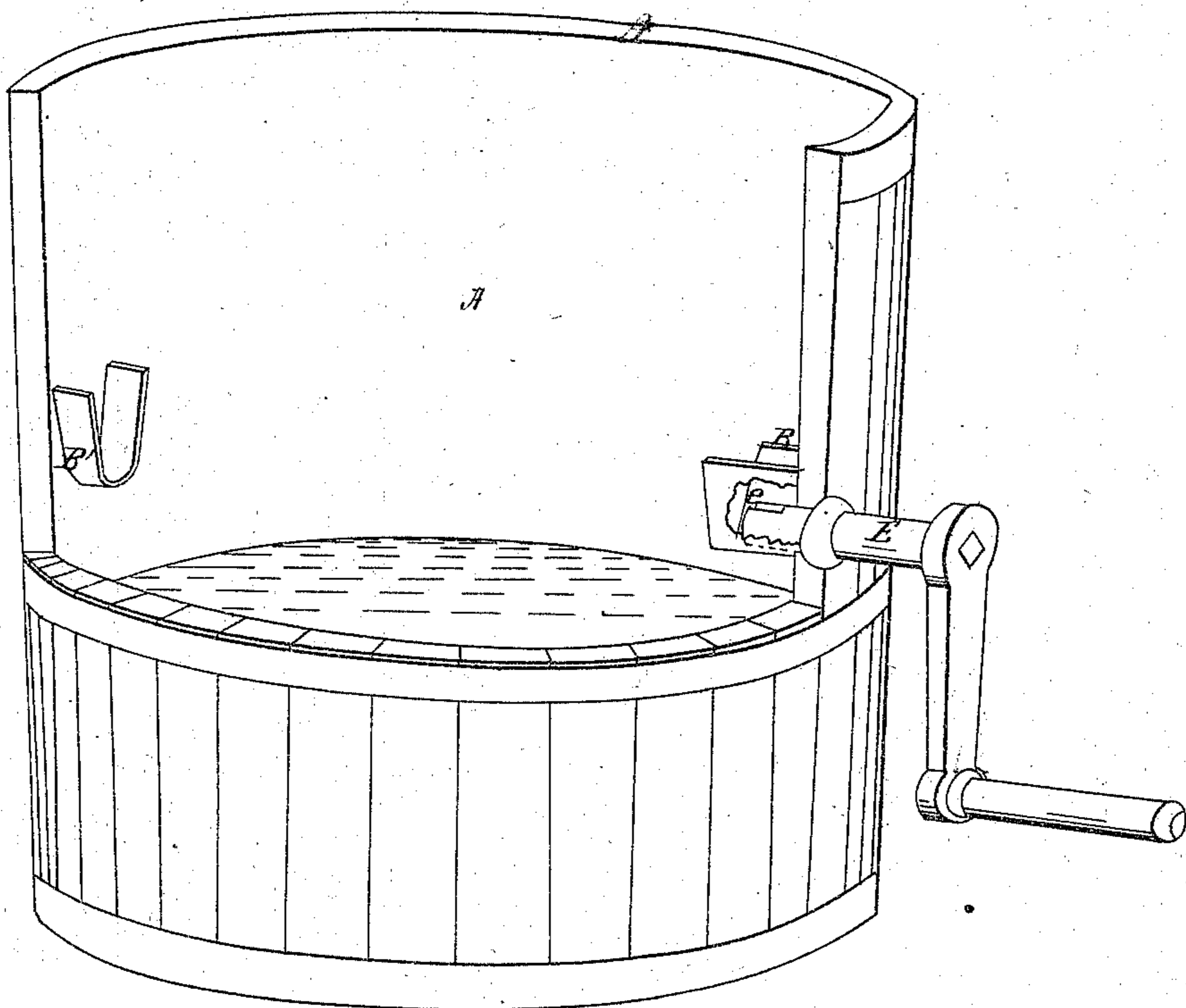
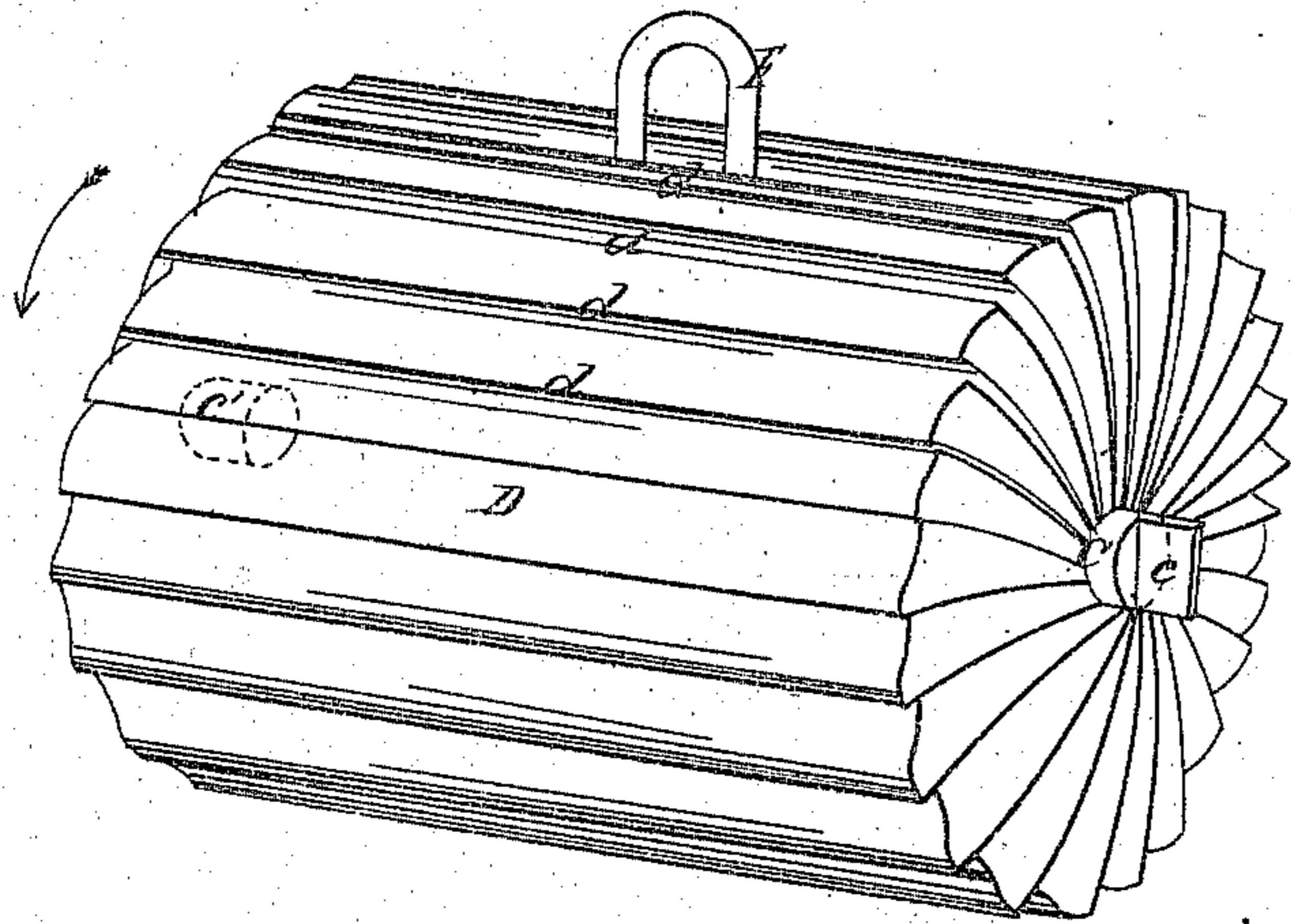


