

N. H. Lindley.

Churn.

No. 2,758.

Patented Aug. 25, 1842.

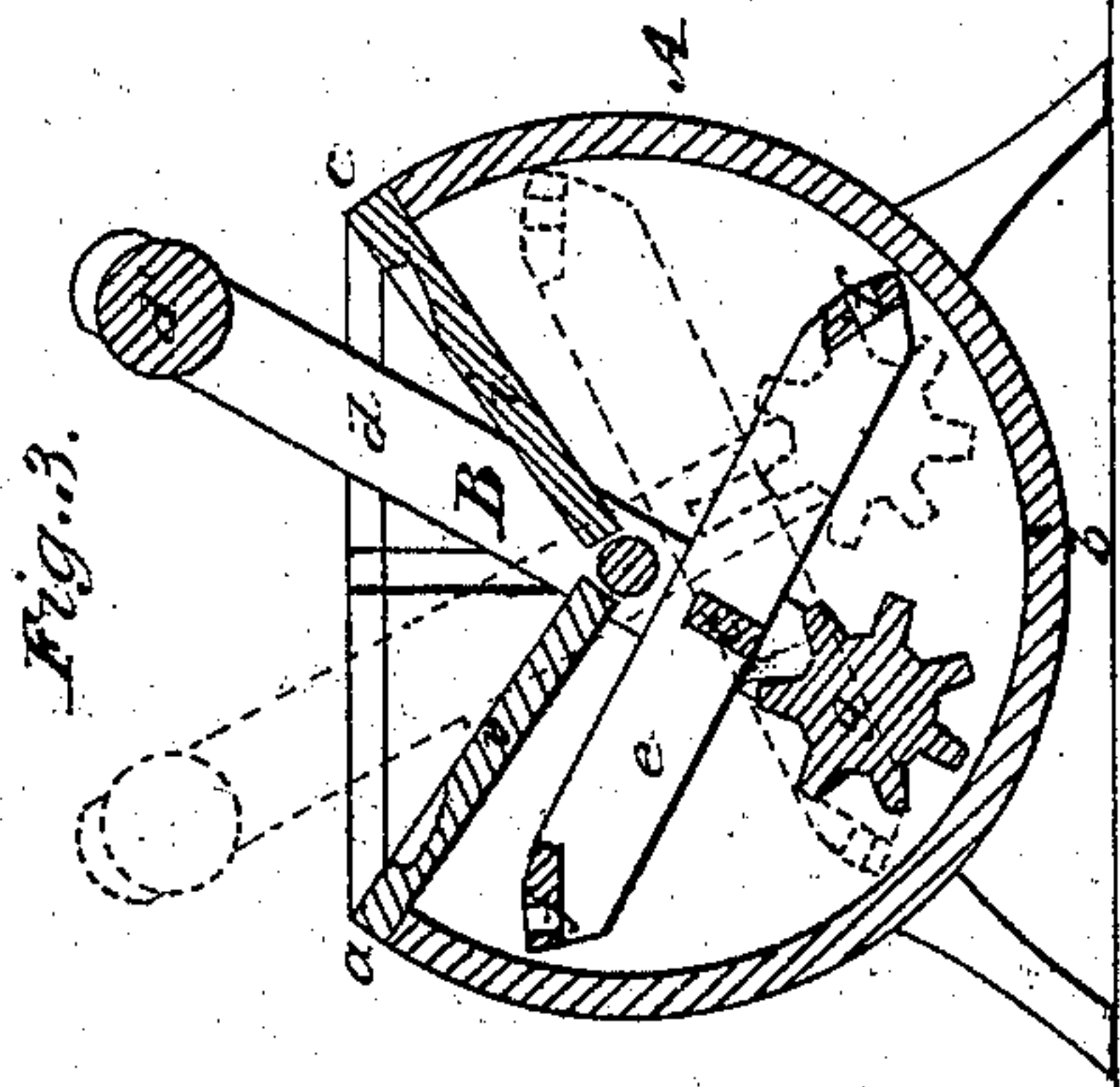


Fig. 4.

