

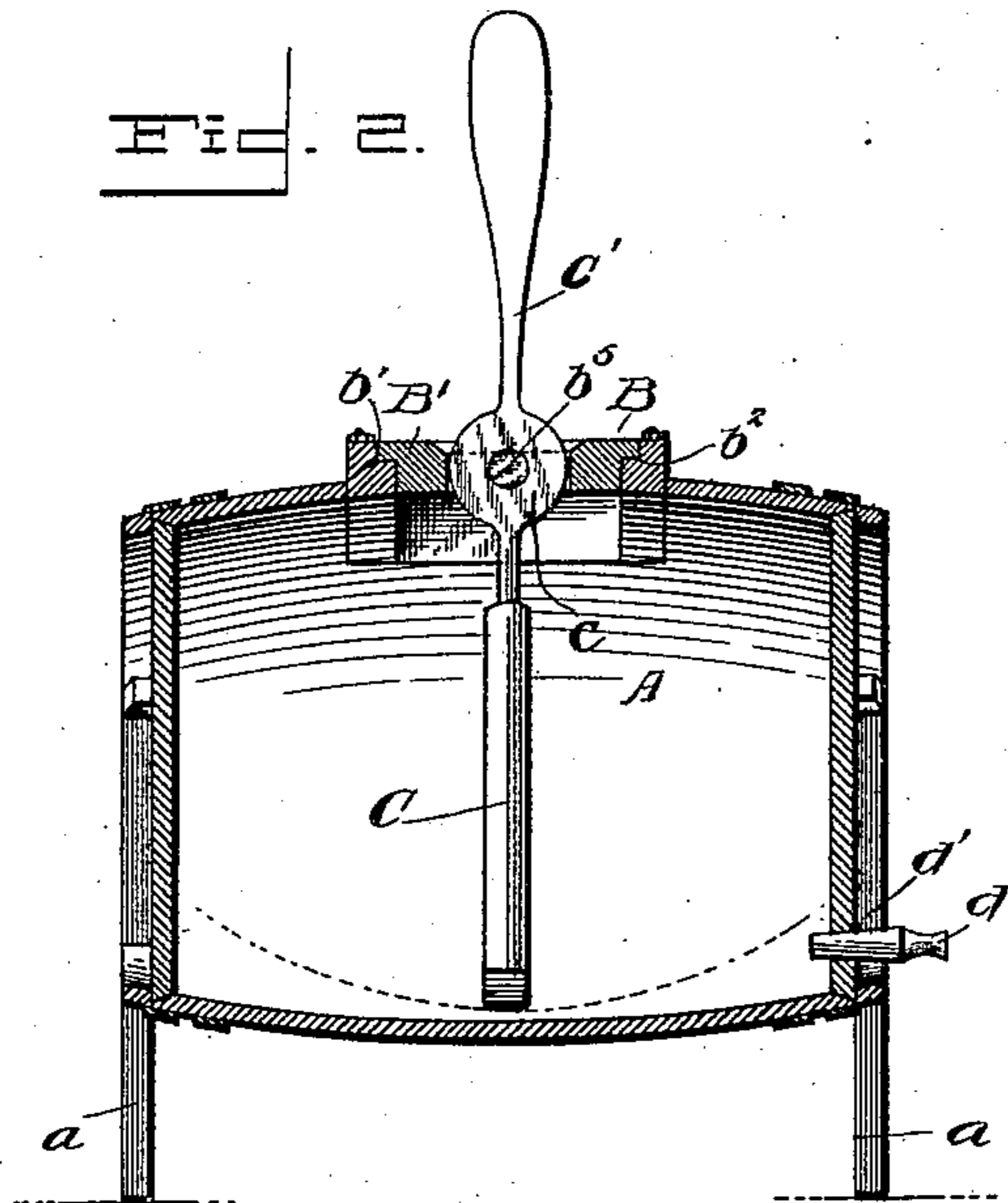
