

N. M. LOWE.  
OSCILLATING REGISTERS.

No. 195,031.

Patented Sept. 11, 1877

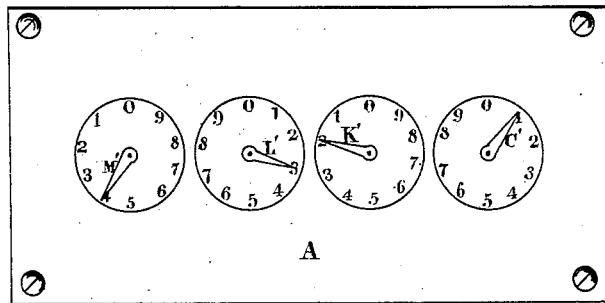


Fig. 1.

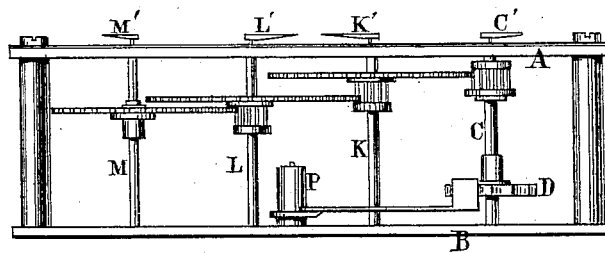


Fig. 2.

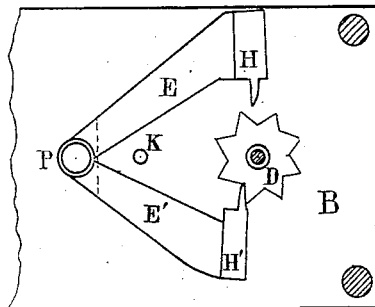


Fig. 3.

WITNESSES

*Frank G. Parker.*  
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INVENTOR

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*per William Edson Atty.*

# UNITED STATES PATENT OFFICE.

NATHANIEL M. LOWE, OF BOSTON, ASSIGNOR TO JOHN H. WRIGHT, OF  
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## IMPROVEMENT IN OSCILLATING REGISTERS.

Specification forming part of Letters Patent No. **195,031**, dated September 11, 1877; application filed  
November 27, 1876.

*To all whom it may concern:*

Be it known that I, NATHANIEL M. LOWE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Oscillation-Registry Device, of which the following is a specification:

The nature of my invention consists in suspending on arbors, directly or indirectly, a registering device, within which device I have an anchor-escapement, the arms of which are loaded, so that at each oscillation of the device the escapement will swing, and, acting on the escapement-wheel and train, will cause a count to be recorded.

The object of this invention is to afford a ready and convenient instrument to apply to any oscillating body for the purpose of recording the number of oscillations.

Referring to the drawings, Figure 1 is an elevation, showing a set of recording-dials. Fig. 2 is an elevation of my invention, showing the train of wheels and the escapement. Fig. 3 is a plan, showing the escapement and escapement-wheel.

Let A and B represent the two plates to which the operating parts are affixed.

C', K', L', and M', Figs. 1 and 2, are pointers, which, in connection with the numbered

dials, (see Fig. 1,) indicate in the usual manner of registering devices.

D, Figs. 2 and 3, is an escapement-wheel, connected to the train C K L M, as shown in Fig. 2.

E E' show an anchor-escapement having its arms loaded near the detents, as shown at H and H', Fig. 3. This escapement is pivoted at P, Figs. 2 and 3.

My invention is to be used as follows: The device is attached to any oscillating body in such a manner that the motion of the body will cause the anchor-escapement E E' to swing back and forth. This will cause the wheel D to revolve, and thus give motion to the registering-pointers.

Having now described the construction and operation of my invention, what I claim is as follows:

The automatic registering device consisting of the weighted anchor-escapement E, in combination with an escapement-wheel and recording-train, all to operate substantially as described, and for the purpose set forth.

NATHANIEL M. LOWE.

Witnesses:

NATHL. EVANS,  
WILLIAM EDSON.