-movement and for attaching the same to a shipping-box; and to this end said invention consists principally in the construction of the display-box, substantially as and for the purpose hereinafter specified.

It consists, further, in the means employed for combining the display-box with a shipping-box, substantially as and for the purpose hereinafter shown.

The body of my box is composed of a sheet-metal ring A, which has its upper edge *a* turned inward to form a bearing for and upon which may rest a watch-movement B, the space within the edges of such bearing being made to correspond to the diameter of the movement-plate below its casing-shoulder *b*.

Near the lower edge of the body A is

formed an annular bead or corrugation *a'*, which has its periphery knurled, and within its lower open end is fitted a sheet-metal ring C, that in cross-section has the form shown in Fig. 9, its main portion *c* being adapted to extend upward into said body, while the lower portion of said ring bears against the edge of such body and from thence extends horizontally inward and then upward and inward, as shown, so as to furnish a bearing for a glass D.

The upper part of the vertical flange *c* of the ring C has an outward curve *c'* at a point opposite to the bead *a'*, which extends into the latter and operates to lock said ring in place and also at its concave side furnishes a bearing for a wire ring E, that is open at one point and has sufficient outward spring to cause it to firmly engage with the concavity of said part and to lock the glass D in position.

Over the box-body described is fitted a cover which is composed of a sheet-metal cylinder F, provided near its upper end with a knurled bead *f* and having its upper edge *f'* extended inward over the edge of a glass G, which latter is held in position by means of a ring *f*². At two or more points upon said box-body A are provided radial projections *a*² and *a*³, and within the cylindrical part F at corresponding points are formed L-shaped grooves *f*³ and *f*³, which are arranged as shown and are adapted to receive and contain such projections or studs, so as to permit said cover to be moved downward over said body and then locked in place by a circumferential movement that will bring each stud within the horizontal portions of such grooves, the arrangement producing what is known as a "bayonet-lock."

The outer edge or rim of the ring *f*² is curved outward, as shown, to enable it to extend into the hollow of the bead *f* and thereby be locked in place. From the inner edge of such ring a number of spring-lugs *f*⁴ and *f*⁴ extend downward and outward and when the cover is in place bear upon the edge of the dial *b* of the watch-movement B with a yielding but sufficient pressure to hold such movement in position upon the box-body.

As thus constructed the box is adapted to

hold a watch-movement in place without danger of injury to the dial, as the only contact with such part is where the spring-lugs of the cover bear upon its edge and exert a downward and inward pressure upon the same.

Instead of locking the ring f^2 to the cover F by curving the outer edge of said ring and springing it into engagement with the bead f , a less positive and simply frictional mode of securing the ring in place, such as is shown in Fig. 10, may be used where said ring is given an L shape in cross-section, and its vertical cylindrical part being adapted to fit snugly within the portion of the cover F above the bead f and around the edge of the glass G, while its horizontal portion extends inward beneath such glass.

In order that the display-box may be readily and safely combined with and held within a shipping-box H, I secure within the latter a disk I, which has its edge turned upward to form a flange i , that is adapted to engage with and loosely surround the body A or cover F between their knurled beads a' or f , respectively, and upon opposite sides is provided with two lugs i' and i^2 , respectively, that extend upward and are adapted to engage with the adjacent knurled bead and thereby to lock said display-box within such disk. One of said lugs i' has at its end an outward curve, which causes it to be sprung outward when a box is being placed in position and enables it to be pressed outward so as to release the box for removal.

The bottom of the disk is cut away, as shown, and is pressed downward so that its central part i^3 will be below the plane of its edge. From such central part three arms i^4 and i^5 extend outward and downward and furnish means for securing the disk upon the bottom of the shipping-box H.

The disk I, as constructed and combined with the shipping-box, forms a secure spring-support for the display-box, which latter is placed in position therein by inserting one of the knurled beads a' or f within the lug i^2 and then pressing said box downward until such bead is engaged with the lug i' , while to remove said display-box it is only necessary that said lug i' should be pressed outward until released from engagement with said bead. It will be seen that the display-box and its contents are held with equal security whether the box or its cover is in engagement with the spring supporting-disk.

Having thus described my invention, what I claim is—

1. As an improvement in watch-movement boxes, the combination of the glass, a ring engaging the latter upon one side, and the box part surrounding and engaged by said ring and having an inwardly-extending part that engages the other side of the glass, substantially as and for the purpose set forth.

2. As an improvement in watch-movement boxes, the combination of the glass, a ring engaging the latter upon one side, and the

box part surrounding said ring and having a cavity into which a projection upon the ring extends, substantially as and for the purpose described.

3. In a watch-movement box, the combination of a movement-supporting part, and means to hold the movement thereon, whose movement-engaging portion extends downwardly and outwardly across the edge of the movement, substantially as and for the purpose specified.

4. In a watch-movement box, the combination of a movement-supporting part, a ring for holding the movement thereon, having a movement-engaging part or parts, that incline where they come in contact therewith, substantially as and for the purpose shown.

5. In a watch-movement box, the combination of a movement-supporting part, and a movement-holding ring that has yielding extensions to engage the movement which are inclined where they come into contact therewith, substantially as and for the purpose set forth.

6. In a watch-movement box the combination of the box-body having a movement-seat, a box-cover that has a part to engage the edge but not the face of the dial, that is inclined where it comes into contact therewith substantially as and for the purpose described.

7. In a watch-movement box the combination of the box-body having a movement-seat, and a movement-holding part that extends downwardly and outwardly across and engages the edge of the dial, substantially as and for the purpose shown.

8. As an improvement in watch-movement boxes, the combination of a box having a glazed bottom and having its upper edge extended inward to form a movement-seat, and a cover having a glazed top and provided with a downwardly and outwardly inclined part to hold a movement in place upon such seat, substantially as and for the purpose described.

9. A yielding or elastic support for watch-movement boxes consisting of a disk provided with several supporting-arms, on its under side, and upon its upper side, at its edge, two vertically-extending locking-lugs, one of which has an outward extension at its upper end, substantially as and for the purpose shown.

10. The combination of a watch-movement box having beads near its top and bottom, respectively, and a yielding or elastic support therefor having locking-lugs adapted to engage either of said beads, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of May, A. D. 1894.

CARLOS H. SMITH.

Witnesses:

GEO. S. PRINDLE,
M. S. ALDRIDGE.