J. N. PEASE.

Churn.

No. 46,695. Patented March 7, 1865.

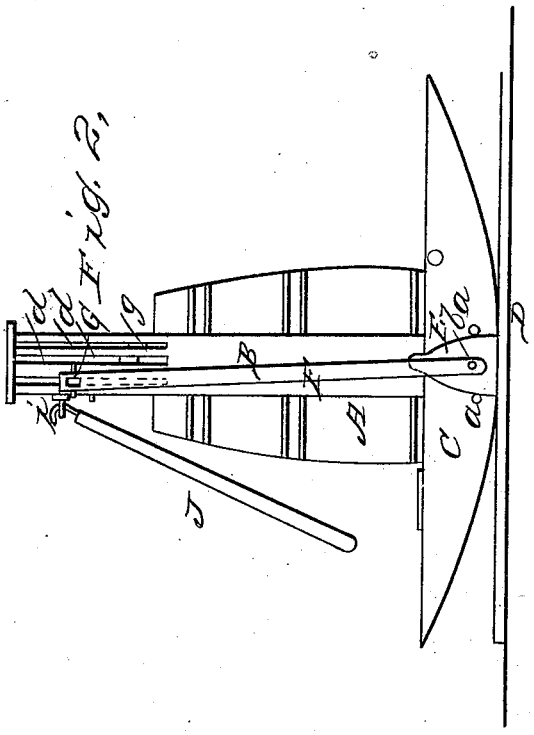

Fig. 2.

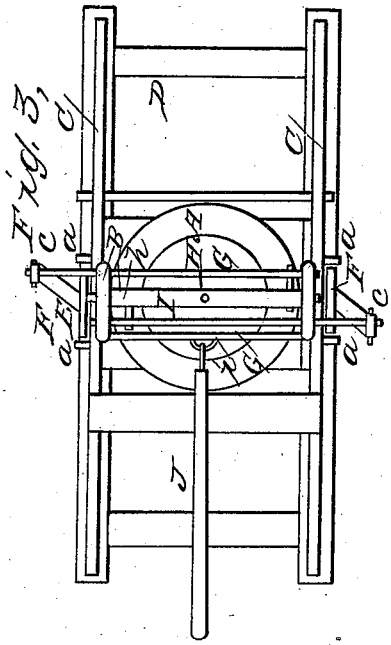

Fig. 3.

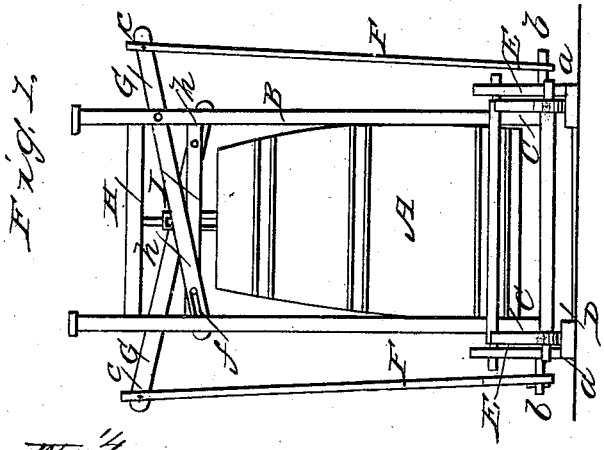

Fig. 1.

Witnesses;
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attys

UNITED STATES PATENT OFFICE.

JAMES N. PEASE, OF PANAMA, NEW YORK.

IMPROVED CHURN.

Specification forming part of Letters Patent No. **46,695**, dated March 7, 1865.

To all whom it may concern:

Be it known that I, JAMES N. PEASE, of Panama, in the county of Chautauqua and State of New York, have invented a new and Improved Churn; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of my invention; Fig. 2, a side view of the same; Fig. 3, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved churn of that class which are provided with rockers and have an oscillating motion.

The object of the invention is to obtain a churn of the class specified which will have, in connection with a rocking or oscillating movement, a reciprocating dasher operated automatically from the rocking movement of the churn, whereby butter may be produced much more expeditiously than by either a rocking movement of the churn alone or with a fixed churn and reciprocating dasher.

A represents a churn, which may be constructed in any of the known forms, and secured in a frame, B, mounted on two rockers, C C. The rockers C C are placed on a horizontal frame, D, and each rocker has two pins, *a a*, projecting horizontally from their outer surfaces. The pins *a a* of each rocker are at opposite sides of an upright, E, secured to each side of the frame D, said pins and uprights retaining the rockers on the frame D. To each upright E the lower end of a bar, F, is secured by a pivot, *b*, and the upper ends of the bars F have oblong slots made in them for the ends of arms or levers G G to pass through the bars, being retained on said arms or levers by pins *c*. The arms or levers G G pass through vertical slots *d d*, made in the upper parts of the sides of the frame D, and said arms or levers work on fulcrum-pins *e*, and have oblong slots H made in them at their ends opposite to the ends which pass through the bars F.

H represents the dasher-rod of the churn, the upper end of which is secured centrally in a bar, I. The ends of this bar I work in vertical slots *g*, made in the upper parts of the side pieces of the frame B, and said bar has pins *h* projecting from it, which pass through oblong slots *f* in the arms or levers G G.

J is a rod, which is connected by a joint to a cross-piece, *i*, at the upper part of the frame B. The frame B and churn A are oscillated through the medium of this rod, and as the churn is thus rocked or oscillated a reciprocating movement is imparted to the dasher through the medium of the bars F, arms or levers G, and bar I, the latter result being due to the varying position of the points of rest of the rockers C C on the frame D relatively with the pivots *b* of the bars F.

Thus, by this simple arrangement I obtain a very efficient churn—one which may be operated with but a moderate expenditure of power.

The rocking or oscillating movement of the churn prevents the cream adhering to its sides, and is a great auxiliary to the reciprocating dasher in producing butter.

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

The churn A, placed in a frame, B, mounted on rockers C C, in combination with the bars F F, arms or levers G G, and bar I, attached to dasher-rod H, all arranged and applied to operate in the manner substantially as and for the purpose herein set forth.

JAMES N. PEASE.

Witnesses:

WM. H. H. BARBOUR,

I. H. PRAY.