

(Model.)

A. D. BINGHAM.
WATCH MOVEMENT BOX.

No. 280,121.

Patented June 26, 1883.

Fig. 1

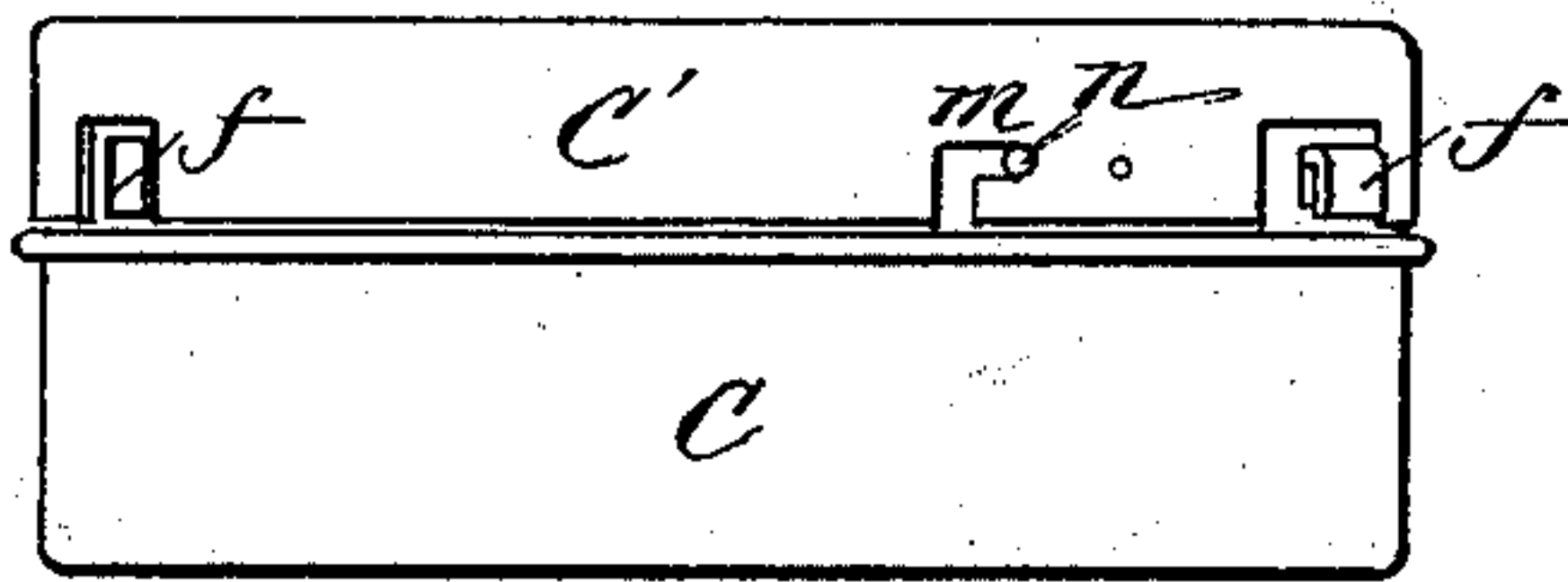


Fig. 2

