

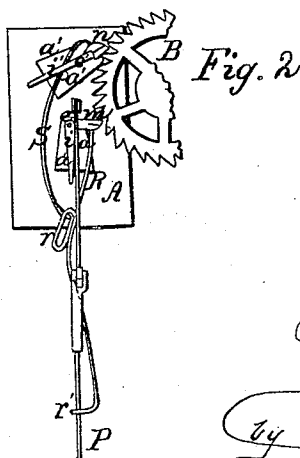
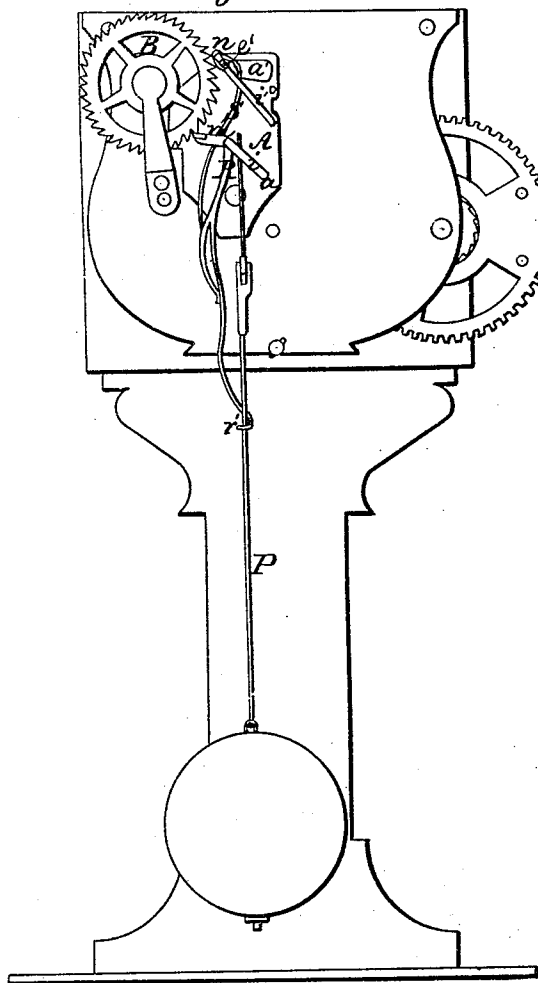
*M. Tromly.*

*Clock Escapement.*

*N<sup>o</sup> 94,148.*

*Patented Aug. 24, 1869.*

*Fig. 1*



*Witnesses*  
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*" "*

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# United States Patent Office.

MICHAEL TROMLY, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND W. L. HASBROUCK, OF SAME PLACE.

Letters Patent No. 94,148, dated August 24, 1869.

## IMPROVEMENT IN CLOCK-ESCAPEMENT.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MICHAEL TROMLY, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and improved Clock-Escapement; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view.

Figure 2 is a similar view, representing a slight modification.

The object of this invention is to improve the pendulum-escapement of a clock, in such a manner as to diminish the rigidity and consequent friction of the working-parts, and to secure greater smoothness and uniformity of action, and more ready and perfect adjustability.

In the drawings—

A is the supporting-plate.

B, the escapement-wheel.

B, the pendulum-rod.

*m*, the lower jaw of the pallet, articulated, at *e*, to a bent rod, *i*, and a raised bed or plate, *a*, attached to the large plate A.

*n*, the upper jaw of the pallet, articulated, at *e'*, to a bent rod, *i'*, and a raised bed or plate, *a'*, also attached to plate A.

R is a rod, rigidly attached to the lower jaw, and looped at *r* and *r'*; and S is a rod rigidly attached to

the upper jaw, bent so as to work without coming in contact with the parts *i i'*, and provided with a spur, *s*, which projects into the loop *r*, so that as the pendulum, extending through the lower loop *r'*, oscillates the rod R, the latter, in its turn, oscillates the rod S, and the two jaws *m n* are caused to operate properly in connection with the teeth of the escapement-wheel.

It is evident, that by bending either the rod R or S slightly, the jaws of the pallet can be caused to assume different inclinations to the escapement-wheel, and the action of the apparatus can be adjusted at pleasure.

It is further evident, that by supporting and pivoting the jaws independently of each other, and connecting them by the slightly-elastic rods, the rigidity of the parts is so overcome that their whole action will be rendered more smooth, easy, and uniform than heretofore.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the two jaws, constructed, pivoted, and operating as herein described, with the rods R S, or their mechanical equivalents, whereby the rods are connected to each other and to the pendulum, substantially as described.

MICHAEL TROMLY.

Witnesses:

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