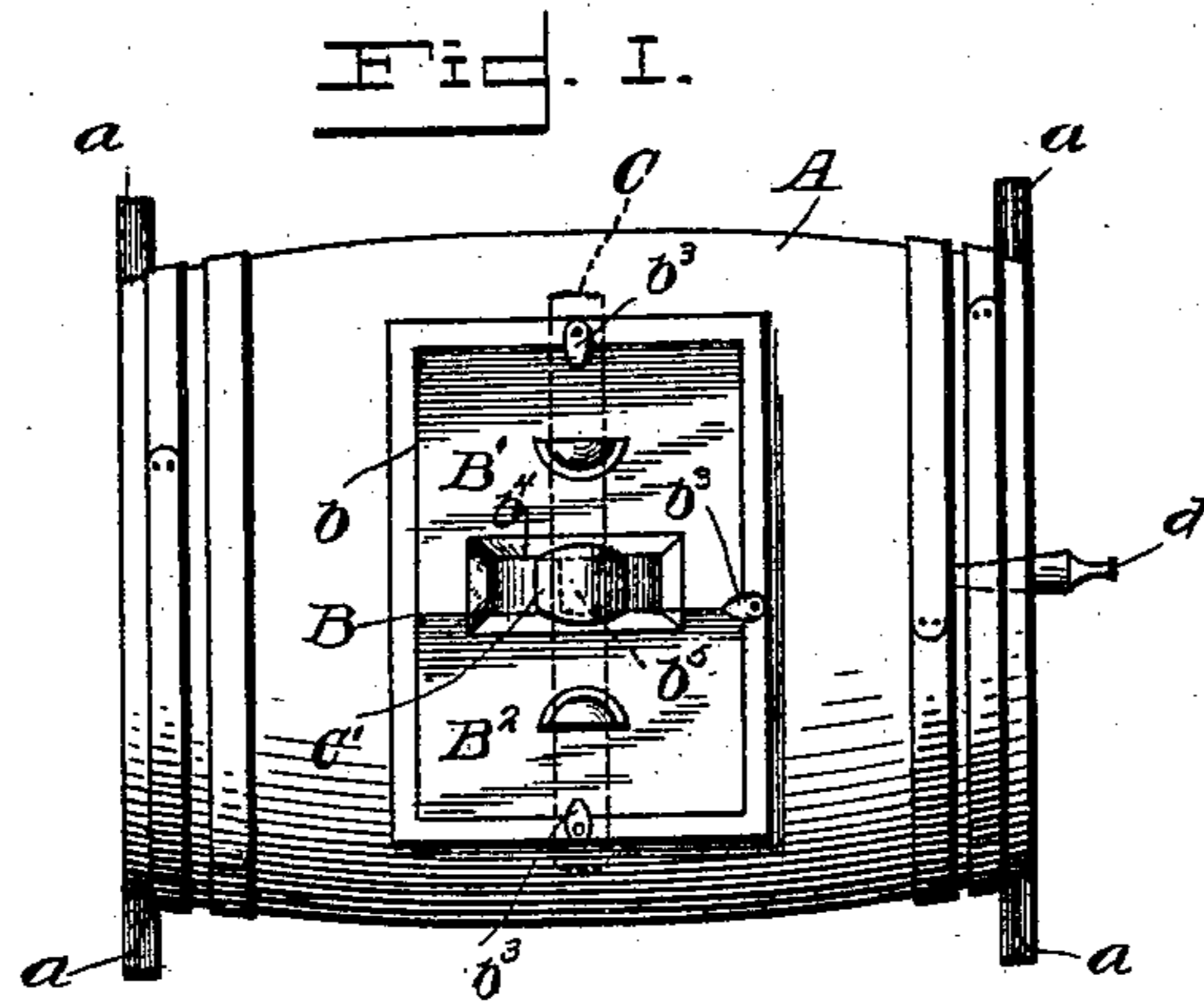
No. 631,723.