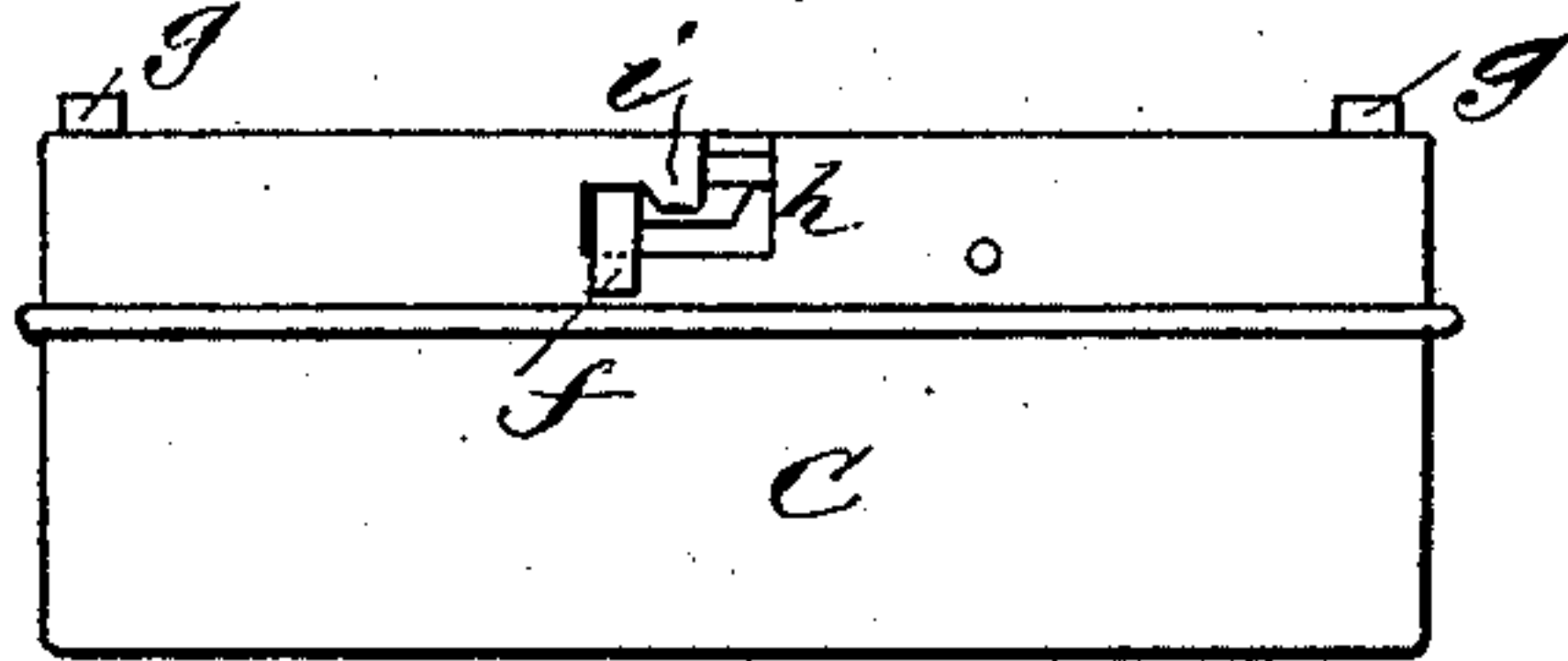


Fig. 3

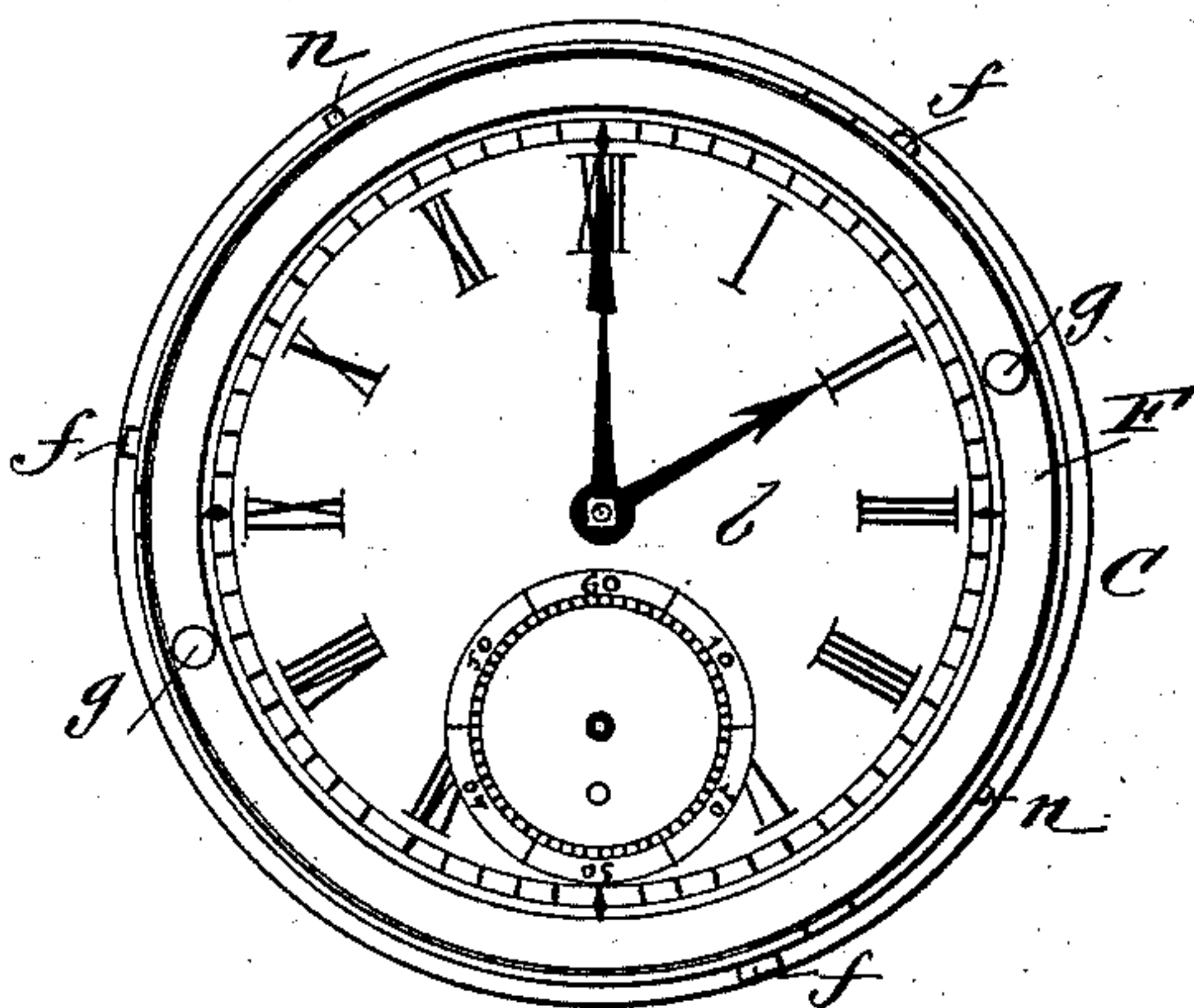


