J. T. IRICK.

Reciprocating Churn.

No. 200,306. Patented Feb. 12, 1878.

Fig 1

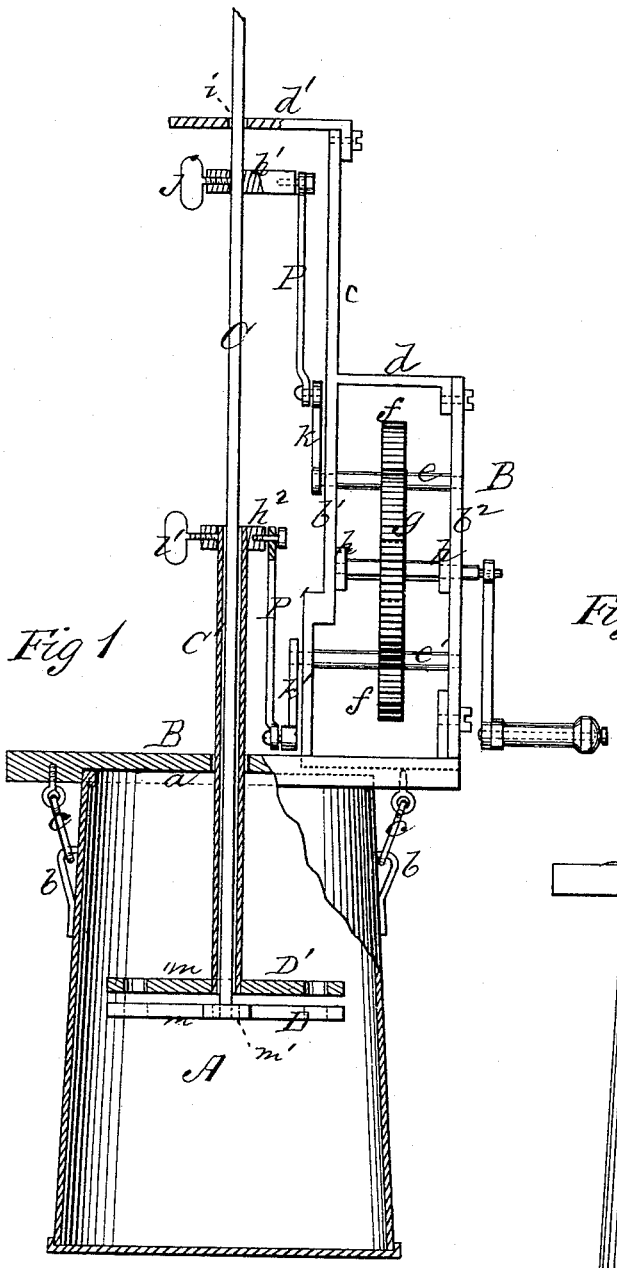
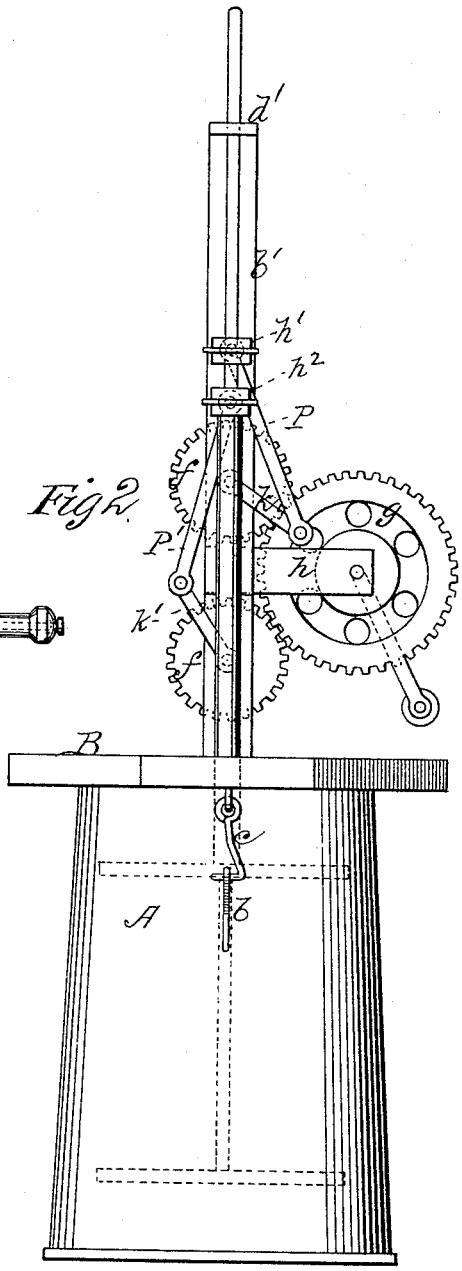


Fig 2.



WITNESSES

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JOHN T. IRICK, OF HUMANSVILLE, MISSOURI.

IMPROVEMENT IN RECIPROCATING CHURNS.

Specification forming part of Letters Patent No. **200,306,** dated February 12, 1878; application filed November 10, 1877.

To all whom it may concern:

Be it known that I, JOHN THOMAS IRICK, of Humansville, in the county of Polk and State of Missouri, have invented a new and valuable Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of the churn-tub and motor, and Fig. 2 is a side view of the same.

This invention has relation to improvements in churns.

The nature of the invention consists in the combination of parts, substantially as hereinafter shown and described.

In the annexed drawings, the letter A designates an upright vessel for the reception of cream, and B its lid or top, recessed upon its under side, at *a*, for the reception of the upper edge of vessel A. The latter has two or more ears, *b*, upon its sides, with which the hooks *c* upon the lid are engaged, thereby rigidly securing the vessel and lid together. This lid sustains at one side of its center an upright metallic frame, consisting of two spaced standards, b^1 b^2, connected together at the top of the latter by a brace, *d*, and affording bearings for two spaced shafts, *e e′*, having each a gear-wheel, *f*, of the same size secured thereto, with which a master-wheel, *g*, having its bearings in the horizontal arms *h*, projecting from the said uprights, is engaged. The upright *c* extends up above the upright b^1, and is provided with a horizontal arm, *d′*, overhanging the center of the lid, and provided with a perforation, *i*, through which the rod C of the dasher D extends. This rod is provided with a cross-head or collar, h^1, adjusted thereon by means of a thumb-screw, *j*, and connected with a crank-arm, *k*, upon the adjacent end of shaft *e* by means of a pitman, P. Rod C extends through and fits snugly in the tubular rod C′ of the upper dasher D′, the said rod playing freely through a central aperture in the lid. Rod C′ is provided at its upper end with a collar, h^2, adjusted by means of a thumb-screw, *l′*, and is connected, by means of a pitman, P′, to a crank-arm, *k′*, upon the end of shaft *e′*.

The crank-arms form an obtuse angle with each other, and operate, when the master-wheel is actuated, to cause each rod to reciprocate vertically, and to cause the dashers to approach toward and recede from each other alternately.

It will be seen that the dashers mutually sustain each other, and have a joint bearing in the arm *d′* and lid of the vessel A. The dashers are preferably of wood, and are formed of two crossed perforated bars, *m m′*, halved into each other and rigidly secured to the said rods.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the tubular dash-rod C′, and the rod C passing through the same, of the adjusting-collars h^1 h^2, the pitmen P P′, the crank-arms *k k′*, the shafts *e e′*, the gear-wheels *f*, and the master-wheel *g*, substantially as specified.

In testimony that I claim all the above invention I have hereunto subscribed my name in the presence of two witnesses.

JOHN THOMAS IRICK.

Witnesses:

M. C. MCAFEE,

J. A. HAM.