W. SWEET.

Butter-Worker.

No. 202,481. Patented April 16, 1878.

Fig. 1

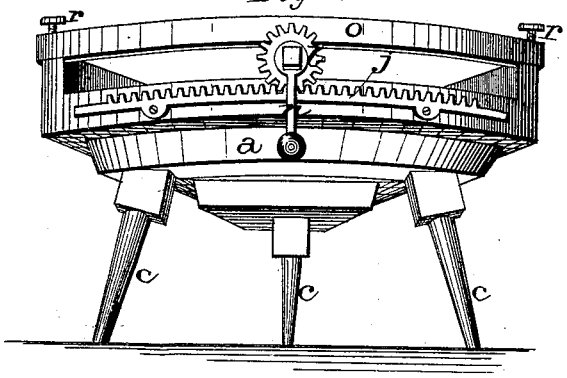


Fig. 2

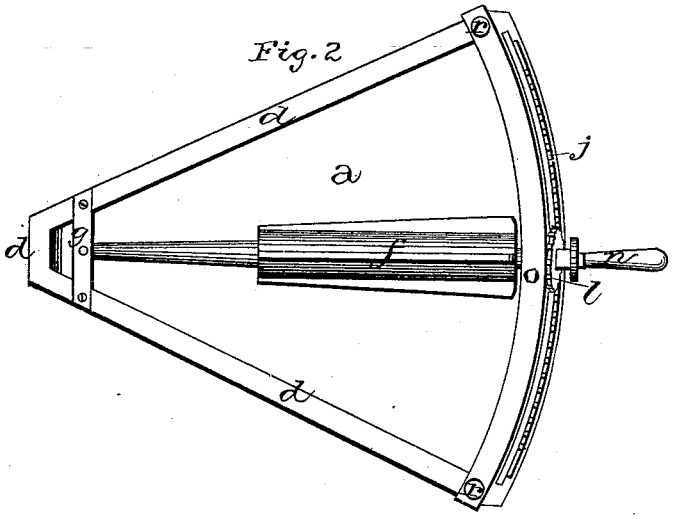
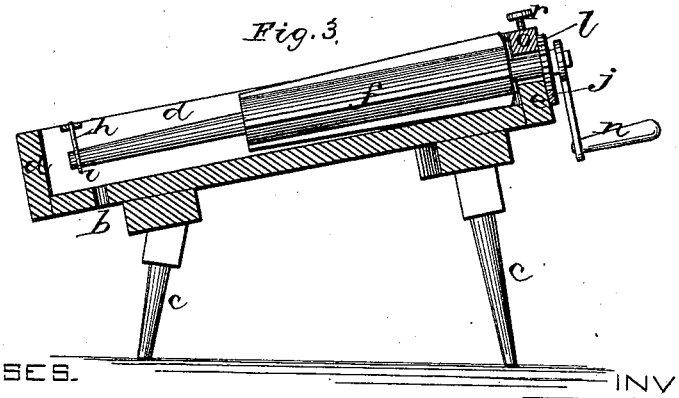


Fig. 3.



WITNESSES.

J. W. Garner.

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UNITED STATES PATENT OFFICE.

WILLIAM SWEET, OF SOUTH GRANVILLE, NEW YORK.

IMPROVEMENT IN BUTTER-WORKERS.

Specification forming part of Letters Patent No. **202,481**, dated April 16, 1878; application filed January 24, 1878.

To all whom it may concern:

Be it known that I, WM. SWEET, of South Granville, in the county of Washington and State of New York, have invented certain new and useful Improvements in Butter-Workers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in butter-workers; and it consists in the construction of parts and combination of devices, whereby a cheap, simple, and efficient machine is produced, as will be more fully described hereinafter.

The accompanying drawings represent my invention.

a represents an inclined table or board, made almost pointed at its lower end, and provided with the escape-hole *b* for the brine, while the upper end is made wide and forms the arc of a circle. This table is supported upon the legs *c*, and has upon its two sides and lower end a flange or side, *d*, sufficiently wide to readily hold any desired quantity of butter to be worked.

Around the upper curved edge is also formed a flange, *e*, which will be made wide in proportion to the diameter of the roller *f* that is used in working the butter.

Across the lower end of the sides *d* is placed a support, *g*, through the center of which is swiveled the rod *h*, which forms the bearing for the journal *i* in the lower end of the roller *f*. This roller is made fluted a portion of its length, or provided with paddles, as may be preferred, and is made to roll back and forth over the butter as it lies on the table, so as to press the brine out of it.

To the outer side of the flange *e* is secured the rack *j*, in which the pinion or spur-wheel *l* on the outer end of the roller *f* engages, so that by turning the crank *n* the roller will be forced back and forth in either direction desired.

In order to hold the roller down upon the board or table, the bar *o*, conforming to the shape of the rear end, is placed over the neck of the roller, and each end of the bar is secured to a side, *d*, by means of a screw, *r*, or other suitable fastening.

By thus holding the roller down upon the board it is prevented from rising upward over the butter, and the butter will be well squeezed, the roller forming grooves through the butter each time it rolls over it, and down these grooves the brine runs toward the hole *b*.

In order to prevent the roller from running in the same grooves all the time, at each end of the rack *j* several teeth are removed, so that when the roller reaches the end of the teeth it may be moved sidewise a slight distance, so that when the operator starts it across the table again the ribs or paddles may be prevented from striking the same grooves made in the last passage across.

By this construction it is evident that the whole mass of butter will be thoroughly kneaded, and the brine pressed out in a very short time, without the long and tiresome process of working it now in use.

By this machine the butter can be more thoroughly kneaded, much less time is required, and the operation is so simple that a child can do the work as well as a grown person.

I am aware that a table provided with racks for the pinions of the rollers to work in, and a roller provided with paddles and held down upon the table by strips over its ends, are old, and these I disclaim.

My invention relates exclusively to that class of butter-workers which have an inclined triangular table and a roller working over the same; and the principal feature of my invention is pivoting the inner end of the roller in a swiveled rod suspended from a cross-bar above the table, in such a manner that there is no obstruction whatever on the table in the way of the proper working of the butter.

Having thus described my invention, I claim—

As an improvement in that class of butter-workers which have an inclined triangular table and a roller working over the same, the

rod *h*, swiveled in a cross-bar, *g*, above the lower end of the table, and the roller *f*, provided with journal *i*, inserted in an eye in the lower end of the rod *h*, and operated by means of the pinion *l* and rack-bar *j*, arranged at the upper end of the table, as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 17th day of January, 1878.

WILLIAM SWEET. [L. S.]

Witnesses:

DAVID W. HERRON,

WILLARD J. WHITNEY.