Fig. 4

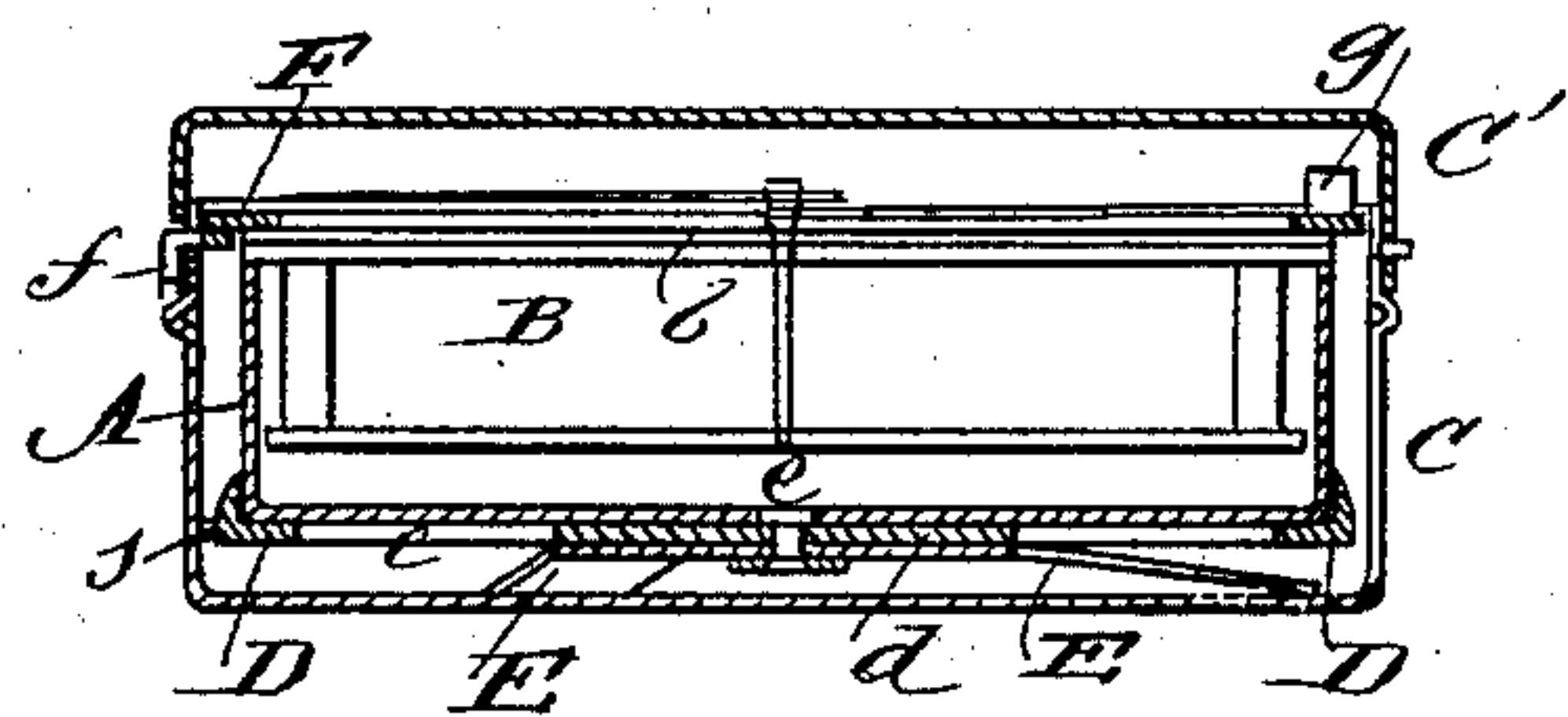


Fig. 6

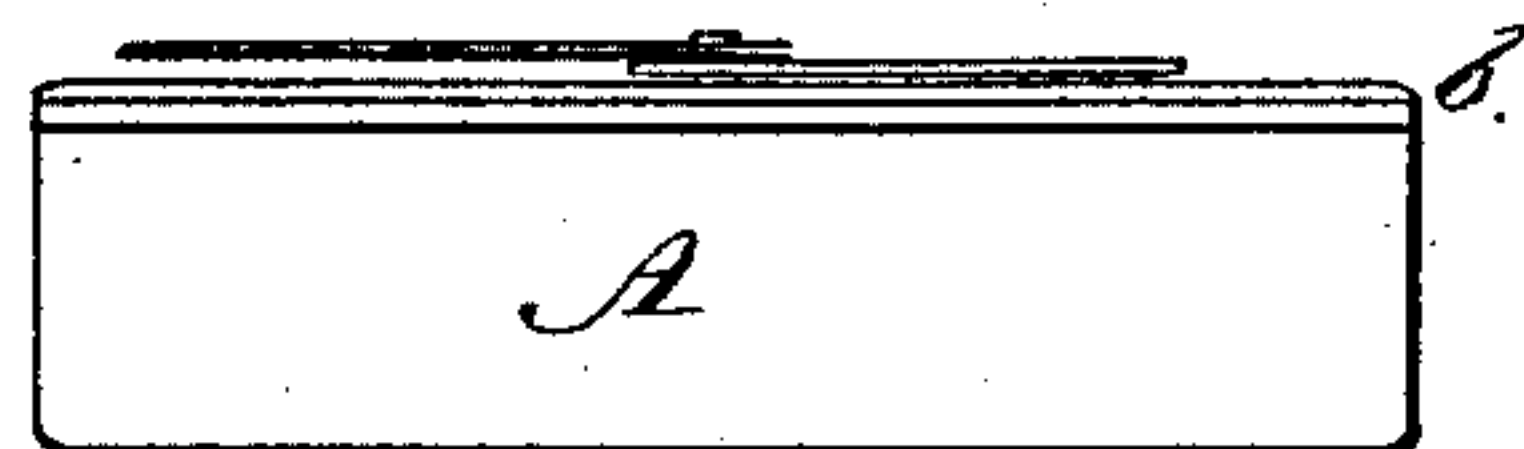


