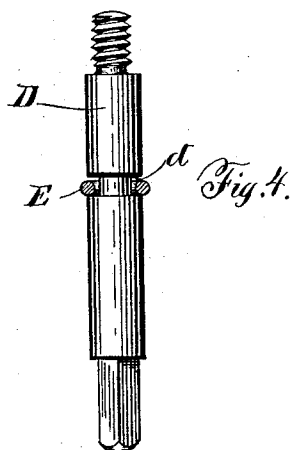
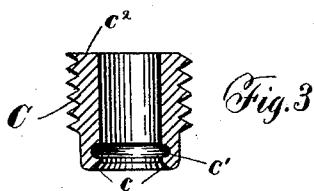
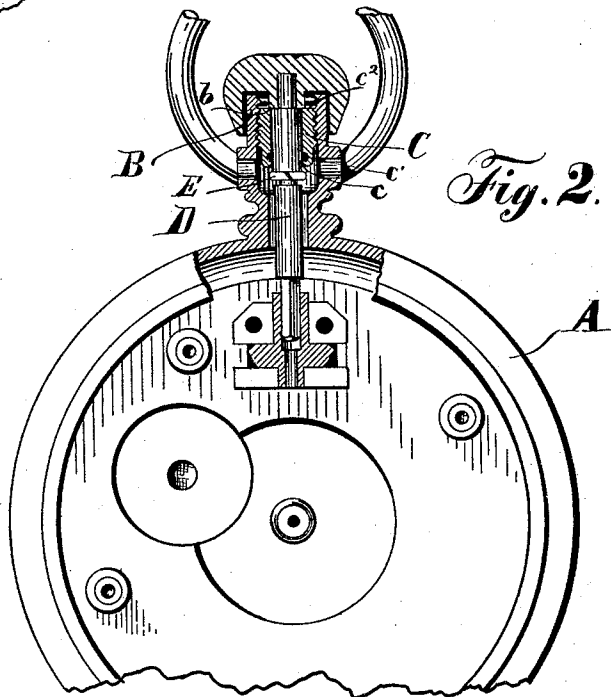
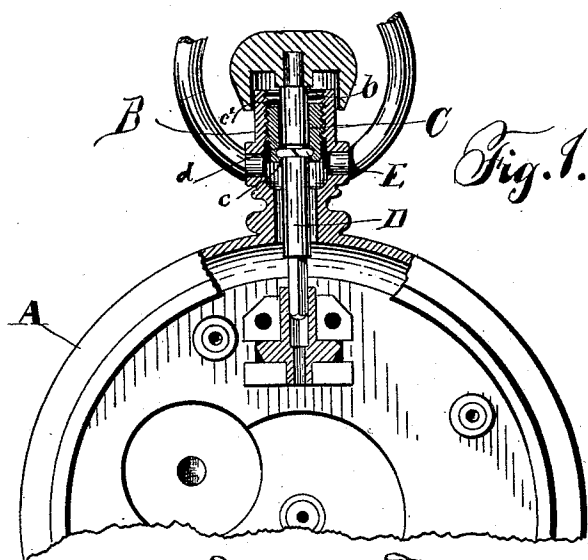


(No Model.)

T. A. HOPKINS.
WATCHCASE PENDANT.

No. 485,581.

Patented Nov. 1, 1892.



Witnesses.
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UNITED STATES PATENT OFFICE.

THOMAS A. HOPKINS, OF ELGIN, ASSIGNOR TO M. C. EPPENSTEIN & CO., OF CHICAGO, ILLINOIS.

WATCHCASE-PENDANT.

SPECIFICATION forming part of Letters Patent No. 485,581, dated November 1, 1892.

Application filed August 6, 1892. Serial No. 442,330. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. HOPKINS, residing at Elgin, Kane county, Illinois, have invented certain new and useful Improvements in Pendants for Watchcases, of which the following is a specification.

The object of my invention is to provide simple and efficient means by which the stem-arbor of a watchcase-pendant may be held at the limit of its different longitudinal motions for the purpose of winding the mainspring or setting the hands of a watch-movement without in any way interfering with the free rotation of the said stem-arbor; and my invention consists in the arrangement and construction of parts hereinafter described and claimed.

Referring to the drawings, Figure 1 represents a vertical sectional view of my improvements, showing the stem-arbor held to its outer limit of longitudinal motion. Fig. 2 is a like view showing the stem-arbor held at its inner limit of longitudinal motion. Figs. 3, 4, and 5 are details of the principal parts of my improvement, which are hereinafter described.

In constructing my improved pendant for watchcases I use the ordinary watchcase-center A, to which is attached a hollow threaded pendant B. Adjustably secured in the pendant is a screw-threaded bushing C, having an axial opening extending through it. The lower edge *c* of the opening is preferably beveled at a suitable angle, while immediately above the same is an internal circular stop-groove *c'*. Fitted loosely in the bore of the bushing C is the stem-arbor D, which has the usual corrugated crown at its outer end, and its inner end is squared to fit the squared opening of the main pinion of the stem-driven train in a watch-movement. The stem-arbor D is provided with an annular groove *d*, into which is fitted a cylindrical ring E, the ends of which, not being joined together, leave an opening *e*, which permits the ring to be compressed into a smaller circle when it impinges the beveled edge *c* of the threaded bushing C, while the stem-arbor is being drawn outwardly until it passes through into the circular groove *c'*, when it again expands and pre-

vents any further outward motion of the stem-arbor. It will be noticed by an examination of the drawings that the inner diameter of the ring E is somewhat larger than the diameter of the groove *d*, so that the stem-arbor is held loosely and there is no friction to overcome in rotating the same. In pushing in the stem-arbor the ring E is again compressed until it passes through the narrow portion of the bore, when it again expands, thereby preventing the outward movement of the stem-arbor again until more than ordinary force is used.

The stem-arbor is prevented from being pushed in too far by the face *b* of the watch-crown impinging against the upper edge *c*² of the threaded bushing. There is a sufficient amount of extra play left between these parts, so that the device can be used in connection with hunting-case watches as well as in open-face watchcases.

I am aware of the fact that numerous devices have been patented for accomplishing similar results as my invention by altogether different means, and while I do not claim my invention in the broadest sense I do not intend to limit myself to the exact form or arrangement of parts as are hereinbefore shown and described, but do depart therefrom as necessity may demand or occasion warrant without departing from the spirit of the invention.

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

As an improvement in pendants for watchcases, in combination with a hollow pendant, a bushing adjustably secured therein, provided with an internal stop-groove, a compressible ring mounted loosely on the stem-arbor and adapted to spring in and out of said groove, and the longitudinally-rotatable stem-arbor carrying the compressible ring, substantially as described.

THOMAS A. HOPKINS.

Witnesses:

OTTO A. STARKE,
M. ABRAHAM.