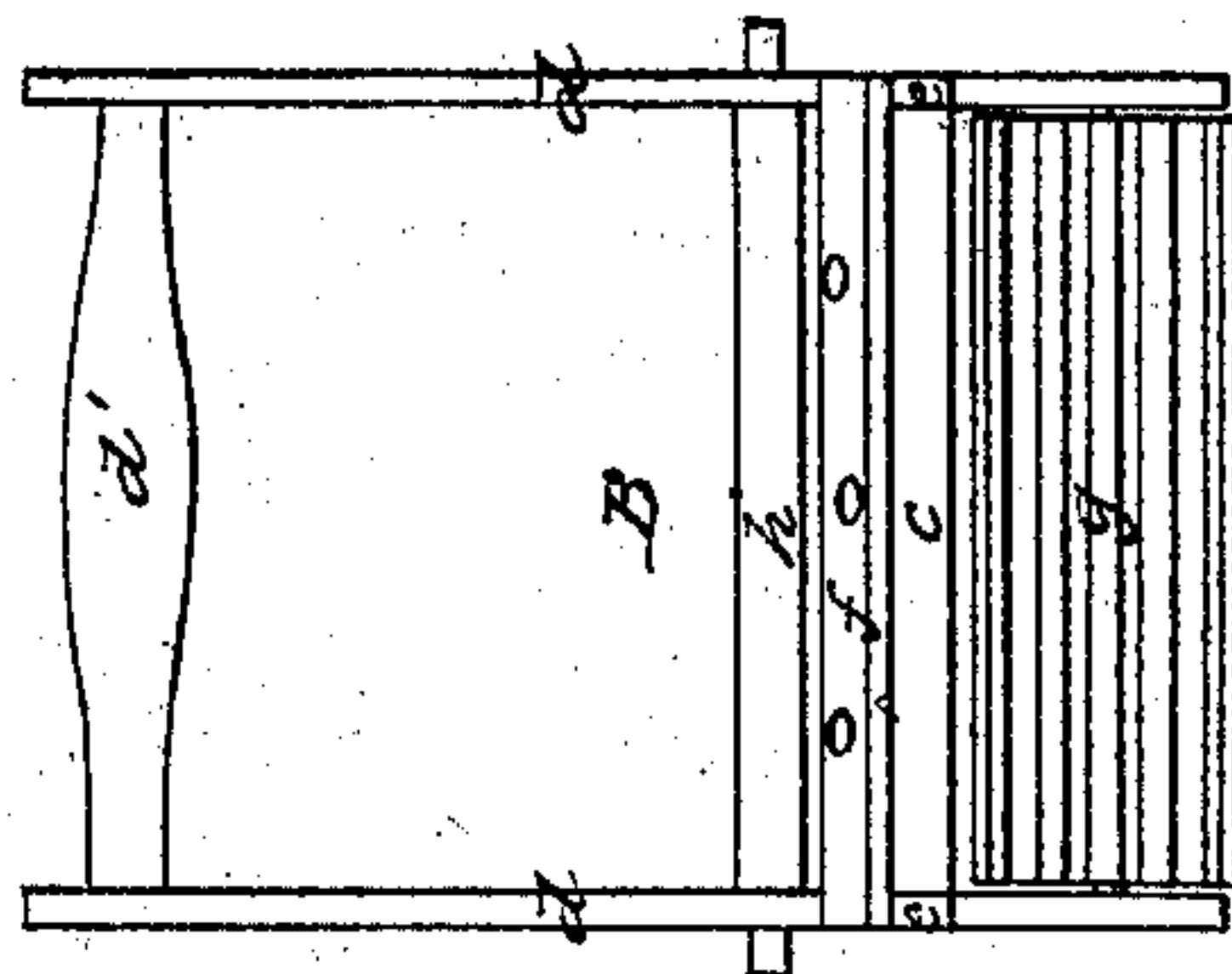


Fig. 1.

