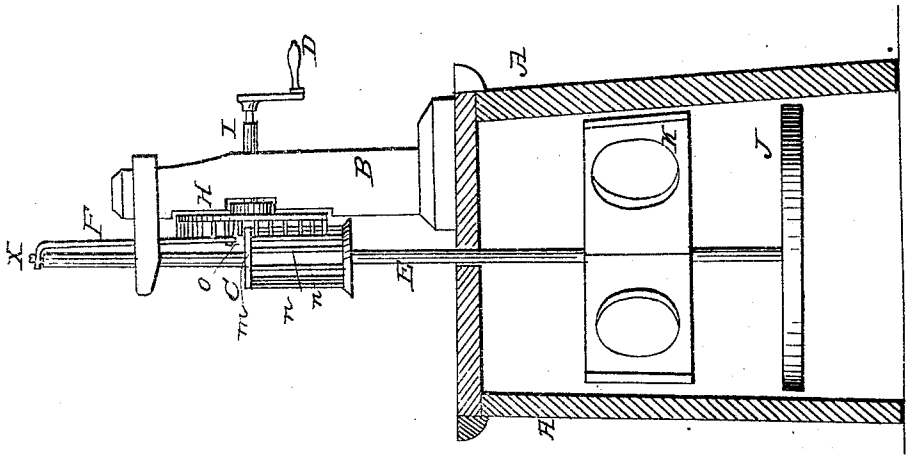
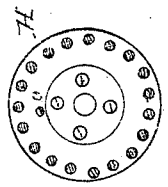
E. L. DORSEY.

Churn.

No. 23,556. Patented April 12, 1859.







WITNESSES
James F. Wiley
C D Smith

INVENTOR
Edward L. Dorsey

...LRG, Photo Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

EDWARD L. DORSEY, OF GREENWOOD, INDIANA.

CHURN.

Specification of Letters Patent No. 23,556, dated April 12, 1859.

To all whom it may concern:

Be it known that I, EDWARD L. DORSEY, of Greenwood, in the county of Johnson and State of Indiana, have invented certain new and useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon.

The nature of my invention consists in the arrangement of those parts which will be hereinafter described by means of which two distinct motions are given to the dashers.

In the figures A, represents the body of the churn,—upon the top of the body is erected an upright B,—a shaft I, passes through this upright at right angles as is shown,—to one end of this shaft is a handle and to the other is attached a cog wheel H.

E, represents the staff, to the bottom of which is secured a common round dasher, J,—a little above this said staff is provided with a whipping dasher K, or a dasher with arms. At a suitable distance from the top of the staff is secured a trundle wheel, C, said wheel consisting of two annular heads, M, M, which are a proper distance apart and are connected together by a series of rounds or spokes, which enter the heads near their peripheries.

F is a pitman one end of which is bent, so as to connect with the top of the staff, by a pivot or screw,—the other end of said pitman connects with a pin set at a convenient distance, from the center, and on the face of wheel H. The pin *o* revolves eccentrically of course to the shaft I, so that when said shaft causes wheel H, to revolve the pin *o*, and pitman F, communicate an up and down motion to the dashers,—while the teeth of wheel H work between the rounds *n*, *n*, *n*, of trundle wheel C, and give a circular motion to the said dashers. Thus the staff and dashers have two distinct motions—a vertical reciprocating and a rotary motion. It is very evident that by this means a very violent agitation may be communicated to the milk or cream. This arrangement of devices will be more advantageously used in a square box churn,—though it may be used in a cylindrical body—as the vertical reciprocating motion of the lower dasher has a great tendency to stop the rotary motion of the cream which is given by the upper dasher and subject it to a great degree of agitation.

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

The employment of the trundle wheel C, staff E, pitman F, and cog wheel H, substantially in the manner herein shown for the purpose of giving at the same time, a vertical and a circular motion to the dashers, for churning butter as is fully set forth.

EDWARD L. DORSEY.

Witnesses:

JOHN K. ALEXANDER,

JAMES F. WILEY.