Patented Aug. 22, 1899.

I. KEY.
CHURN.

(Application filed Nov. 14, 1898.)

(No Model.)



Witnesses:
Fenton S. Belt,
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UNITED STATES PATENT OFFICE.

ISAAC KEY, OF LEACH, INDIANA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 631,723, dated August 22, 1899.

Application filed November 14, 1898. Serial No. 696,480. (No model.)

To all whom it may concern:

Be it known that I, ISAAC KEY, a citizen of the United States, residing at Leach, in the county of Grant and State of Indiana, 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in churns of that class which may be termed "vibrating," the same comprising a stationary body or receptacle and a single-handled dasher.

It has for its object, among other things, to greatly simplify the construction and arrangement of the parts and denude the same of all unnecessary appendages, also to expedite and facilitate the churning operation and to readily draw off the buttermilk.

It consists of the detailed construction, combination, and disposition of the parts, substantially as hereinafter more fully disclosed, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of my improved churn. Fig. 2 is a vertical longitudinal section thereof.

A refers to the cream-receptacle or body, of keg-like or substantially cylindrical shape. The receptacle or body A is suitably supported upon legs *a a*, secured to its ends or sides, as preferred, and has an opening *b* in its upper side, through which the cream is inserted and the butter or contents are removed, suitably boxed or walled around, as at *b'*, said boxing or walling rabbeted in its upper edge, as at *b²*, to provide for sinking the cover or lid B therein below or flush with its top edge.

The cover or lid B is made in sections B' B², each having a suitable knob or handhold for its removal and held in place by suitable fastenings or buttons *b³*, swiveled or pivoted upon the top edge of the wall or boxing *b'*. The lid or top section B' has one edge—that immediately adjoining the meeting edge of the lid or cover section B²—provided with a lateral recess or cut away, as at *b⁴*, and in

this recess is arranged a trunnion or pivot *b⁵*, with one end fixed to the same lid-section B', having said recess and extending to the opposite lid or cover section.

C is the dasher, preferably of the construction shown, which may be either foraminous or imperforated to suitably and effectively act upon the cream for its conversion into butter with facility and the minimum time—in two or three minutes. The dasher C has a stem or staff C' arranged in vertical alinement therewith, which when grasped by the hand and actuated will cause the dasher to act upon the cream and throw the butter against the sides and respective ends of the receptacle, effectively performing the churning operation. The staff or stem C' is provided a short distance above its blade with an apertured circular portion *c* to permit said stem or staff to be laterally slipped upon the pivot *b⁵* of the lid or cover, and consequently the pivoting or fulcruming of the lever thereon directly in said lid or cover itself, thus in addition to simplifying construction providing for the conjoint and simultaneous insertion in place in the receptacle of the cover and dasher and the like removal of said parts therefrom when it is desired to remove the contents of the receptacle.

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

1. The churn comprising the receptacle, having the opening therein through which the contents &c. are removed provided around its edges with a surrounding boxing or flange, the lid or cover in two parts or sections, inclosed by said boxing or flange, one lid or cover section having a lateral recess or opening, and a pivot-pin extending from one edge of said opening or recess transversely or crosswise of said opening and the other lid, or cover, section closing one side of said opening or recess and abutting or guarding the free end of said pivot-pin, and the dasher having its stem or staff provided with an apertured circular bearing, adapted to receive said pivot-pin, and having its axial line parallel with and in vertical alinement with the lateral area or width of said dasher, substantially as set forth.

2. In a churn, the combination of the receptacle or body, the lid or cover sections, one having a lateral recess or opening and provided with a lateral pivot or pin arranged in
5 said recess and its free end extending to and guarded by the meeting edge of the other lid-section, and the dasher having its staff or stem provided with an apertured circular portion adapted to laterally receive and ful-

crumed on said pivot or bearing, substantially as set forth.

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

ISAAC KEY.

Witnesses:

JOSEPH A. ROBERTS,
LEWIS HAYDEN.