

No. 623,076.

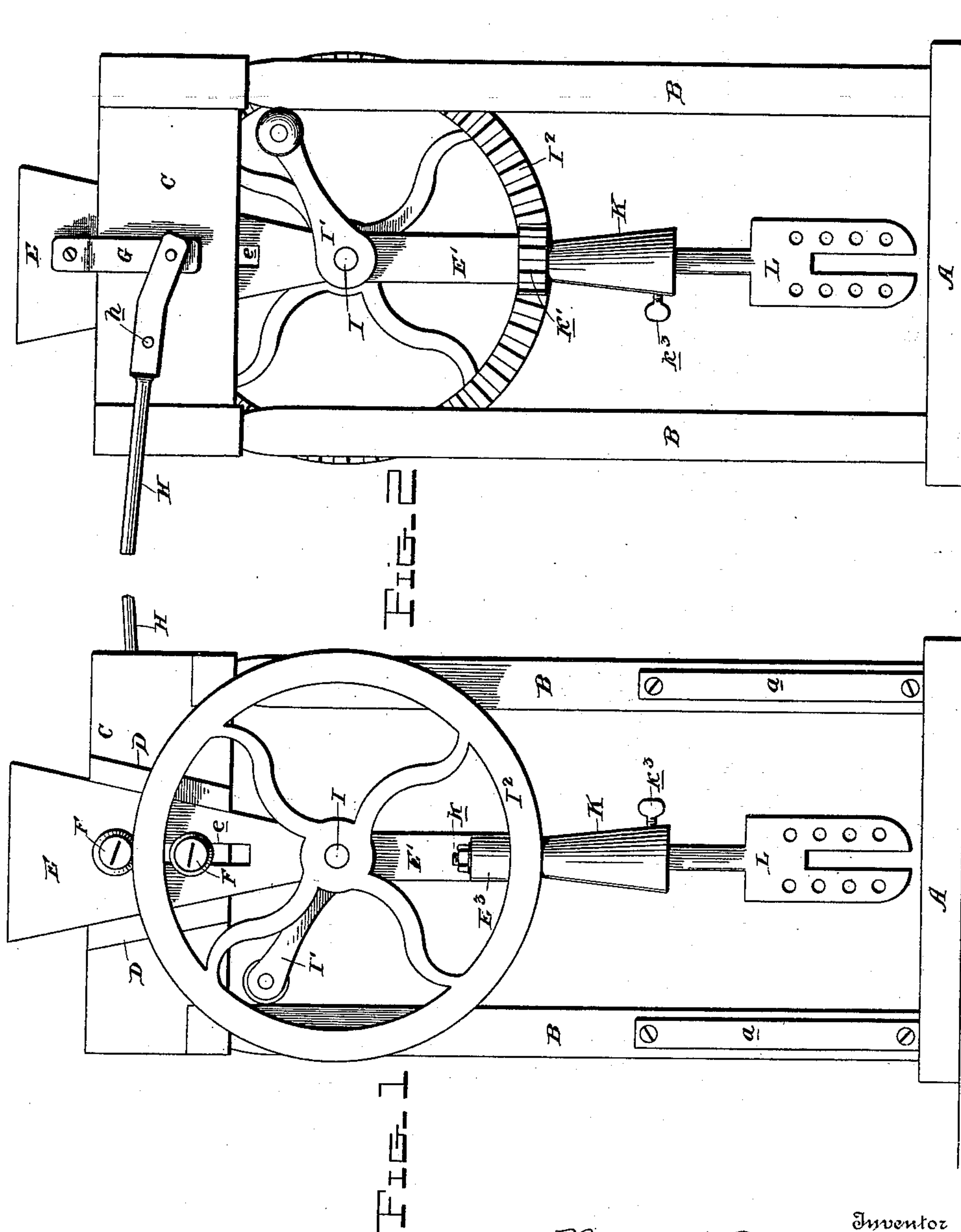
Patented Apr. 11, 1899.

N. DECKER.  
CHURN.

(Application filed Jan. 24, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
J. L. Johnson  
J. L. Johnson

