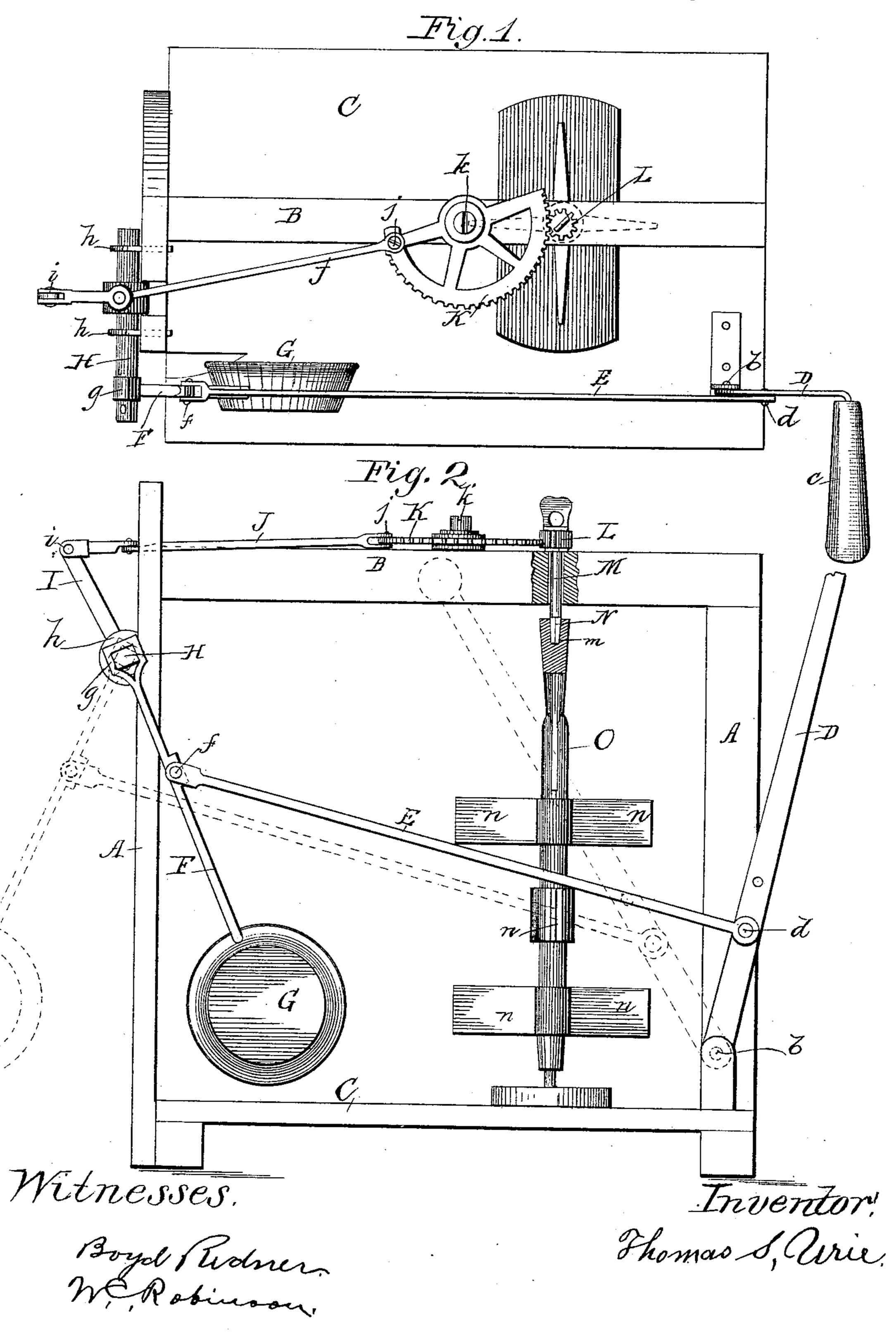
T. S. URIE.

CHURN.

No. 386,616.

Patented July 24, 1888.



United States Patent Office.

THOMAS S. URIE, OF CARSON CITY, MICHIGAN.

CHURN.

SPECIFICATION forming part of Letters Patent No. 386,616, dated July 24, 1888.

Application filed July 2, 1887. Serial No. 243,284. (Model.)

To all whom it may concern:

Be it known that I, THOMAS S. URIE, a citizen of the United States, residing at Carson City, Montcalm county, Michigan, have invented a new and useful Churn, of which the following is a specification.

My invention relates to improvements in devices for churning cream into butter by the use of a hand-lever working conjunctively with to a pendulum-weight and a perpendicular rotating dash rotating each way alternately.

The invention consists in the matter hereinafter described, and particularly pointed out in the claim.

In the drawings, Figure 1 represents a planview, and Fig. 2 a side view.

Similar letters refer to similar parts throughout the views. The standards A A, the crossbeam B, and the bottom board, C, represent 20 the frame. The lever D, pivoted at b, is worked with the hand at the handle c. The connecting-rod E is pivotally connected to the lever D at d, and to the pendulum-rod F at f, and is moved by the lever D and imparts motion 25 to the pendulum rod F, causing the weight G at the bottom of the same to oscillate or swing in conjunction with the lever D. The pendulum-rod F is made fast to and hung on a short cross-rod, H, at g. This cross-rod H is held 30 to the standard A by passing through staples h in such a way as to rotate freely. At the center of the cross-rod H, and perpendicular to the same is the upright standard I, which is moved by the cross-rod H. The rod J (see 35 Fig. 2) is pivotally connected to the standard I at i, and to the large cog-wheel K at j, thereby

giving motion to cog-wheel K. The cog-wheel K turns on a pivot-pin, k, which is fastened to cross-beam B. The cog-wheel K meshes with the small cog-wheel L and imparts motion to 40 the same. The small cog-wheel L is fastened to a short shaft, M, which shaft passes through a boxing in cross-beam B.

The small cog·wheel L and short shaft M can be lifted out and taken from the boxing in 45 the cross-beam B.

The lower end of the short shaft M is squared, and when it is in its proper position the squared portion N enters a square socket, m, in dashershaft O. The socket m is in the upper end of 50 the dasher-shaft O.

The short shaft M turns the dasher having the paddles or blades n n. The lower end of the dasher-shaft O rests and turns in a socket, which is in a small piece of timber made fast 55 to the bottom of the churn. When the lever D is moved back and forth, it causes the dasher to revolve alternately in opposite directions.

Having thus described my invention, what I claim as new, and desire to secure by Letters 60 Patent, is—

The combination of the dasher-shaft M, carrying cog-wheel L, the gear K, meshing therewith, the pivoted hand-lever D, connecting-rod E, the pendulum-rod F, shaft H, upright 65 I, and rod J, pivoted to the upright and gear, as set forth.

THOMAS S. URIE.

Witnesses:

C. O. TRASK, W. A. WEBBER.