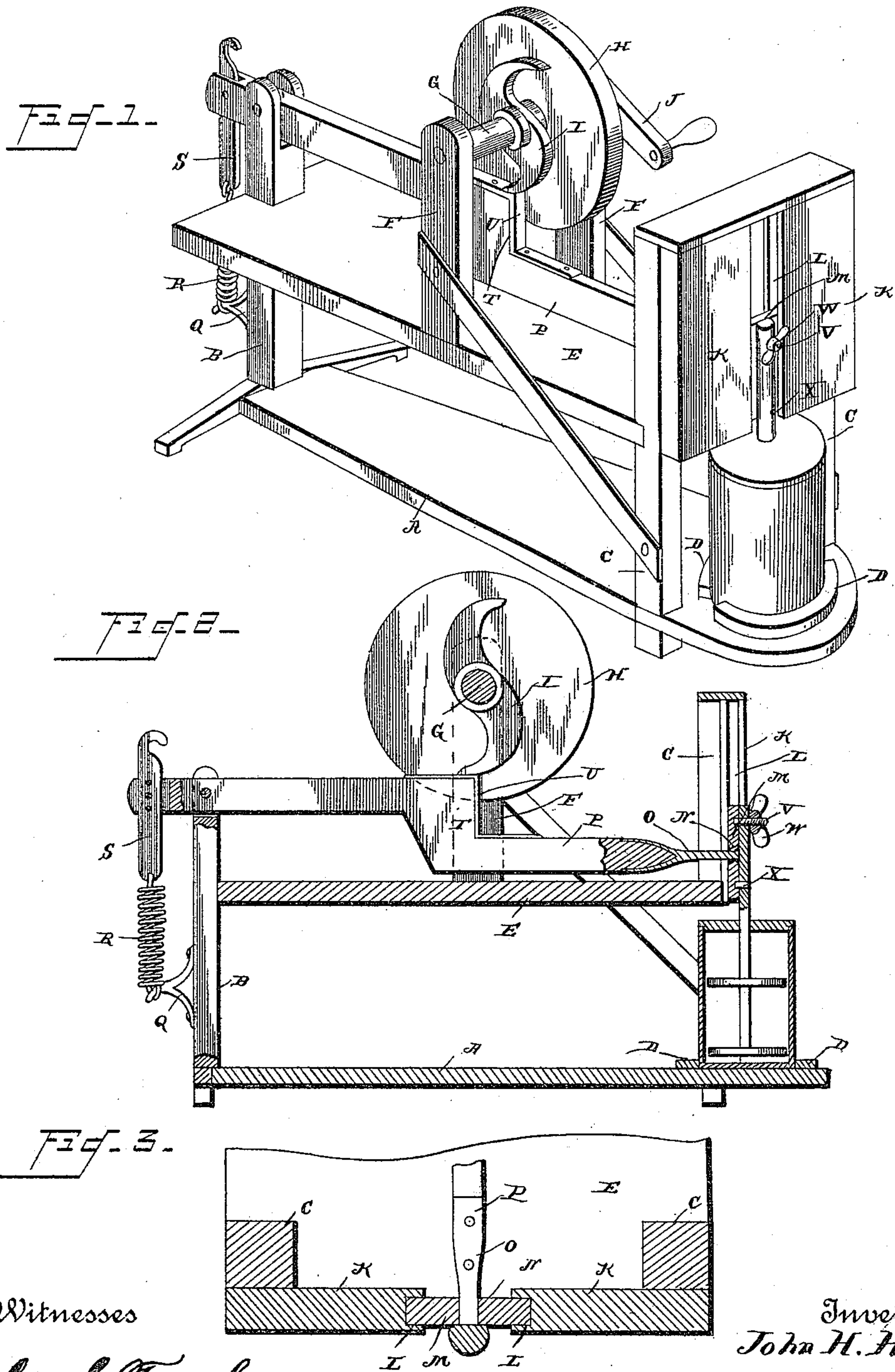


(No Model.)

J. H. HOUSE.  
MECHANISM FOR OPERATING CHURNS.

No. 440,158.

Patented Nov. 11, 1890.



## Witnesses

Geo. French  
Ch. H. Bishop.

Inventor  
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By *his* Attorneys

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# UNITED STATES PATENT OFFICE.

JOHN H. HOUSE, OF WILTON, NORTH CAROLINA.

## MECHANISM FOR OPERATING CHURNS.

SPECIFICATION forming part of Letters Patent No. 440,158, dated November 11, 1890.

Application filed October 19, 1889. Renewed October 13, 1890. Serial No. 368,005. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. HOUSE, a citizen of the United States, residing at Wilton, in the county of Granville and State of North Carolina, have invented a new and useful Mechanism for Operating Churns, of which the following is a specification.

My invention relates to improvements in mechanism for operating churns, &c.; and it consists in certain novel features, hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improved device. Fig. 2 is a longitudinal sectional view with a part in side elevation. Fig. 3 is a detail transverse section.

The frame of my improved device comprises the base A and the standards C B, at the front and rear ends of the same, respectively. On the upper side of the base, at the front end of the same, I secure the curved ribs D D, between which a churn-body may rest, and by which it is held on the base. A plate or platform E is secured to the standards B C, and on this plate, at the side edges of the same, I erect the standards or supports F, in which I journal a shaft G, on which I secure a balance-wheel H and a double cam I. The driving-shaft G is provided at one end with a crank J, by means of which it may be operated, as will be readily understood.

To the front sides of the standards C, I secure a pair of plates K, which are provided in their inner edges with the vertical grooves L, which are engaged by the edges of a vertically-sliding cross-head M. This cross-head is provided at about its center with an opening N, which is engaged by a point or pin O at the front end of a lever P, which is pivoted to the upper end of the rear standard B.

To the rear side of the standard B, near the lower end of the same, I secure a downwardly-projecting hook Q, to which I secure the lower end of a spring R, having its upper end engaged in a link S, which is adjustably secured to the rear end of the lever P. The lever is provided at about its center, on its upper side, with the shoulder T, which is arranged directly under and in contact with the double cam I, and is re-enforced by a metallic plate U, to reduce the wear.

The dasher-staff is secured to the front side of the cross-head by means of a bolt V in the cross-head passing through the upper end of the dasher-staff, and a thumb-nut W, mounted on the end of the bolt and turning up against the staff. The staff is prevented from swinging laterally by a pin X on the cross-head engaging an opening in the staff.

In practice the churn-body is placed on the platform or base of the device and the cream placed therein in the usual manner. The operating-shaft is then rotated, so that the cam acting on the lever will cause the same to vibrate and thereby reciprocate the dasher-staff, so that the dashers will thoroughly agitate the cream and thereby quickly produce the butter. It will be observed that the cam forces the lever downward, so that the spring will be extended, and consequently as soon as the cam has cleared the shoulder of the lever the spring will resume its normal position and thereby elevate the lever. The pin or point at the front end of the lever plays freely in the opening in the cross-head, so that it will not bind therein as the cross-head reciprocates. The guide-plates K cause the cross-head to move in a true vertical plane, and the dasher-staff is held securely to the cross-head, so that it will not sway and bind against the opening in the lid of the churn-body.

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

The combination of the supporting-frame, the lever mounted therein, means for vibrating the lever, the hook at the rear end of the frame, and the spring having its lower end engaging said hook and its upper end engaging a link, which is adjustably secured to the lever, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN H. HOUSE.

Witnesses:

A. H. A. WILLIAMS,  
R. W. LASSETER, Jr.