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No. 36,787.

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J. LEES. •

Churn.

Patented Oct. 28, 1862.

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N. PETERS. Photo-Lithographer, Washington, D. C.

Træntor: Ahn Dees

UNITED STATES PATENT OFFICE.

JOHN LEES, OF RACINE, WISCONSIN.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 36,787, dated October 28, 1862.

To all whom it may concern:

Be it known that I, JOHN LEES, of the city and county of Racine, in the State of Wisconsin, have invented a new and useful Improvement in Churns; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference thereon marked.

In constructing my churn I use a rectangular box, No. 4, of suitable size, and having its bottom curved to correspond to the swing of the dashers.

a is a support placed on the cover of the

and unflexes the joint formed at e by the connecting-rods, which in turn flex and unflex the similar joint formed at c by the dashers, thus making the dashers approach and recede from each other with any desired degree of rapidity. Each dasher has a swing from a point nearly vertically beneath the point c to the extreme end of the box. The perforated dasher-blades approach each other without quite touching, and then recede to their respective ends of the box and then reapproach at the next revolution of the crank. By this double change of direction and the squeezing (as it were) of the cream between the dash-

churn-box and at the center lengthwise, and serves as the bearing for the dashers, which are pivoted at c.

b b are the support or bearings of the driving-wheel, (marked No. 1,) which has its axis at d.

No. 3 No. 3 are connecting-rods made of thin slips of wood or metal, and pivoted at eto the pinion or crank. The other ends of these connecting rods are pivoted, one at f, and the other at f', to the dashers. (Marked No. 2.) g are perforated dashers—blades of a length corresponding to the width of the churn box. In the operation of my invention, the churn being in the position as indicated in the drawings, it is filled with cream and the lid is secured. Motion is then communicated to the crank, which as it revolves alternately flexes

er-blades, I am enabled to agitate the cream in the most thoroughly effective manner.

The extreme simplicity of construction and effectiveness of my invention, are such as to greatly enhance its usefulness and recommend it to the use of butter-makers.

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

The construction and arrangement of the dashers No. 2 No. 2, connecting - rods No. 3 No. 3, attached to driving-wheel No. 1, the whole constructed and operating substantially as hereinbefore set forth. JOHN LEES.

Witnesses: E. M. LEES, D. MCDONALD.