Inventor  
Newman Decker,  
by  
A. B. Wilson & Co.  
Attorneys

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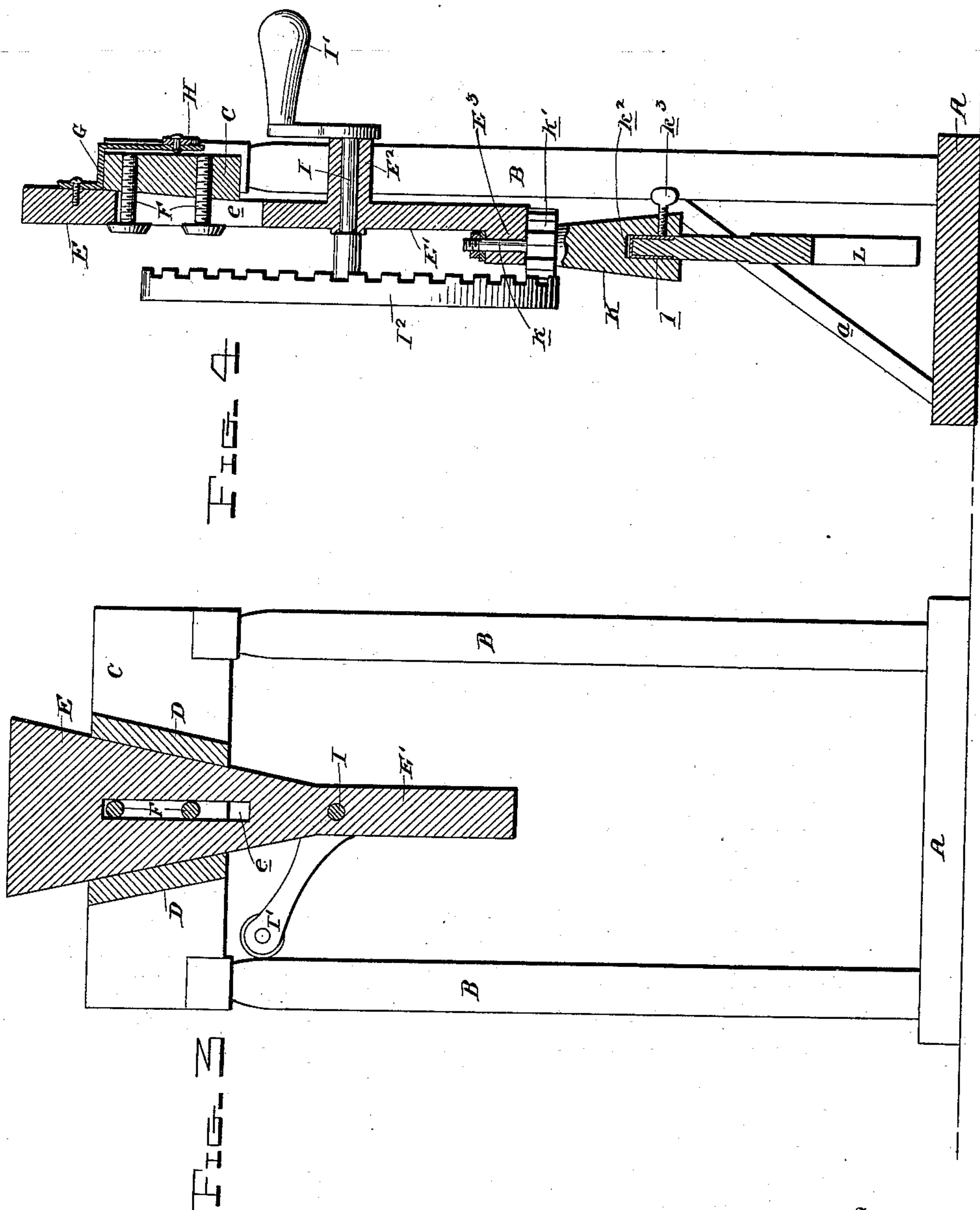
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Witnesses  
J. L. Simpson  
J. H. Wilson

Inventor  
Newman Decker,  
by  
A. B. Wilson & Co.  
Attorneys



# UNITED STATES PATENT OFFICE.

NEWMAN DECKER, OF HILLSVILLE, KENTUCKY.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 623,076, dated April 11, 1899.

Application filed January 24, 1899. Serial No. 703,293. (No model.)

*To all whom it may concern:*

Be it known that I, NEWMAN DECKER, a citizen of the United States, residing at Hillsville, in the county of Livingston and State of Kentucky, have invented certain new and useful Improvements in Churns; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in churns; and the object is to provide a simple, inexpensive, and effective device of this character for expeditiously and economically producing the butter with the least expenditure of power or manual labor.

To this end the invention consists in the construction, combination, and arrangement of the several parts of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a front elevation of a churning device embodying my invention. Fig. 2 is a similar view taken from the opposite side. Fig. 3 is a vertical longitudinal section. Fig. 4 is vertical transverse section.

A denotes the base-plate or platform upon which the churn-body (not shown) rests, and B B denote vertical parallel standards arising from and secured to the base-plate by the diagonal braces *a a* and connected at their upper ends by the cross-brace C.

D D denote diverging guide-brackets formed on one side of the brace C to receive the V-shaped cross-head E, which is formed with a vertical slot *e* to receive the guide-screws F F, which are fixed in the cross-brace.

G denotes a bent arm pivoted at its upper end to the cross-head, and its lower end is pivoted to the shorter arm of a hand-lever H, fulcrumed on a stud-bolt *h*, fixed in the cross-brace.

The cross-head E is formed with an integral depending leg E', which is provided with a horizontal bearing-sleeve E<sup>2</sup>, in which is journaled the driving-shaft I, one end of which carries the crank-handle I' and the other a crown gear-wheel I<sup>2</sup>. The lower end of the cross-head leg E' terminates in a bearing-

block E<sup>3</sup>, in which is journaled the stud-shaft *k*, formed integral with the socket K. This socket is provided with a pinion *k'*, which meshes with the gear-wheel I<sup>2</sup>, and its lower end is formed with an axial orifice *k*<sup>2</sup> and a lateral thumb-screw *k*<sup>3</sup> to removably secure the shank of the dasher L in place. The upper end of the dasher-shank is provided with a metal sleeve or cap *l* to prevent the thumb-screw from injury.

In practice I prefer to have the gear-wheel proportioned to the pinion in the ratio of about ten to one, so that one revolution of the crank-shaft will produce ten revolutions of the dasher.

In the operation of the device the free end of the hand-lever is depressed to elevate the cross-head and permit the churn-body to be placed under the dasher, which is now lowered into the churn and rotated by means of the crank-handle until the butter is formed. The dasher-operating mechanism is now elevated, as in the first instance, and the churn removed.

The accompanying drawings show my invention in the best form now known to me; but many changes in the details might be made within the skill of a good mechanic without departing from the spirit of my invention as set forth in the claim at the end of this specification.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

A churning device, comprising in combination the base-plate, standards and the cross-brace, formed with the guide-slot and diverging guide-brackets, the V-shaped cross-head mounted therein, the guide-screws connecting the cross-head and brace, the horizontal shaft journaled in the cross-head, the gear-wheel and crank fixed to said shaft, and the dasher-socket journaled in said cross-head, substantially as shown and described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

NEWMAN DECKER.

Witnesses:

P. K. COOKSEY,  
T. L. PHILLIPS.