Fig. 5

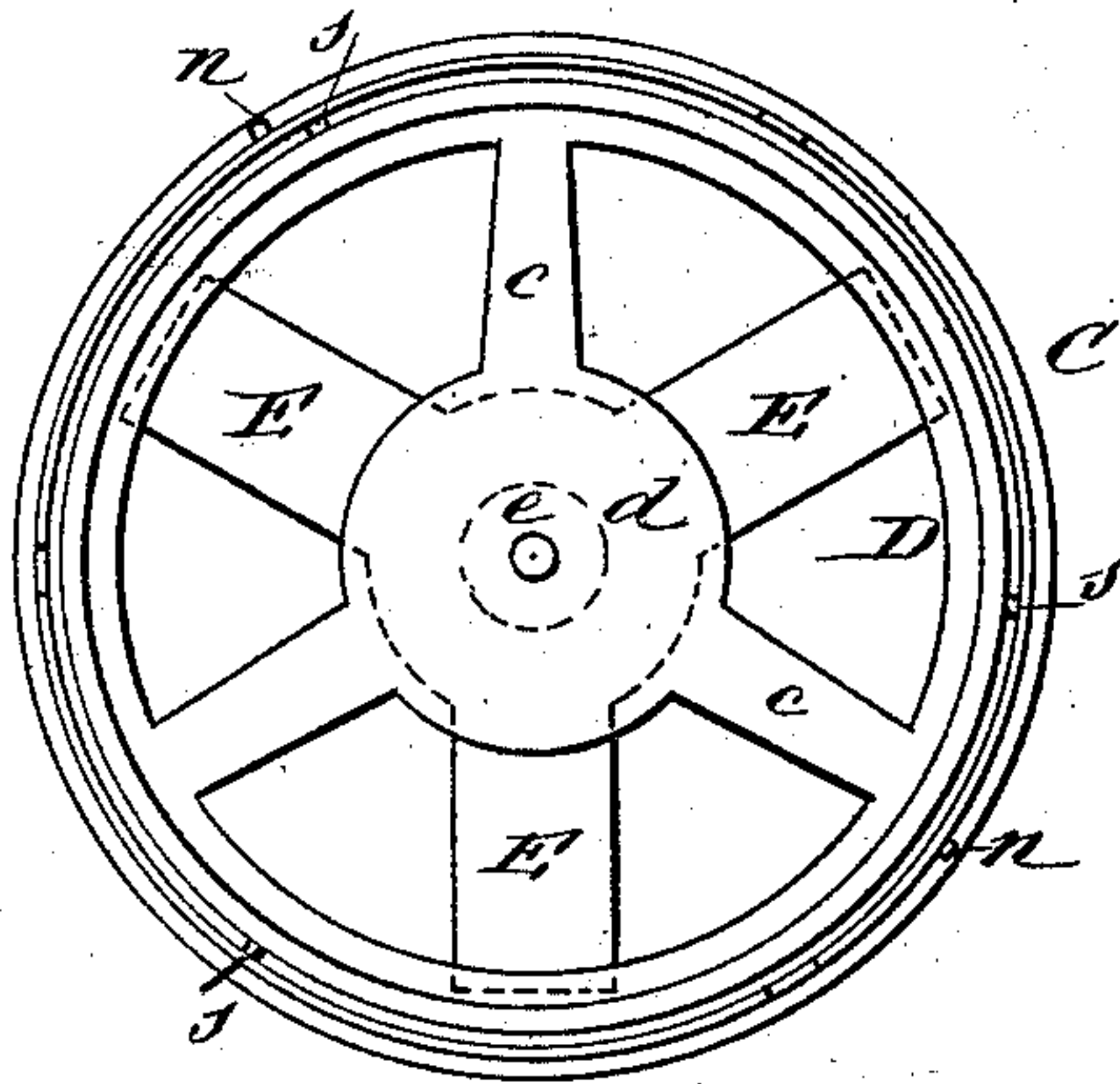


Fig. 7

