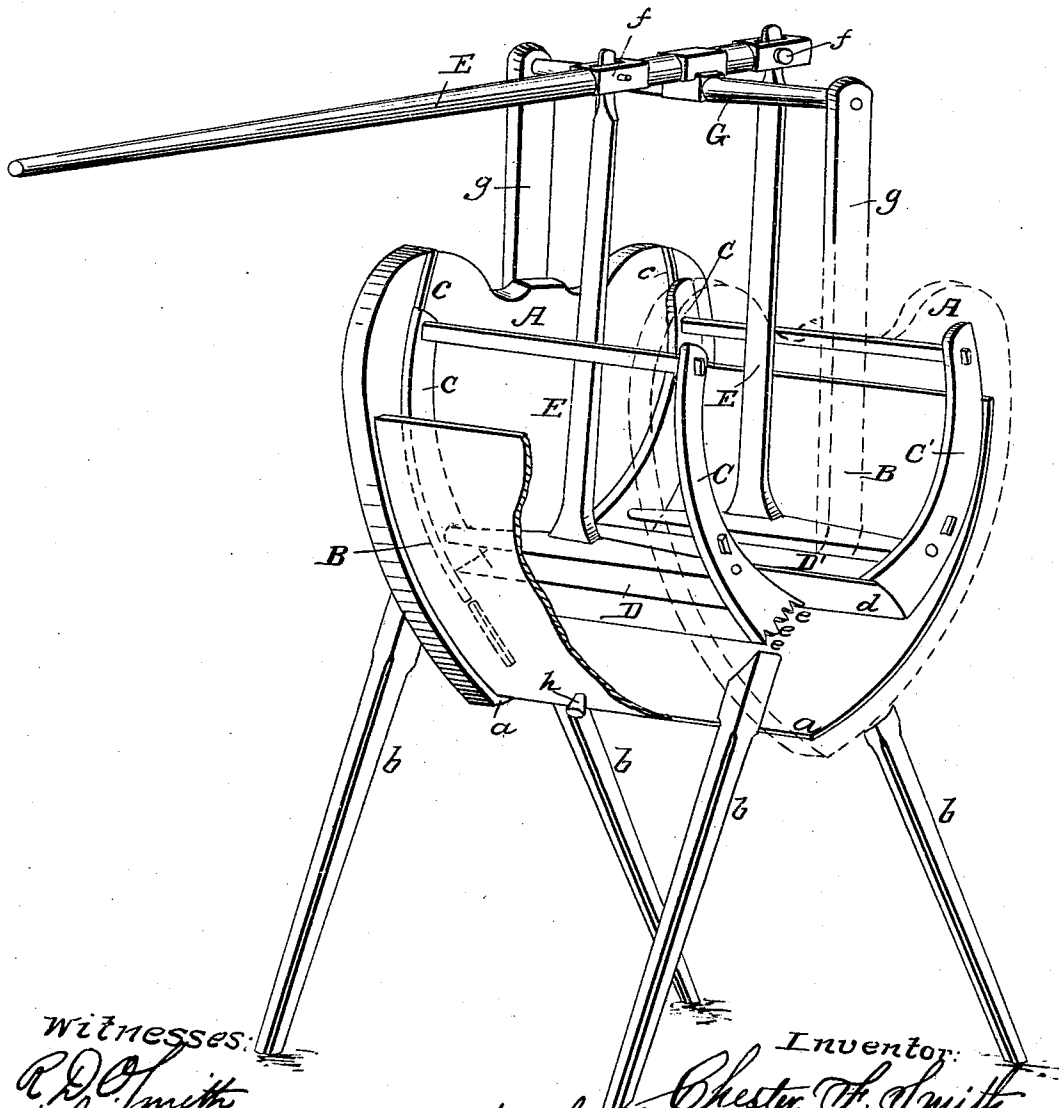


C. F. SMITH.
Butter Worker.

No. 53,192.

Patented March 13, 1866.



Witnesses:
R. D. Smith
Charles C. Lee.

Inventor:
Chester F. Smith
By his Attorney J. B. Woodruff

UNITED STATES PATENT OFFICE.

CHESTER F. SMITH, OF LITCHFIELD, CONNECTICUT.

IMPROVEMENT IN BUTTER-WORKERS.

Specification forming part of Letters Patent No. 53,192, dated March 13, 1866.

To all whom it may concern:

Be it known that I, CHESTER F. SMITH, of the town and county of Litchfield, in the State of Connecticut, have invented certain new and useful Improvements in Butter-Workers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, in which the figure represents a perspective view of the machine, with the side and end broken off, showing the working parts.

The object of my invention is to work all of the buttermilk out and form the butter into rolls without handling.

My invention consists in the heart or shield shaped box or tub to receive the butter, and in the form and construction of the stamps or beaters fitted to work in grooves in the ends of the shields, the same being attached to a hand-lever, so that by its up-and-down motion the butter between the beaters is alternately compressed and is rolled half over at each motion of the lever.

To enable others skilled in the art to make and use my invention, I will describe its construction more in detail, referring to the drawing, and to the letters marked thereon, as also its mode of operation.

I make the ends A A of the tub of sugar-maple or other sweet, hard wood, somewhat in shape of a heart or shield, in order to get two oblique curves to come to a point, *a a*. In the lower portion I cut grooves, into which are fitted bent sides B B, which can be put together, so as to remain water-tight, the tub being supported on four legs, *b b b b*, secured to the outsides of the shields A A, thus placing the machine at a suitable height for the convenience of operating. On the upper portion of the inside of the shields A A, I cut circular grooves *c c* to conform to the curves of the bent sides B B, into which grooves *c c* are fitted frames C C', which are also curved to conform to the sides B B. To the bottom of the frame are stamps or beaters D D'. In

the bottom of one are a series of small grooves, *e e e*, or, as it is termed, "fluted," the other being a single concave or a faint hollow, *d*. These stamps or beaters D D' are made to be alternately moved up and down by rockshafts and pitmen E E', which connect with a lever, F, by joints and pins *f f*, the hand-lever F being supported on a shaft, G, over the center of the tub, having its bearing in two vertical posts, *g g'*, secured to the outside of the shield-shaped ends A A. The buttermilk and rinsing-water is drawn off at the spigot *p* at the bottom of the tub.

The operation of my butter-worker is as follows: When the butter is taken from the churn it is placed in the tub and by a few strokes of the lever it is gathered in between the stamps or beaters. The concave beater D', when it presses down, rolls the butter half-way over, at the same time moving it to the opposite side. The fluted stamp or beater D, when pressed down by the action of the lever F, cuts the butter in creases and presses it to the opposite side, when it is again compressed and rolled half way over by the concave stamp, and so alternately till the buttermilk is all eradicated and drawn off at the spigot.

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

1. The form and construction of the shield-shaped tub, as described, for the purpose herein specified.

2. The two stamps, D D', working in the circular grooves in the shields A A, the same being attached to the hand-lever F, operating in the manner described.

3. The fluted stamp D and the concave stamp or beater D', in combination with the shield-shaped tube for the purposes set forth.

Subscribed to on this 16th day of January, 1866.

CHESTER F. SMITH.

Witnesses:

HENRY B. GRAVES,
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