T. D. OSBORNE & W. W. Le GRANDE.

Watchmen's Time-Check.

No. 167,925. Patented Sept. 21, 1875.

Fig: 1.

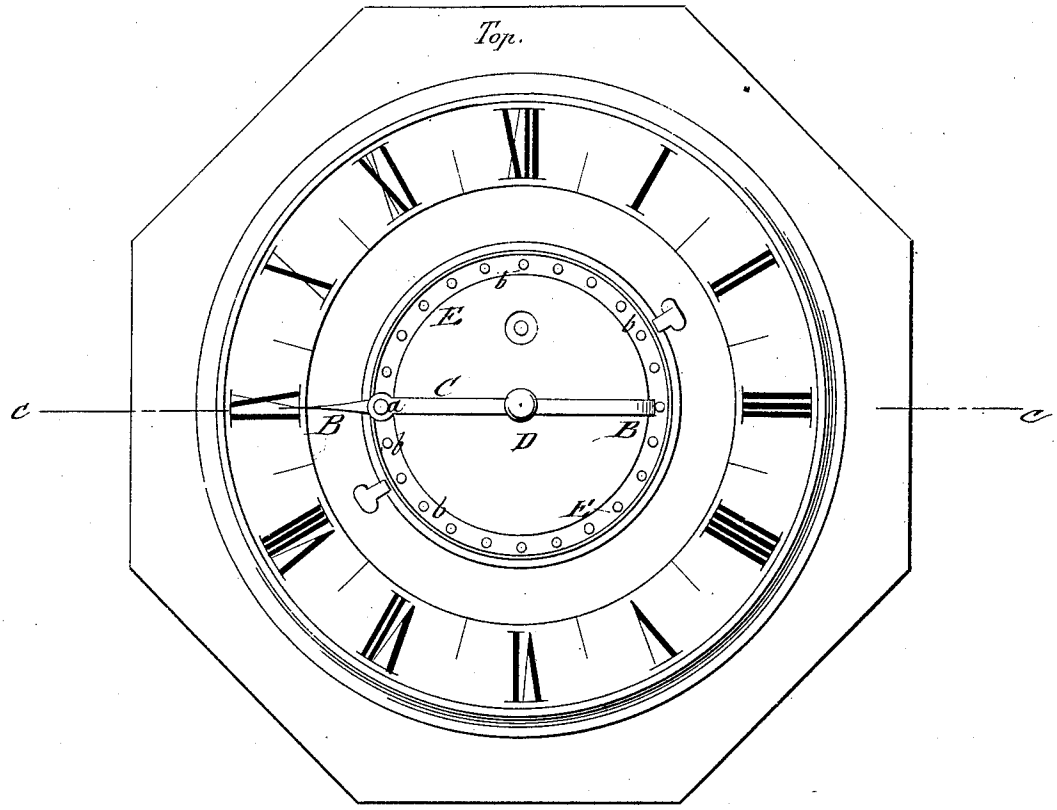
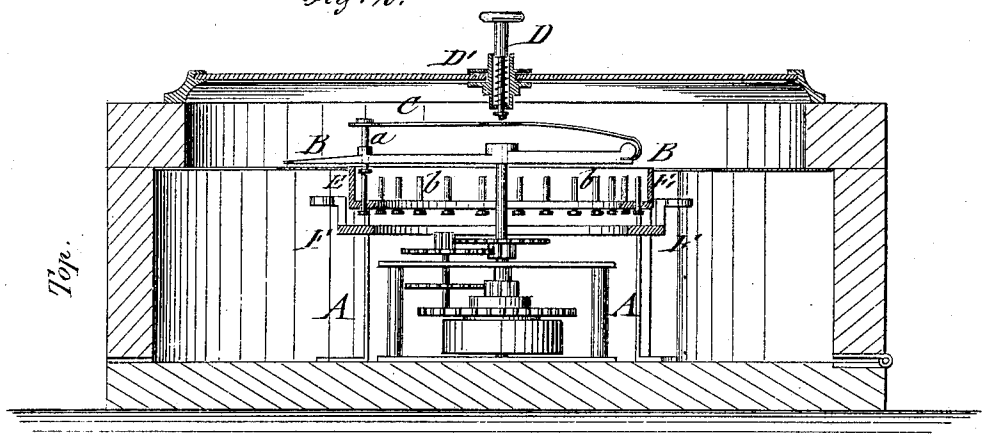


Fig: 2.



