

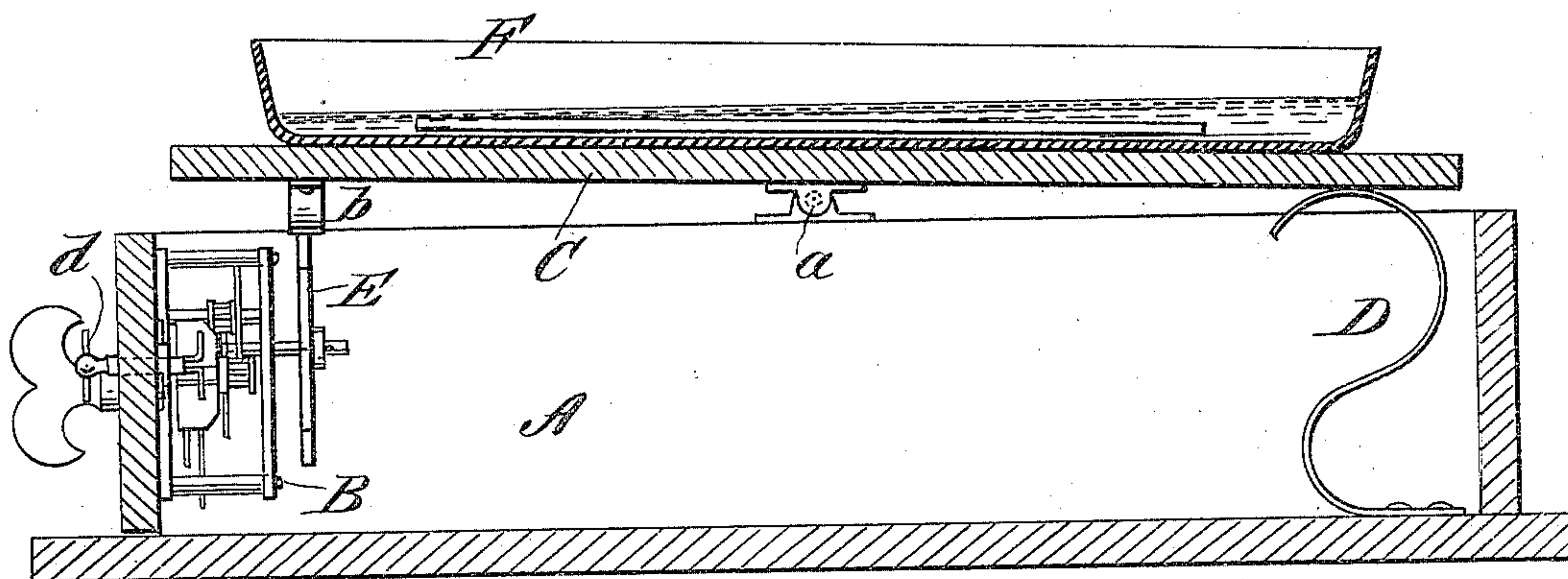
(No Model.)

G. M. REED.  
MECHANICAL MOVEMENT.

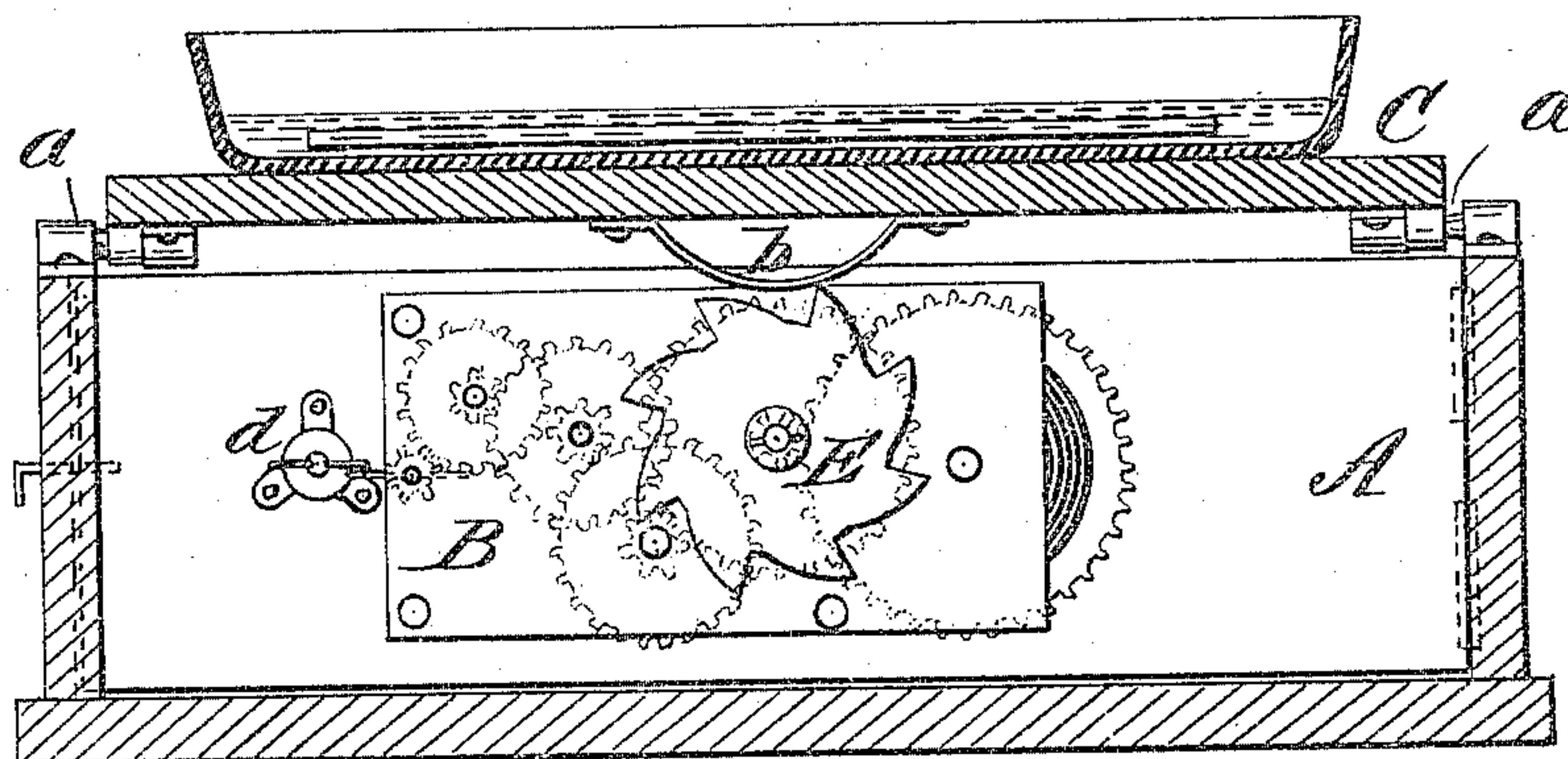
No. 311,447.