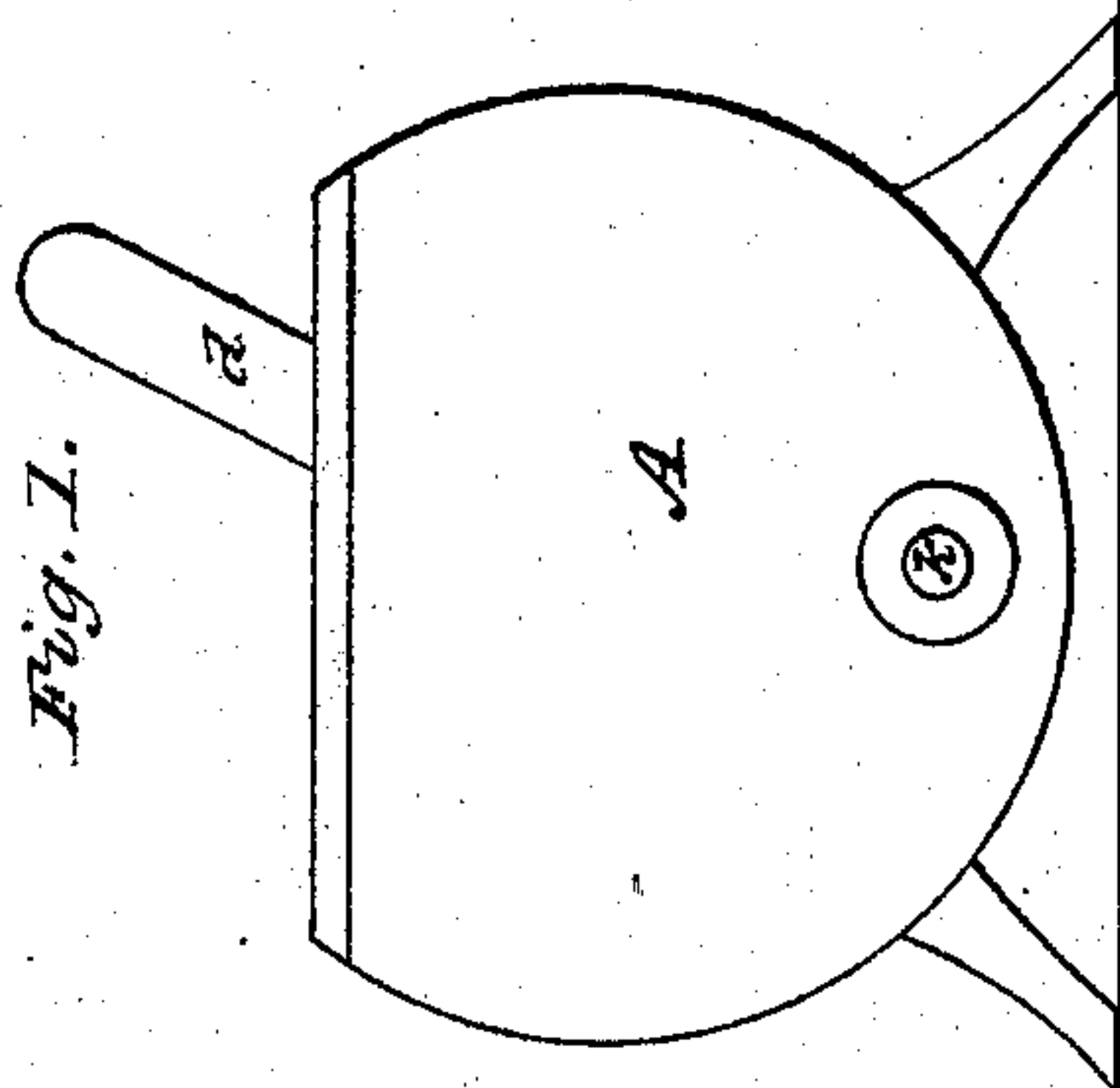
