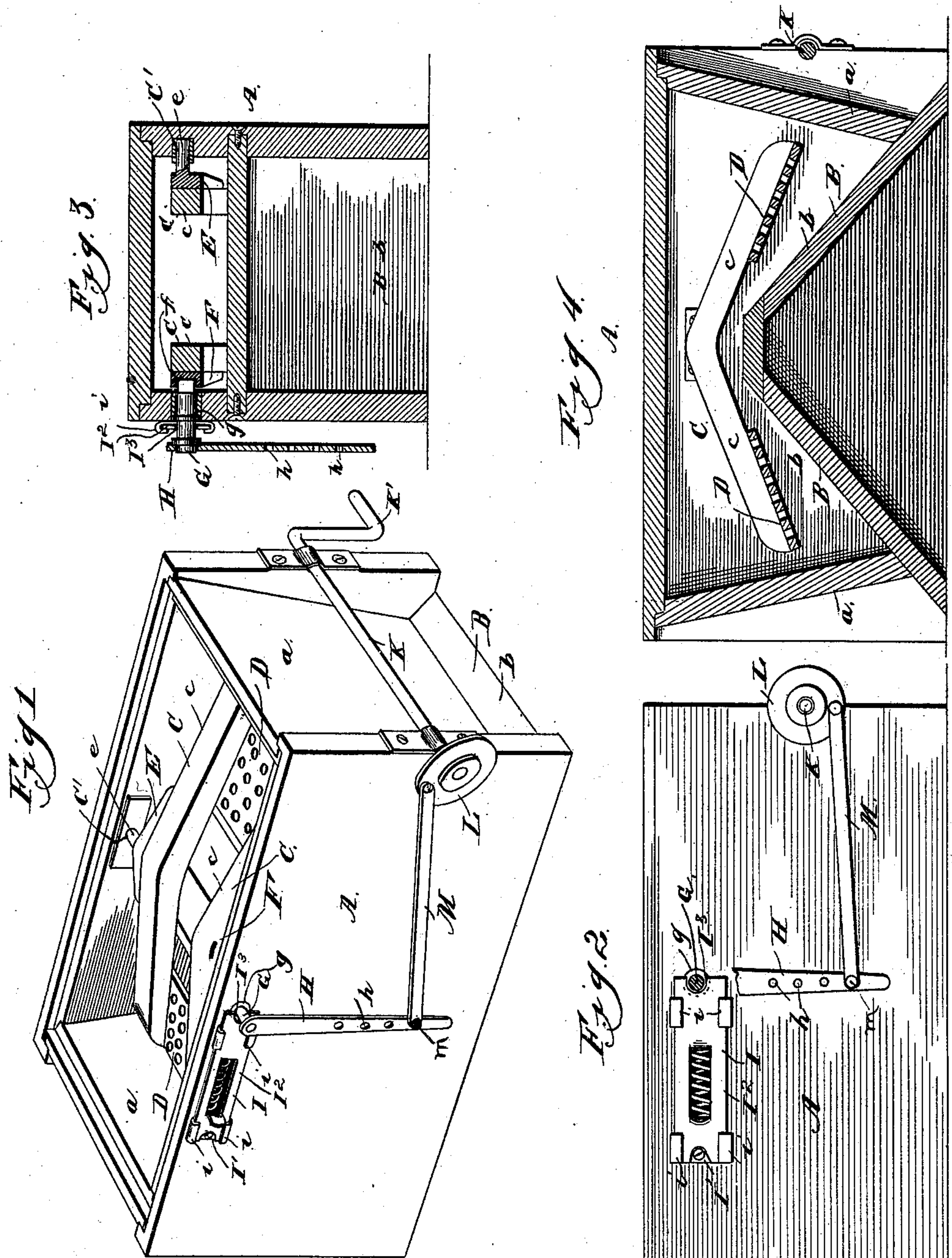


(No Model.)

A. HAESSLY.  
CHURN.

No. 362,505.

Patented May 10, 1887.



Witnesses  
*Geo. Thorpe.*

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# UNITED STATES PATENT OFFICE.

ABRAHAM HAESSLY, OF MILLPORT, OHIO.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 362,505, dated May 10, 1887.

Application filed February 16, 1887. Serial No. 227,820. (No model.)

*To all whom it may concern:*

Be it known that I, ABRAHAM HAESSLY, a citizen of the United States, residing at Millport, in the county of Columbiana and State of Ohio, have invented a new and useful Improvement in Churns, of which the following is a specification.

My invention relates to improvements in churns; and it consists in a certain novel construction and arrangement of parts for service, fully set forth hereinafter and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the churn, with the lid thereof removed. Fig. 2 is a side elevation thereof, with the lever-arm broken away to show the application of the catch. Fig. 3 is a transverse central section of the churn. Fig. 4 is a central longitudinal section thereof.

Referring to the drawings, in which similar letters denote corresponding parts in all the figures, A designates the body of the churn having the inclined ends *a* and the bottom B, formed of two inclined planes, *b b*, meeting at the upper edges in the center of the body of the churn and secured at the lower edges to the lower edges of the ends *a*.

The dasher C comprises the side bars, *c c*, which are bent at the middle points and the ends, respectively, inclined downward and provided with the perforated cross-pieces or paddles D. A plate, E, having a trunnion, *e*, is secured on the outside of one of the side bars, *c*, and said trunnion *e* bears in a recess, C', in the side of the body, near the upper edge thereof. A similar plate, F, having a squared recess, *f*, therein, is secured to the outside of the other bar *c*, and the squared end of the crank-shaft G is adapted to be received therein, the said crank-shaft passing through a round bearing in the side of the body and having the upper end of the lever-arm H, which is provided with a series of perforations or openings, *h*, rigidly secured thereto.

I is a spring-catch secured to the side of the body of the churn, and comprises the base-plate I', on which slides the spring-actuated latch I<sup>2</sup>, held in place by the flanges *i*, and having the rounded recess I<sup>3</sup> in the front end, to pass around the reduced outer end of the crank-shaft G outside of the shoulder *g* thereon.

K is a crank-shaft journaled in bearings in the end of the body, and having the crank K' on one end and the wheel L on the other, said wheel being connected by a pitman, M, to the lever-arm H by passing the bolt *m* through an opening in the end of the said pitman and one of the perforations *h* in the lever-arm.

The operation of the invention is very simple, and is as follows: The crank K', being turned, operates the pitman, which causes the lever-arm H to be reciprocated, and therefore correspondingly operates the dasher, alternately raising and lowering each of its ends. This action causes the contents of the churn to be violently agitated, throwing the same alternately from one side or end thereof to the other, and thus rapidly accomplishes the churning. To remove the butter, the dasher is taken out by withdrawing the shaft G after retracting the spring-actuated detaining-catch I<sup>2</sup>.

My invention is very simple in construction, and will be found very durable and effective in operation.

Having thus described my invention, I claim—

1. The churn having a body provided with a bottom formed of two inclined planes forming a ridge in the center, combined with the dasher comprising the side bars bent at the center and having the ends depressed and the perforated paddles on the outer ends, said dasher being pivoted within the body and adapted to be oscillated, substantially as described.

2. The combination, with the churn-body and the dasher, of the removable shaft for oscillating the dasher, and the catch for holding the dasher in place, comprising the base-plate I', having the flanges *i*, and the spring-actuated latch I<sup>2</sup>, sliding on the base-plate and having a recess in its front end to pass around the removable shaft, substantially as specified.

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

ABRAHAM HAESSLY.

Witnesses:

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