H. Decker,

Churn.

No. 62,320. Patented Feb. 26. 1867.

Fig. 2.

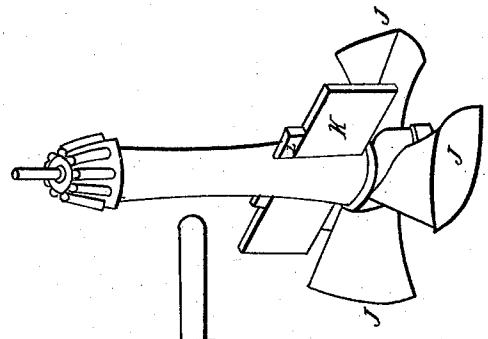
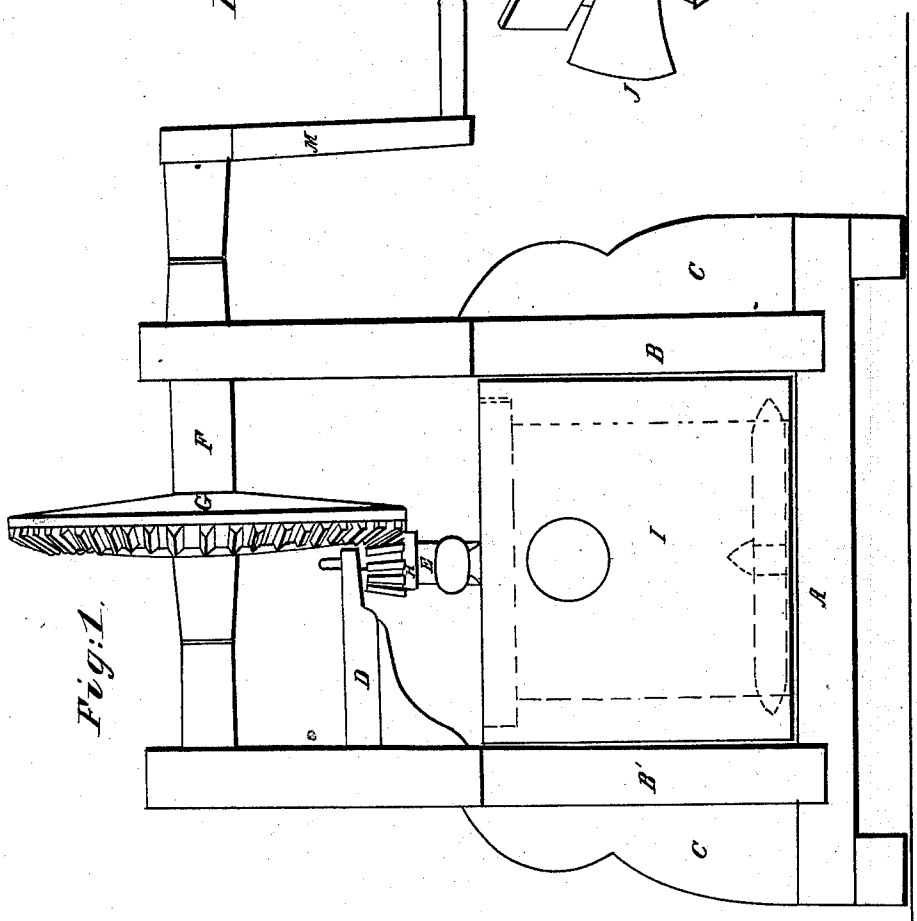


Fig. 1.



Witnesses:
J. G. Clark
A. L. Peck.

Inventor:
Henry Decker
by his Atty.
H. P. K. Peck

United States Patent Office.

HENRY DECKER, OF LEBANON, OHIO.

Letters Patent No. 62,320, *dated February* 26, 1867.

IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY DECKER, of Lebanon, in Warren county, in the State of Ohio, 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 of reference marked thereon.

Figure I represents a side elevation of my churn.

Figure II represents the revolving dash and gatherer detached.

The letter A indicates the platform which supports the side pieces B B′. These side pieces are braced by the pieces C C, which also rest upon the platform A. A bracket, D, is firmly fastened to the side piece B′, and extends to the centre of the framework of the structure, and is provided with a slot and metal stop to receive the upper journal of the dash shaft E. The top ends of the side pieces are provided with suitable bearings for the shaft F of the main driving-wheel G, which is provided with bevelled cog gearing, which works into the bevelled pinion H on the upper end of the dash-shaft E. The receptacle for the cream is a square box indicated by the letter I, and it occupies the space on the platform between the two side pieces B B′. The cover of box I consists of two pieces, which set in the rabbet at the top edge of the box. The dash represented in Fig. II consists of four vanes, J, each of them resembling a flattened (and slightly twisted or spiral) frustum of a cone. The base or outer ends of these vanes are of oval form. The vanes are attached to a hub surrounding the dash-shaft, with their smallest ends adjoining the hub, and standing obliquely to a horizontal line, as represented in the drawings. The dash-shaft E is slotted through its centre, just above the hub of the dash, and through this slot a flat board is inserted, as seen at K, and keyed by the key L so as to be readily removed or inserted. This double vane or board K is designed to be inserted and used for gathering the butter after the churning is completed. The dash-shaft E is stepped at the bottom of the cream-box, and the journal at its top runs in the slot formed in the bracket D, as has herein been described. The box I may be readily removed from the platform A by first removing its covers and raising the shaft F with the main driving-wheel G, which will admit of the removal of the dash with its shaft from the box. The box may be removed from the platform to fill it with cream, or by removing the shaft E, with the driving-wheel G, the cream may be put into the box without removing it. The crank M, on the projecting end of shaft E, serves to revolve wheel G, which meshes into pinion H and causes the dash with its shaft to revolve and agitate the cream.

The operation of churning is effected in the shortest period, and the gatherer K is then inserted in its slot in the dash-shaft, which, by slowly revolving the shaft, will cause the butter to be gathered in a mass.

I have found my churn to perform the work of churning a large quantity of butter in the space of four and five minutes.

Having fully described my improvements in churns, what I claim therein, and desire to secure by Letters Patent, is—

The dash, consisting of the vanes J, made in a tapering and slightly twisted or spiral form, and attached to a central hub, in combination with the gathering-board K, located immediately over the dasher, and cream-box I, when the several parts are constructed and arranged to operate in the manner and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 24th day of September, 1866.

HENRY DECKER.

Witnesses:

NELSON GATES,

H. P. K. PECK.