Patented Jan. 27, 1885.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*Donn Twitchell.*  
*C. Sedgwick*

INVENTOR:

*G. M. Reed*

BY

*Munn & Co*

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

GEORGE MELVILLE REED, OF LEADVILLE, COLORADO.

## MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 311,447, dated January 27, 1885.

Application filed June 27, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE M. REED, of Leadville, in the county of Lake and State of Colorado, have invented a new and Improved Mechanical Movement, of which the following is a full, clear, and exact description.

The object of my invention is to provide an apparatus having a rocking or oscillating platform or table, or a motion simulating that given by hand to the trays used in developing dry plates and other photographic work, to the pans of gold-concentrators, and any work in the arts where it is required to constantly stir or agitate liquid or sem-liquid material.

It consists in a balanced table or platform combined with mechanism that is constructed to rock the table on its pivots, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal section of the table and the box containing the movement, and Fig. 2 is a cross-section of the same.

In the form shown the machine is specially adapted for photographic work.

A is a box or case containing a spring-motor or clock-work, B. C is a table or platform mounted at the top of the box on side pivots or trunnions, *a*, placed at its mid-length, so that the table is balanced, or nearly so. D is a spring of S form, or it may be a spring of any kind, placed to support one end of table C, and E is a cam or star wheel or disk on the arbor of the motor B, beneath the opposite end of the table. A wearing-plate, *b*, on the under side of the table takes upon the wheel E, so that when at rest the table is sustained in a horizontal position by the wheel and the spring D.

The motor may be driven by a spring, a weight, or other means, or the shaft carrying the cam-wheel may be connected to a motor of any known type outside the box to give rotation to the wheel.

In operation, as the cam revolves, it raises one end of the table as each point or projec-

tion passes, and the return movement is given by the spring. These movements will be more or less rapid, according to the speed of rotation and form of the cam.

For stopping the machine there is a stop, *d*, fitted to turn, for engaging the fan of the motor.

For photographic work the tray is placed on the table, as shown at F, with the liquid and plate in it, and the machine started. The effect is to give a wave-like motion of the liquid back and forth over the plate with much more uniformity than when the tray is held in the hands, and with the additional advantage that the operator's time is not taken up with the work. In this class of work the machine is adapted for developing, intensifying, and washing dry plates, for toning and washing prints, and developing sensitive printing-paper.

In the work of gold concentration, and for other work in which a similar motion is required, the machine will be constructed larger and in the form necessary to suit the circumstances.

The motor is attached to the hinged end of the box, so as to swing out with the end for inspection and cleaning.

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

1. The mechanical movement constructed, substantially as described, with a pivoted or balanced table, and mechanism for giving a rocking or oscillating motion to the table, as specified.

2. The combination of the balanced table or platform C, spring D, and cam wheel or disk E, substantially as described, for operation as specified.

3. The combination of motor B, cam-wheel E, and spring D with a balanced table, substantially as described, for giving a rocking motion to the table.

GEORGE MELVILLE REED.

Witnesses:

GEORGE W. VAUGHAN,  
CHAS. L. BROWN.