WITNESSES:

Chas. Nida.
A. F. Terry

INVENTOR:

T. D. Osborne and
BY W. W. Le Grande
Munn & Co
ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE

THOMAS D. OSBORNE AND WILLIAM W. LE GRANDE, OF LOUISVILLE, KY.

IMPROVEMENT IN WATCHMEN'S TIME-CHECKS.

Specification forming part of Letters Patent No. **167,925**, dated September 21, 1875; application filed August 21, 1875.

To all whom it may concern:

Be it known that we, THOMAS D. OSBORNE and WILLIAM W. LE GRANDE, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved Watchman's Time-Check, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a vertical central section on the line *c c*, Fig. 1, of our improved watchman's time-check.

Similar letters of reference indicate corresponding parts.

Our invention relates to a simple time-registering attachment to an office or smaller clock by which the watchman may be readily detected when he does not regularly perform his duties, the attachment being of simple, cheap, and convenient construction.

The invention consists of a perforated guide-ring, with sliding pins set therein, that are depressed by a registering-pin of a spring applied to the hour-hand, and operated by a central sliding button of the glass front. A sliding base-ring sets the registering-pins forward again for renewed action.

In the drawing, A represents a common clock-train of large or small construction, according as the same is to be used as an office-clock, or merely for registering. The clock-train is incased in suitable manner, and locked securely, so that no meddling with the interior parts is possible. The clock is hung to any suitable place on the wall, and provided with a glass front, having a central guide-sleeve, D′, for the sliding spring-pin and button D, that is depressed by the watchman at the appointed periods of time. The sliding pin D acts on a spring, C, that is applied at one end of the index-hand B of the clock-train, the other end being provided with a pin, *a*, with broad end, which passes through an eye of the hand to be brought successively in contact with a series of sliding pins, *b*, of a guide-ring, E, attached to the clock-frame.

The position and number of the pins correspond to the periods of time at which the watchman is compelled to register, the spring-pin of the hand allowing only the pressing back of the pins when the hand indicates the proper time, but giving, by the size of the pins, a few minutes' margin before or after the exact time, during which the pins may be set to allow for delays, in case the watchman is not promptly on hand to work the register. A sliding base-ring, F, is moved forward by side lugs when the clock is placed in order for the weight, and carries all the check-pins forward until their back-collars come in contact with the guide-ring.

Any one of the pins not depressed shows at an instant the neglect of the watchman to perform his duty at the required time, and furnishes thus a very reliable time-check by a very simple attachment.

In place of the pins a paper disk may be used, that is perforated by the registering-pin of the hand, but the working of the sliding pins is easier, and less liable to retard the action of the clock-train.

The dial may be inside or outside of the guide-ring, as desired, and thus a perfect clock and reliable time-check obtained.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. In watchman's time-checks, the combination, with the hour-hand of the clock, and a band-spring and pin applied thereto, of a spring-depressing button, of the glass front, and of a series of time-registering pins, sliding in a guide-ring, arranged to be moved back at fixed periods of time, substantially in the manner and for the purpose set forth.

2. The combination, with the guide-rings and sliding pins, of a sliding base-ring, that carries the pins forward again for renewed action, substantially as set forth.

3. The hour-indicating hand, having eye or perforation for passage of operating-pin at end of band-spring to strike the registering-pin below at or about the fixed time, substantially as described.

THOS. D. OSBORNE.
WILLIAM W. LE GRANDE.

Witnesses:
B. F. D. FITCH,
JOHN BRODERICK.