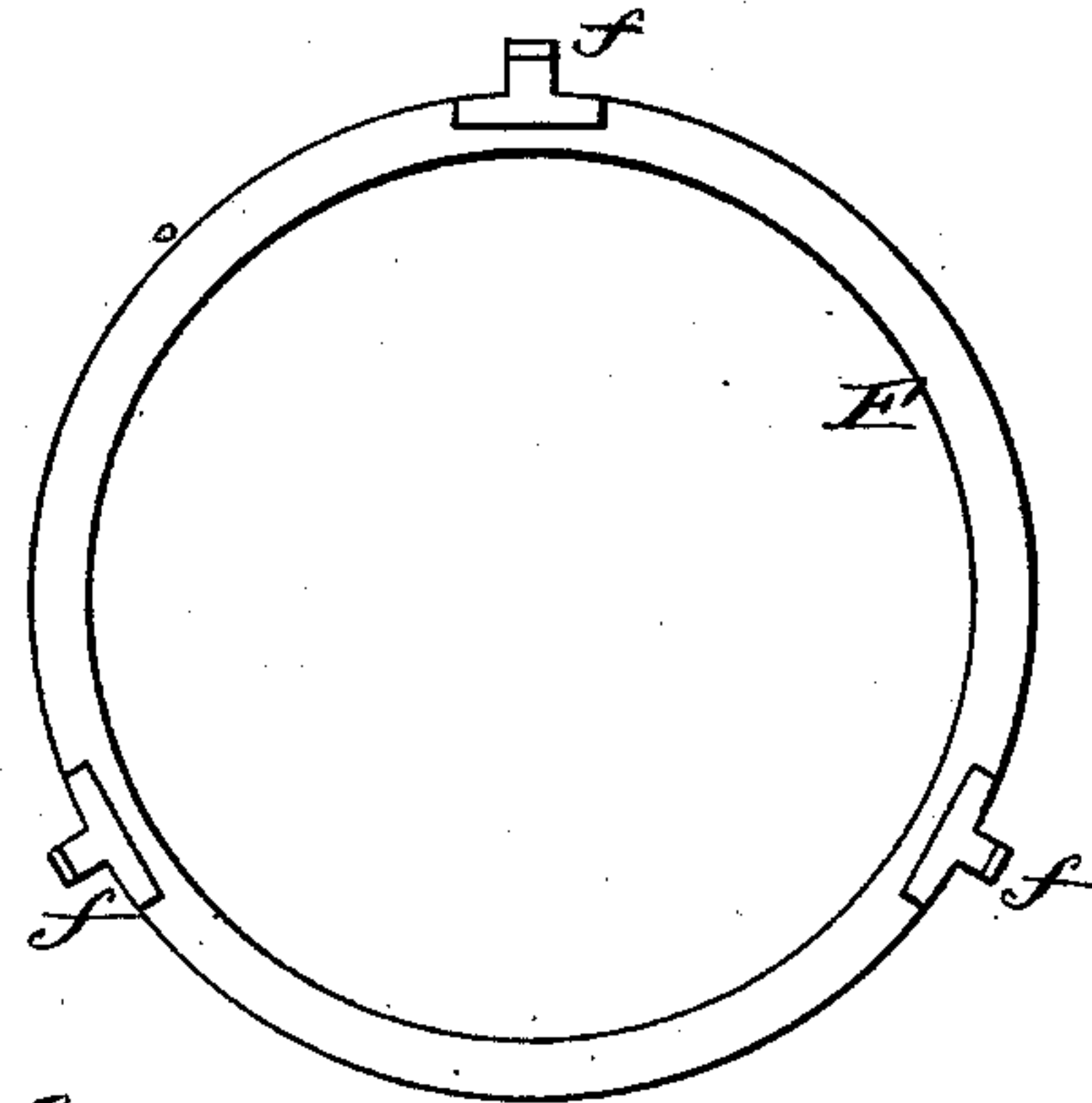
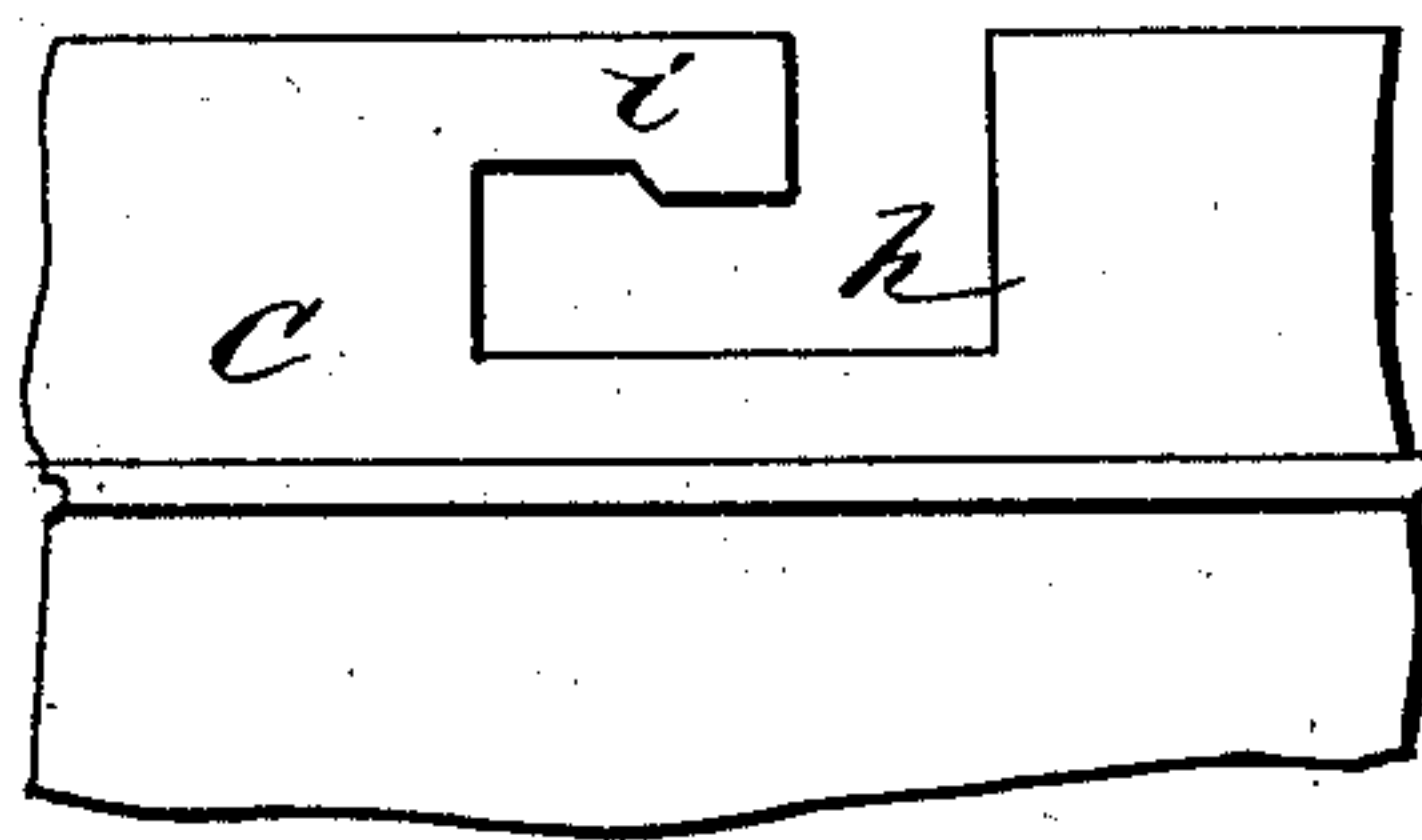


