

J. H. MASSEY.
WATCHMEN'S TIME DETECTOR.

No. 178,374.

Patented June 6, 1876.

Fig: 1.

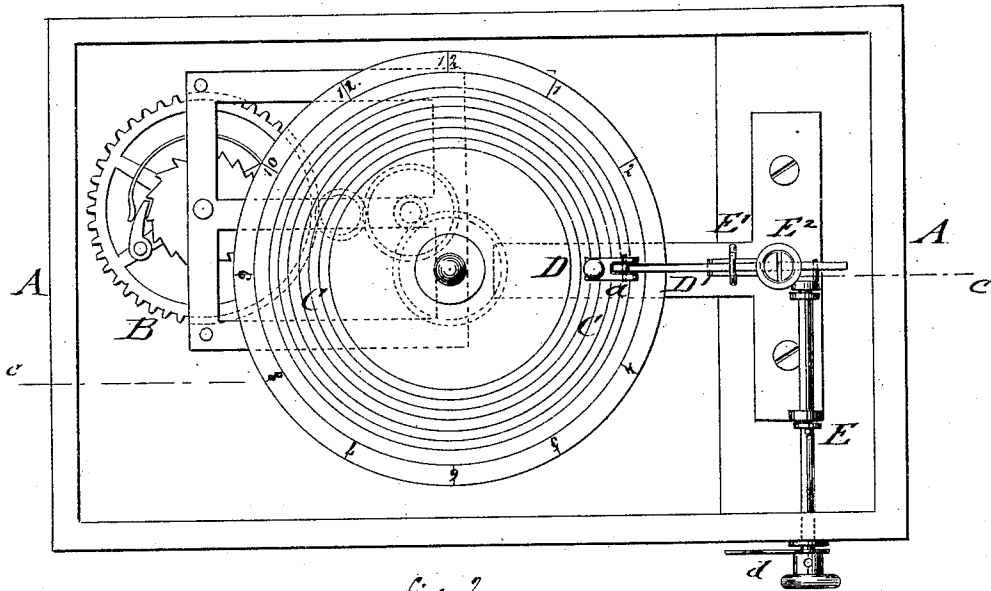
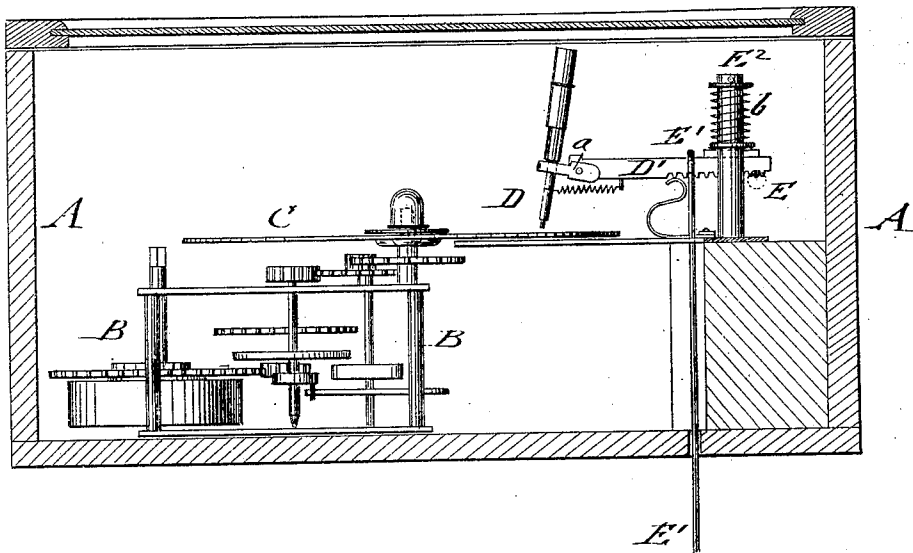


Fig: 2.



WITNESSES:

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JACOB H. MASSEY, OF ALLENTOWN, PENNSYLVANIA.

IMPROVEMENT IN WATCHMEN'S TIME-DETECTERS.

Specification forming part of Letters Patent No. **178,374**, dated June 6, 1876; application filed May 16, 1876.

To all whom it may concern:

Be it known that I, JACOB H. MASSEY, of Allentown, Lehigh county, and State of Pennsylvania, have invented a new and Improved Watchman's Time-Detector, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a vertical longitudinal section, of my improved watchman's time-detector.

Similar letters of reference indicate corresponding parts.

My invention relates to a watchman's time-detector, which is applicable to a building for inside and outside use, and which furnishes in very reliable and simple manner the exact record of the beats of the watchman.

My invention consists of a dial with concentric circles, revolved by a clock-train, and operated by a suitable spring-marking device, in connection with a pull from the inside or outside of the building. The marking device is set for each day by a crank-shaft engaging a rack of the marker.

In the drawing, A represents the casing, and B the clock-train, of my improved watchman's time-detector. The clock-train B operates a dial, C, with concentric circles, of which one is intended for the record of each day of the week, the clock-train being preferably wound up for a week, so that the detector may be used for a week without replacing the dial or winding up the clock-train. The dial has also radial subdivisions, to indicate the hours of the day. It is readily taken out and replaced by detaching the screw-button and washer, by which it is attached to the hour-wheel.

The marking device D consists of a lead-pencil, pin, or its equivalent, which is secured to a pivoted and spring-acted support or holder, *a*, of a swinging and spring-acted bar, *D*¹,

that is pulled by a wire or other attachment, *E*¹, from the outside of the casing, the wire-pull being continued through the wall to the outside of the building, when the watchman has to work the detector from the outside. The marker-bar *D*¹ is toothed in the shape of a rack, and operated to slide in a slotted post, *E*², by means of a crank-shaft, *E*, whose pin or crank engages *seriatim* the teeth of the marker-bar. A spiral spring, *b*, of the post *E*² bears on the top of the marker-bar, and allows the same to "give" to the turns of the crank-shaft, being instantly carried down when the forward or backward motion of the marker-bar for the length of one tooth is completed.

The crank-shaft *E* is operated by a button and indicating device, *d*, from the outside of the casing, for the purpose of setting the marking device, from day to day, from one circle to the other on the dial, and bringing the record of each day into a separate circle. This forms a great convenience, as it does not require the putting in of a new dial for each day, and facilitates the use of the detector.

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

1. The combination, with a revolving hour-dial, having concentric circles, of a swinging and spring-acted marking device, operated by a pull attachment from the outside, substantially as herein shown and described.

2. The combination of the sliding and toothed marker-bar with the slotted outside post and top spring, and with a crank-shaft engaging the teeth, to adjust the marker to the circles of the dial, substantially as herein shown and described.

JACOB H. MASSEY.

Witnesses:

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