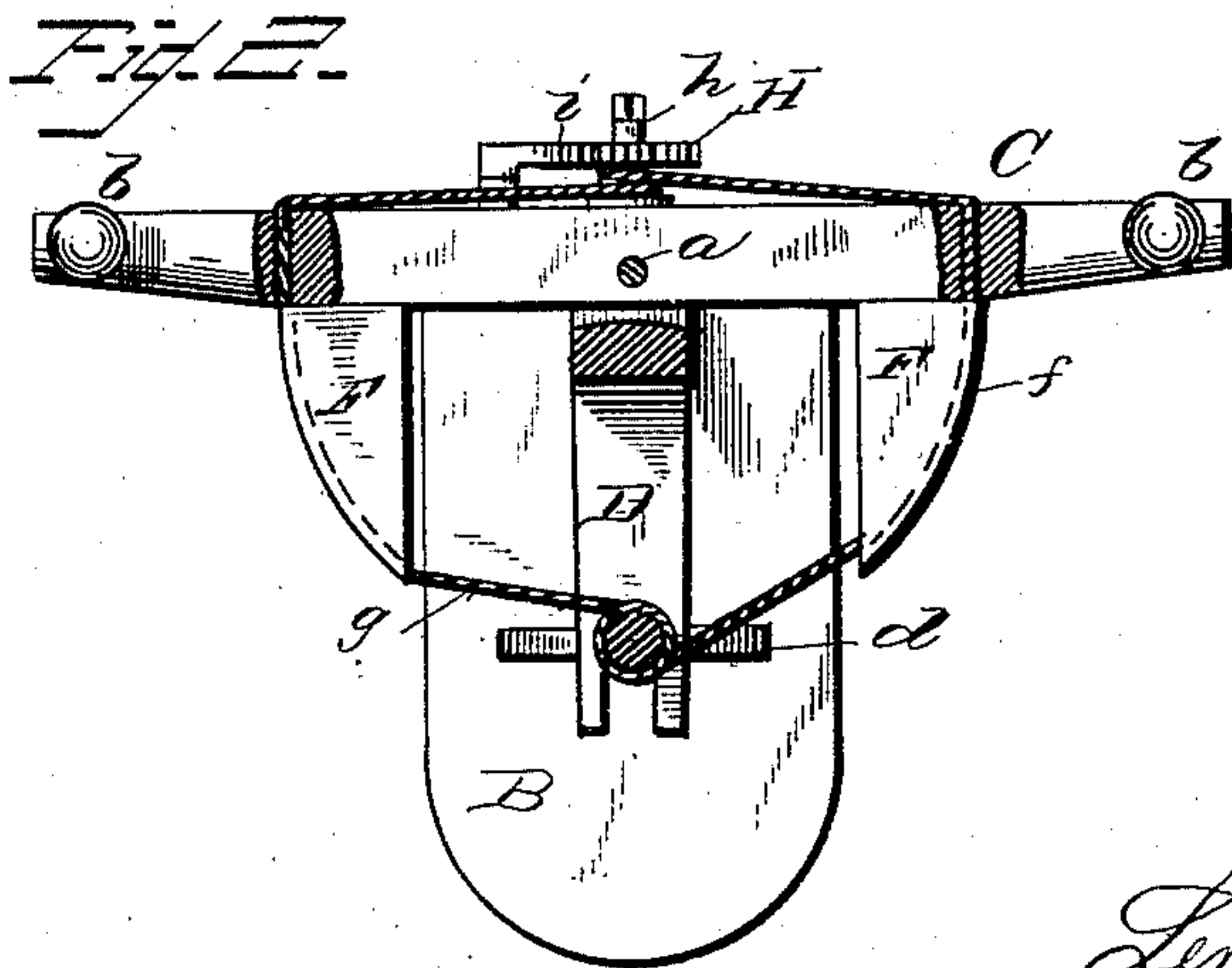
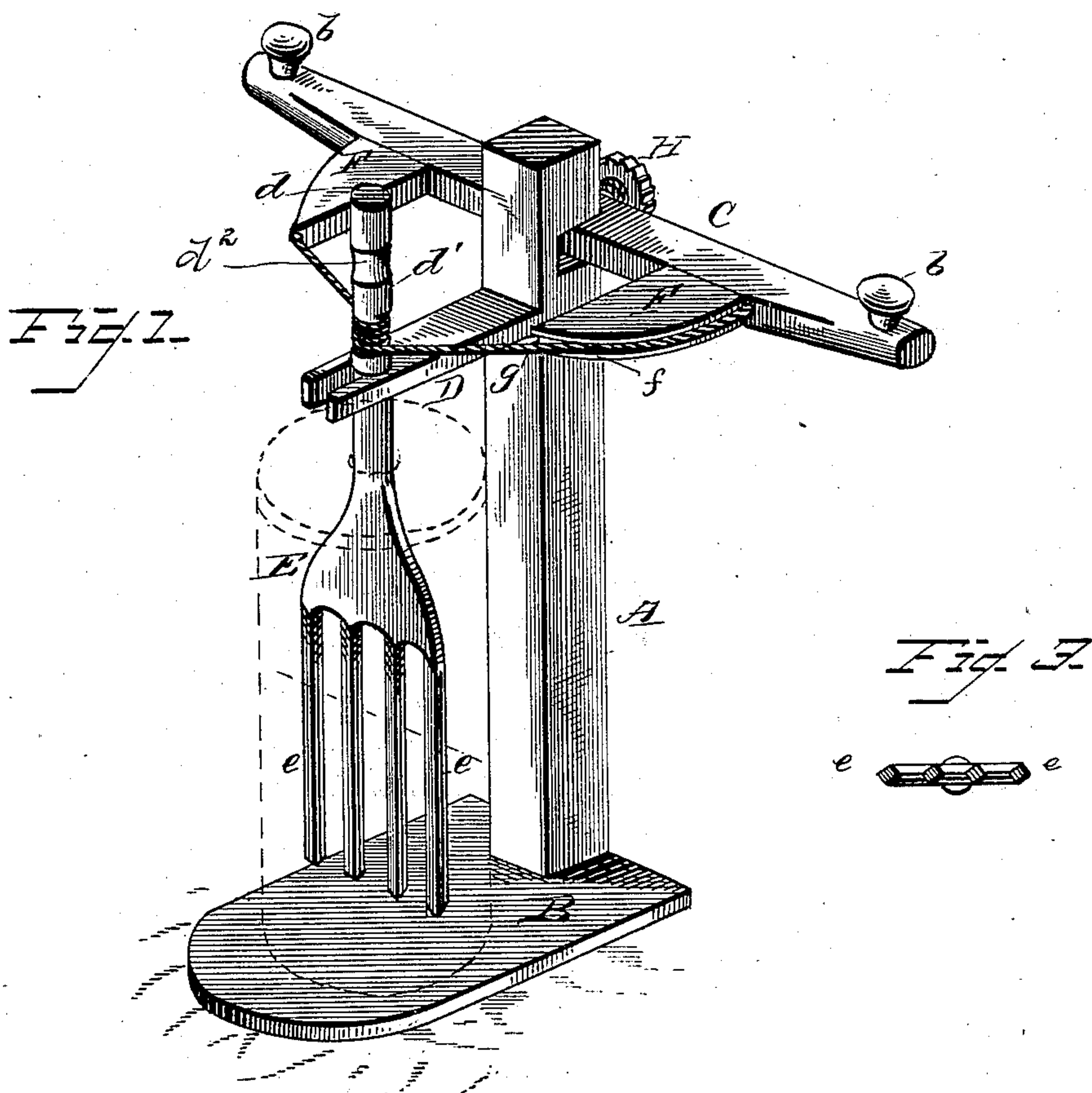


