

Butter Worker.

No. 11,387.

Patented July 25, 1854.



UNITED STATES PATENT OFFICE.

ELIHU RING, OF MECKLENBURG, NEW YORK.

BUTTER-WORKER.

Specification of Letters Patent No. 11,387, dated July 25, 1854.

To all whom it may concern:

Be it known that I, ELIHU RING, of Mecklenburg, in the county of Tompkins and State of New York, have invented certain
5 new and useful Improvements in Machines for Working Butter; and I do hereby declare that the same are described and represented in the following specifications and drawings.

10 To enable others skilled in the art to make and use my improvements, I will proceed to describe their construction and operation, referring to the drawings, in which the same letters indicate like parts in each of the
15 figures.

Figure 1, is a plan or top view of the machine. Fig. 2 is a sectional elevation through the line $z z$ of Fig. 1.

I make a frame in the form represented
20 with three parallel bars $A A^1 A^2$, and two ends $B B$. The cleats $C C$ are fastened to the rails $A A^1$ and are beveled so as to receive the cleats $D D$ fastened to the bottom of the box E . The box E is made in the
25 form represented in the drawing and there is a groove F in the sides and one end for the cover to slide in; and a groove in each side about half way between the top and bottom for the splines or strips $G G$ which
30 splines are provided with a dovetailing score for the keys $a a$ to prevent the splines from working out by the operation of the piston H which is made in the form represented and provided with scores for the splines $G G$
35 which holds the piston H in a proper position in the box and permits it to traverse when operated by the link I and crank J , which crank is upon the shaft L ; which shaft is fitted to turn in the boxes $M M$
40 fastened to the stands $N N$ upon the rails $A A'$ as represented in the drawing. The shaft L is provided with a fly wheel O , and hand winch P by which the machine may be operated. The block Q (which is about the
45 same size of the piston) is made in the form represented and provided with scores—for the splines $G G$ which hold it in its proper position and allows it to traverse when acted upon by the butter or piston H which forces
50 it back against the spring R which spring forces it forward against, as the piston is withdrawn. The spring R is made in the form represented and provided with a shank

fitted to the slot S in the bottom of the box E the lower end of the shank of the spring 55 being furnished with a screw nut to fasten it in the position required. The holes $T T$ in the bottom of the box permits the buttermilk to escape.

One or more scores may be cut in each side 60 of the box near the bottom like the one represented at V to prevent the butter from being drawn back by the piston. I contemplate that the face of the piston which acts upon the butter or the face of the block Q 65 may be scored or indented or furnished with protuberances if it should be necessary or desirable.

The machine being constructed and completed as above described. The inside of the 70 box, the piston and block Q should be wet with water to prevent the butter from adhering to them. The winch should be turned so as to draw the piston back and the butter to be worked placed in the box 75 between the piston and the block Q , when the piston may be operated by turning the winch so as to compress the butter and force out the buttermilk; the spring R permitting the block Q to yield as the butter is forced 80 against it, until the layer of butter is pressed so thin that the machine ceases to produce any effect upon it; when the machine may be stopped and the layer of butter may be doubled over so as to form two or more 85 thicknesses between the piston and the block Q and the machine put in operation again.

The abovementioned process may be repeated until the butter is worked as much as may be necessary or desirable; and by 90 changing the position of the spring R the block Q may be set so as to adapt the machine to the quantity of butter to be worked.

What I claim as my invention and desire to secure by Letters Patent in the above de- 95 scribed machine for working butter, is—

Arranging the block Q to traverse as described in combination with the spring R or its equivalent to force it forward in the operation of working butter substantially as 100 described.

ELIHU RING.

Witnesses:

DANIEL PHILBRICK, Jr.,
DAVID POST.