Fig. 8



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UNITED STATES PATENT OFFICE.

ALBERT D. BINGHAM, OF NASHUA, NEW HAMPSHIRE.

WATCH-MOVEMENT BOX.

SPECIFICATION forming part of Letters Patent No. 280,121, dated June 26, 1883.

Application filed March 24, 1883. (Model.)

To all whom it may concern:

Be it known that I, ALBERT D. BINGHAM, of Nashua, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Boxes for Packing Watch-Movements, of which the following is a full, clear, and exact description.

This invention relates to boxes for packing watches, or rather watch-movements, for the market, whereby the necessity for putting them up in paper is avoided, and they are more securely held or kept from being shaken or injured. Ordinarily, in packing American watch-movements for the market, they are put into a tin box and done up in paper, and then the whole put into another tin box provided with a cover. Watch-movement boxes have been made with a spring holder or chuck and with spring retaining-hooks for the better retention of the movement; but my invention essentially differs from such.

The invention consists in certain constructions of an inner and outer box and peculiar constructions and combinations of devices connected therewith, including a retaining-ring, together with a spring forcing the watch-movement against said ring, and locking devices, whereby a more secure and steady packing of said movement is obtained.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a side view of an outer box with its lid on and closed, the same containing the box in which the watch-movement is placed and devices for holding the inner box, with its contained movement, in place. Fig. 2 is a side view of the same with the lid of the outer box removed. Fig. 3 is a top or face view of the parts or devices included in Fig. 2—that is, with the lid of the outer box removed. Fig. 4 represents a transverse section of the whole as shown in Fig. 1, the outer box being closed by its lid. Fig. 5 is a top view of the outer box with a spring-table arranged in the bottom thereof; Fig. 6, a side view of the inner box containing the watch-movement; Fig. 7, an under side or inverted face view of a retaining-ring for the watch-

movement and its box, used in and forming part of my invention; and Fig. 8, a side view, upon a larger scale, of a portion of the outer box, showing the construction of one of the locking-openings in it with which the retaining-ring engages.

A in the drawings indicates a removable inner box, within which the watch-movement B snugly enters or fits, and on the upper edge of which the dial-plate *b* of the movement rests.

C is the outer box, of a capacity to freely receive the inner or movement box, A, within it, and C' its lid.