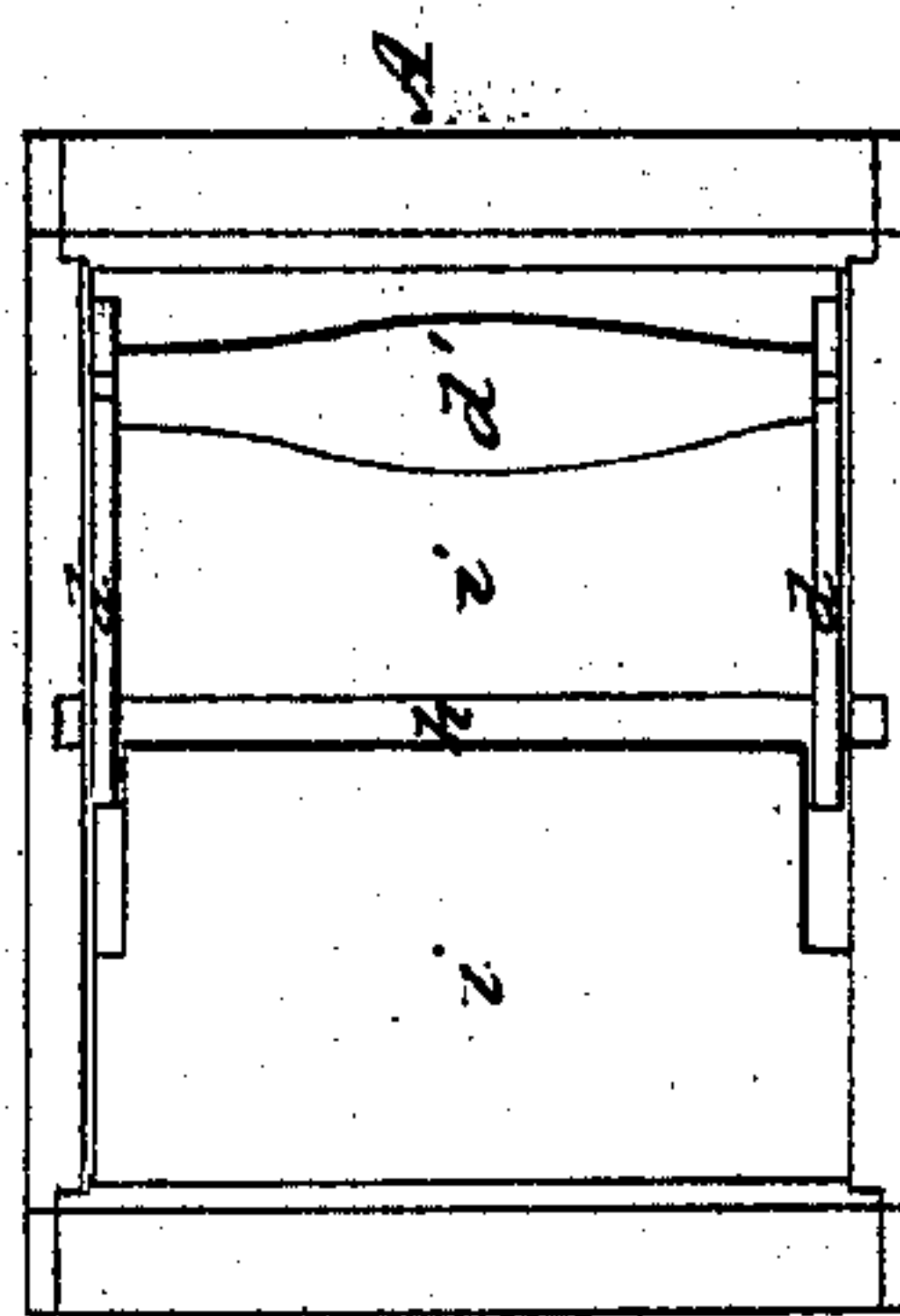