J. Thompson.

Churn.

Nº 36,811.

Patented Oct. 28, 1862.



Witnesses;
J. Gallagher
J. O. Vert

Inventor;
James Thompson
for himself and ally

UNITED STATES PATENT OFFICE.

JAMES THOMPSON. OF VEVAY, IND., ASSIGNOR TO JULIA A. THOMPSON.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 36,811, dated October 28, 1862.

To all whom it may concern:

Be it known that I, JAMES THOMPSON, of Vevay, Switzerland county, Indiana, have invented a new and useful Improvement in Churns; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawing, making part of this specification.

A is a tub shown partly in section.

B B' are two bearings for the journals C C' of a dash, D. The bearings B B' consist each of a crotch fastened to the concavity of the tub and flaring upward to facilitate the insertion of the dash. A drive-shaft, E, passing through the side of the tub, enters the lower part of the crotch B. The inner end of the drive-shaft E has a notch or slit, *e*, which, receiving the tongue *c* projecting from journal C, enables the rotation of the dash.

The dash D is a solid cylinder of wood, armed on its periphery with longitudinal ridges whose sides *d* in one direction are in the plane of the axis, or nearly so. Projecting from the periphery of the dash, in the plane of the tongue *c*, is a handle, F, which enables the withdrawal and insertion of the dash.

The support and centering of the dash depend wholly on the bearings B B', and its rotation wholly on the shaft E.

Operation: The shaft E, being with its slit *e* vertical, the dash D is lifted by means of the handle F, and is dropped into the crotches

B B', and at the same time, so as for the tongues *c* to engage in the notch *e* of shaft E, and the milk being introduced the dash is rotated in direction of arrow. The rotation of the dash acts to violently agitate the milk, both by the direct blow of the radial faces *d* and by causing the liquid to strike the bottom and the sides of the tub, and also by a portion of the liquor being carried around with the dash and precipitated in the form of spray into that below. The churning having been effected, the butter is gathered by a slow reverse rotation of the dash. The dash being now rotated to the proper position is easily withdrawn by means of the handle F.

The plain and simple form and ready detachability of the tub and dash facilitate the separation of butter and cleansing of the parts.

I claim herein as new and of my invention—

The arrangement of tub A, having the flaring crotches B B', in combination with the rotary dash D, having in one plane a handle, F, and the tongue *c*, which tongue is adapted to couple with the notched shaft E, the whole being constructed and operating in the manner set forth.

In testimony of which invention I hereunto set my hand.

JAMES THOMPSON.

Witnesses:

GEO. H. KNIGHT,
RICHARD NELSON.