(No Model.)

L. HAWKINS.
CHURN.

No. 308,767.

Patented Dec. 2, 1884.



WITNESSES
H. L. Owsand
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UNITED STATES PATENT OFFICE.

LEROY HAWKINS, OF MITCHELLSVILLE, ILLINOIS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 308,767, dated December 2, 1884.

Application filed March 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, LEROY HAWKINS, a citizen of the United States of America, residing at Mitchellsville, in the county of Saline and State of Illinois, have invented certain new and useful Improvements in Churns; and I do hereby 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention has reference to churns; and it consists in the improvements hereinafter described and set forth.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a churn constructed in accordance with my invention. Fig. 2 is a sectional plan of Fig. 1; and Fig. 3, an inverted sectional plan of the dasher, taken on the dotted line, Fig. 1.

A represents a standard mounted on a suitable base, B. The upper rear portion of the said standard is provided with a recess, in which is located a vertical pivot-bolt, *a*, upon which horizontally swings a lever, C, the extremities of which are shaped into handles. Knobs *b* are secured to each of said handles and facilitate the manipulation of the lever C.

An arm, D, projects from the front upper portion of the standard, and is bifurcated at its extremity, to receive the shank portion *d* of a dasher, E. The said shank *d* is corrugated, so as to present a series of shoulders, *d'*, which rest upon the upper side of the bifurcated portions of the arm D, and are thereby vertically supported.

The working portion of the dasher consists of a series of vertically-depending and parallel bars, *e*, which are so arranged in position that they present one of their edges from either side of the dasher, as clearly seen in Fig. 3. A segmental block, F, is secured to the lever C, at each side of the standard A, and is provided with a groove, *f*, at its periphery. A cord or cable, *g*, is wound several times around the shank of the dasher, so as to lie in one of the depressions *d'* of the same, and each end of said cord is then passed through a perforation therefor in the lever C, so that the cord rests in the groove *f* of the

block F, near said cord, and is finally secured to a spindle, *h*, turning in bearings at the rear of the lever C. A ratchet-wheel, H, is mounted on said spindle *h*, which is provided with a key end to permit the same to be revolved to tighten or loosen the cable or cord *g*. A pawl, *i*, pivoted on a bracket located at the rear of the lever C, is adapted to lock the spindle in any position to which it may be turned.

The operation of the device will be readily understood. By oscillating the lever C upon its pivot-bolt *a* the cord *g* is caused to rapidly revolve the dasher in first one direction and then in another, thereby securing an effective churning action, while the arrangement of bars *e* enables them to act in the capacity of blades.

By the arrangement of depressions and shoulders on the shank of the dasher the same may be adjusted at the end of the arm D, so as to be supported at various heights without the aid of auxiliary securing devices.

I claim--

1. The combination, in a churn, of an arm suitably supported and bifurcated at its end, a dasher the upper portion of which is provided with a series of depressions, and rests in the bifurcated portion of said arm, and a cord or cable in contact with said upper portion and secured at each end to a pivoted lever, substantially as set forth.

2. The combination, in a churn, of an arm or its equivalent suitably supported and bifurcated at its end, a dasher the upper portion of which is provided with a series of depressions, and rests in said bifurcated portion of the arm, and a cord or cable in contact with said upper portion and connected to tightening devices located on a pivoted operating-lever, substantially as set forth.

3. The combination, in a churn, of an arm or its equivalent suitably supported and bifurcated at its end, a dasher the upper portion of which is provided with a series of depressions, and having a series of depending parallel bars arranged to present their angles at each side of the dasher, substantially as herein described.

In testimony whereof I affix my signature in presence of two witnesses.

Witnesses: LEROY HAWKINS.

J. H. BLACKMAN,

W. H. H. WHITLOCK.