Fig. 2.



UNITED STATES PATENT OFFICE.

NOAH H. LINDLEY, OF REDDING, CONNECTICUT.

CONSTRUCTION OF CHURNS.

Specification of Letters Patent No. 2,758, dated August 25, 1842.

To all whom it may concern:

Be it known that I, NOAH H. LINDLEY, of Redding, in the county of Fairfield and State of Connecticut, have invented a new and useful Apparatus for Churning Butter and for Freeing the Same of Buttermilk, which may also be used to facilitate many other operations to which it may be successfully applicable in the arts.

The following description taken in connection with the accompanying drawings forms a full and exact specification of my invention, wherein I have set forth the nature and principles of it, by which it may be distinguished from others of like character together with such parts or combinations of the same as I claim and for which I solicit Letters Patent.

Figure 1, of the drawings above mentioned, represents an end elevation of my machine. Fig. 2, is a top view of it. Fig. 3, is a central and vertical section, while Fig. 4, is a side elevation of the vibrating dasher as removed from the reservoir or tub.

The peculiar object of my improvement is to discharge or work the buttermilk from the butter, after the formation of the latter, and by a very simple arrangement and operation, as will be hereinafter more particularly explained.

The mechanism of my improvements consist in a reservoir or tub A, Figs. 1, 2, 3 (whose bottom and sides are curved as seen at *a, b, c*, in Fig. 3, and whose ends are vertical, the curve of the sides of the reservoir A being a portion of a circle, somewhat greater than a semicircumference as denoted by the drawings), and a vibrating dasher B.

The dasher is composed of two vertical pieces *d, d*, Figs. 1, 3, 4, united near their middle parts by a transverse bar *c* Fig. 4, and at their tops by another bar *d'*, (and which is also the handle by which a person may operate the machine), and each having a bar or piece of wood *e*, suitably applied at right angles to it as seen in the drawings. The said cross bars *e, e*, having two scrapers or float-boards *f, f*, extending from one to the other of them, and so arranged that the edges of the scrapers or floats may be in contact or nearly so with the interior of the curved bottom of the reservoir. A fluted or

other suitable roller *g* is also applied to and revolves in the lower ends of the side pieces *d, d*, the circumference of said rollers, being in contact or nearly so with the curved bottom *a b c* of the reservoir. The journals of said fluted roller revolve in suitable bearings formed in the side pieces *d, d*, which latter are further connected together by a cylindrical bar or piece of wood *h*, whose ends extend beyond the side pieces *d, d*, so as to form journals upon which the dasher is suspended or connected to the ends of the box or reservoir, and which play or move in suitable bearings therein formed. Therefore when the dasher is inserted in the reservoir, by applying the hand to the bar *d'*, it may be vibrated or moved to and fro therein or into a position on either side of its center of motion as represented by the dotted lines in Fig. 3.

The upper or open part of the tub or reservoir may be covered by suitable inclined lids or boards *i, i*, Figs. 2 and 3, which may be received or slid into grooves properly formed in the ends of the tub, or may be otherwise suitably arranged.

The operation of the above machine is as follows. The reservoir being properly filled with cream and the dasher moved back and forth, butter is soon produced, the rotary movement of the fluted roller *g*, caused by its resting in contact with the interior of the curved part of the reservoir, together with the action of the floats or scrapers, creating such an agitation of the fluid, as to greatly facilitate the process of churning; and when the same is completed, the buttermilk may be drawn from the tub A (through a plug hole *k*, suitably formed through the lower part of one end of the reservoir), the butter remaining therein. By continuing to vibrate the dasher the fluted roller spreads or rolls the butter over the curved bottom of the tub at each vibration thereof the same being scraped up and raised or turned over by the advancing float or scraper *f*, and so thoroughly is the butter thus operated upon, that the buttermilk is effectually discharged therefrom and flows out the plug hole *k*.

Having thus described my invention I shall claim—

The combination of the vibrating floats or

scrapers, fluted roller of the dasher and the stationary bottom of the reservoir, the whole being constructed and operating together substantially in the manner and for the purposes as herein before set forth.

In testimony that the foregoing is a true description of my said invention and im-

provements I have hereto set my signature this twenty second day of June in the year eighteen hundred and forty two.

N. H. LINDLEY.

Witnesses:

R. H. EDDY,
EZRA LINCOLN, Jr.