D is a removable platform or table arranged to fit within the outer box C, and constructed with an upturned rim to receive the bottom of the movement-box A within it. This table may have its rim connected by arm *c* with a nave, *d*, on the center of which is a stud, *e*, that, entering a corresponding hole in the bottom of the movement-box A, centers and steadies said box. This table D has combined with it on its under side a many-leaved or suitable spring, E, that rests on the inner surface of the bottom of the outer box, C, and operates to push the watch-movement B and its box A up within the outer box and against a retaining-ring, F. The platform or table D thus becomes a spring one, the interior of the upturned rim of which serves to guide the box A, containing the movement, to a central position within the table, while its exterior, which is of the same size as the interior of the outer box, C, prevents shake of the contents of said box. If desired, the exterior of the rim of the table or interior of the sides of the outer box may have pins *s* on them, to give a steady or close fit.

The retaining-ring F serves to lock and hold the movement-box A and its contained movement B down within the outer box, C, as against the pressure of the spring E. Said ring is of a width or size to snugly enter down within the mouth end of the box C and to slightly overlap the dial of the movement B, so that when pressed down it carries the movement and its box along with it. This ring F has projecting radially from it on its under side any number of downwardly-pointing hooks or arms, *f*, and may be provided on its upper surface with studs or pins *g*, by which to turn

it when in place. The outer box, C, is constructed in its upper marginal portion with a series of notches or openings, *h*, corresponding in number and arrangement as regards 5 their distance apart with the hooks or arms *f* on the ring F. These openings *h* are each somewhat after the fashion of the opening in a bayonet-fastening, being made to open outward through the upper edge of the box C, 10 and at their bottoms to turn circumferentially to one side, so that when the ring F is pressed downward, carrying the watch-movement and its box along with it, the hooks or arms *f*, by a proper adjustment of the ring, enter down with- 15 in the notches *h* of the outer box, and by suitably turning the ring pass along and within the lateral or circumferential portions of said notches or openings *h*, thus holding the watch-movement and its box against the upward pressure 20 of the spring-table D to its place. But the fastening thus provided does something more: Thus the marginal portions of the outer box, C, over the lateral portions of the slots *h* are made with downward lips at their forward 25 ends, whereby they constitute locking-arms *i*, within which the hooks or arms *f* of the ring F engage and are held engaged by the spring E of the table D to prevent the turning and disengagement of the ring, excepting when it 30 is required to take out the watch-movement and its box, when the ring F is pressed down to force the hooks *f* out of the locking-arms *i*, after which the ring may be turned to disconnect it from the box C. The hooks *f*, it will 35 be observed, also hook or engage over or on the outside of the box C on the under side of the openings *h*, so that they prevent the detachment of the ring F by any accidental springing or bulging of said box at the fastenings 40 consequent upon the box falling or otherwise. In this way or by these several means the watch-movement and its box are very securely held in place free from shake.

If desired, a spring may be arranged to press 45 on top of the dial, and various other changes and additions may be made without altering

the characteristic features of the invention. The lid C' of the outer box, which is a slip one, but may be a hinged one, has locking L-shaped openings *m* in its rim, for engagement with 50 pins *n* on the exterior of said box by suitably turning the lid after it has been fitted over the rim of the box.

An important feature of the invention is the locking-ring F for fastening the movement to 55 its place. This ring, instead of being slipped to its place, as shown, might be hinged to one side of the outer box and fasten on the opposite side thereof, so as to open and close. If 60 it be found that said ring mars the dial, a paper washer may be interposed between them. Such retaining-ring may be used in connection with a permanently attached spring, instead of a removable one, for holding the watch-movement up against it. 65

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the box A, of the subjacent spring-supported table D and the 70 superposed retaining-ring F, adapted to slightly overlap the dial of the movement, as and for the purpose specified.

2. The combination, with an outer box, of the removable inner box, A, the removable spring- 75 table D, and the removable retaining-ring F, essentially as herein set forth.

3. In boxes for packing watch-movements, the spring-table D, provided with a centering-stud, *e*, in combination with the box A, constructed to engage with said stud, essentially 80 as described.

4. The combination of the outer box, C, provided with locking openings and arms *h i*, the inner watch-movement-holding box, A, the 85 spring-table D, and the retaining-ring F, with its hooks *f* constructed to hook over and lock with the outer box, essentially as described.

ALBERT DART BINGHAM.

Witnesses:

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MILLER S. OLDHAM.