

G. F. BALDRY.
WATCHMAN'S CLOCK.
APPLICATION FILED MAY 16, 1910.

1,045,497.

Patented Nov. 26, 1912.

Fig. 1.

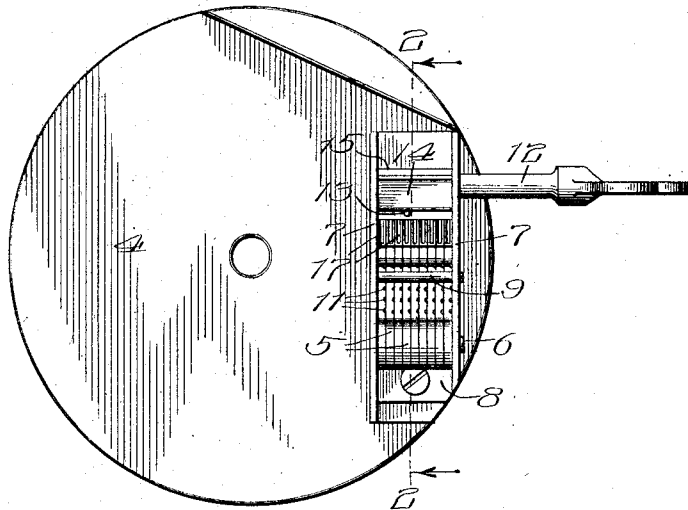


Fig. 2.

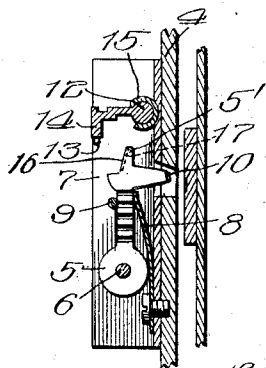


Fig. 3.

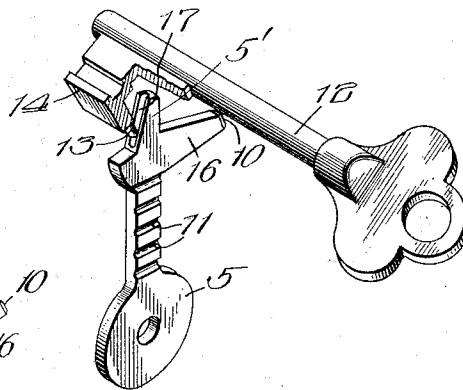
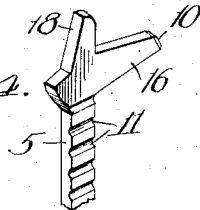


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE F. BALDRY, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO FRANCIS W. BARNES, OF CHICAGO, ILLINOIS.

WATCHMAN'S CLOCK.

1,045,497.

Specification of Letters Patent.

Patented Nov. 26, 1912.

Application filed May 16, 1910. Serial No. 561,862.

To all whom it may concern:

Be it known that I, GEORGE F. BALDRY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Watchmen's Clocks, of which the following is a specification.

This invention relates to improvements in watchmen's clocks and its object is to improve the construction of the marking arms and to facilitate their operation.

A further object of the invention is to insure the proper engagement of the key with the marking arm which it is designed to operate, and also to insure the proper operation of the marking arm and avoid any tendency thereof to bind or stick.

In the accompanying drawing I have illustrated only so much of a watchman's clock as is necessary to understand the invention and referring thereto Figure 1 is an elevation. Fig. 2 is a sectional view on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of a marking arm and its key, the latter being shown partly in section. Fig. 4 is a detail view showing the marking arm provided with an inclined plain surface to be engaged by the key.

Referring to the drawings, 4 is a plate and 5 are the marking arms pivotally mounted on a pin 6 fastened in the supports 7. The marking arms are normally held in elevated position by a plate spring 8 against the transverse stop 9 (Fig. 2).

Any number of marking arms may be employed and they are substantial duplicates of each other except that each is provided with a punch or die 10, or other suitable means, to make a mark or impression distinguished in some way from the others. The marking arms are mounted side by side on the pivot pin between the supports 7 and I preferably provide each marking arm, on one side thereof, with a plurality of grooves 11 to reduce the frictional engaging surfaces and to receive a lubricant which will further reduce the friction and insure an easy movement of each of the arms.

The operating key 12 is provided with a stud 13 on its flange 14. The number of

these operating keys, one of which is located at each station, will correspond to the number of the marking arms and the studs on the keys are located to engage the corresponding marking arm. The end of the key and the flange is adapted to be inserted through an opening in one of the supports 7 into a guide or socket 15 between said supports. The flange is made of a length to fit between the supports 7 so that the key may be readily operated to bring the stud in engagement with its proper marking arm. To facilitate the operation of the key and marking arm I provide the outer end or extension 5' of the marking arm with an inclined surface 16 and a longitudinal groove 17 therein to receive the stud. The stud is preferably rounded at its outer end to fit the groove and the latter insures the proper engagement of the stud with the marking arm and the proper movement of said arm. The stud naturally centers itself in the groove and thereby prevents any tendency of the marking arm to twist or move torsionally in operation. By thus centering the stud in the groove of the marking arm the tendency is to keep the marking arm in an upright position during its movement and form a guide therefor, thereby maintaining the marking arms in their proper position to produce a clear and distinct impression.

While I prefer to employ the groove 17 as hereinbefore described this groove may be omitted and the extension 5' of the marking arm provided with a plain flat inclined surface 18 to be engaged by the stud 13 of the key, as shown in Fig. 4.

What I claim and desire to secure by Letters Patent is:

1. In a watchman's clock, the combination of a marking arm having a groove therein, and a key having a stud adapted to engage said groove.

2. In a watchman's clock, the combination of a pivoted marking arm having its outer end provided with an inclined surface and a longitudinal groove therein, and an operating key having a stud with a rounded outer end to engage and operate in said groove.

3. In a watchman's clock, the combination

of a movable marking arm provided with a laterally extending marking die and having a longitudinal extension beyond the marking die, a key socket and a key positioned in
5 said socket and provided with a stud, said socket being so disposed that said stud during the operative movement of the key contacts with the longitudinal extension of said arm and moves away from the axis of the marking die.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
