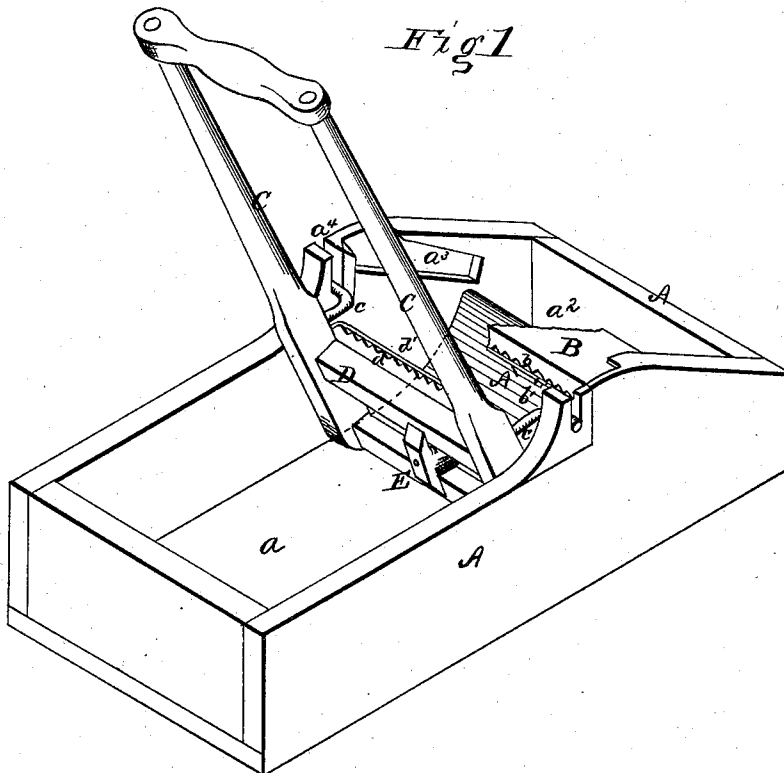


2 Sheets—Sheet 1.

M. HUTCHINSON.
BUTTER-WORKER.

No. 177,844.

Patented May 23, 1876.



WITNESSES

H. L. Oursand
P. M^{re} Nickle.

INVENTOR

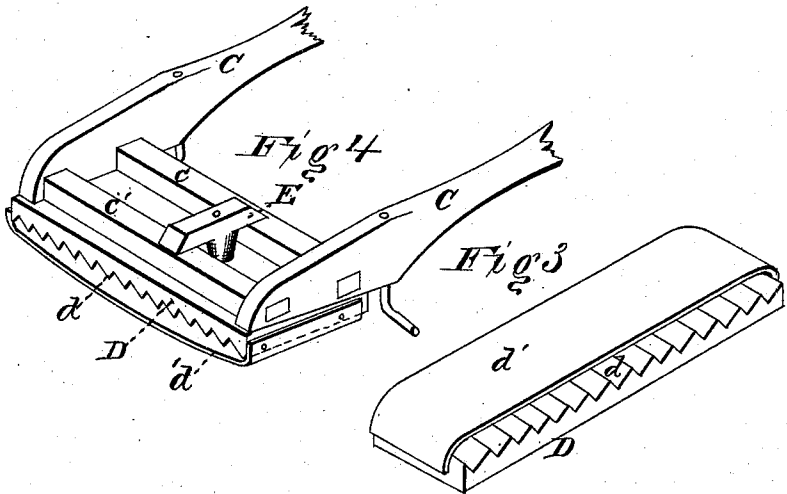
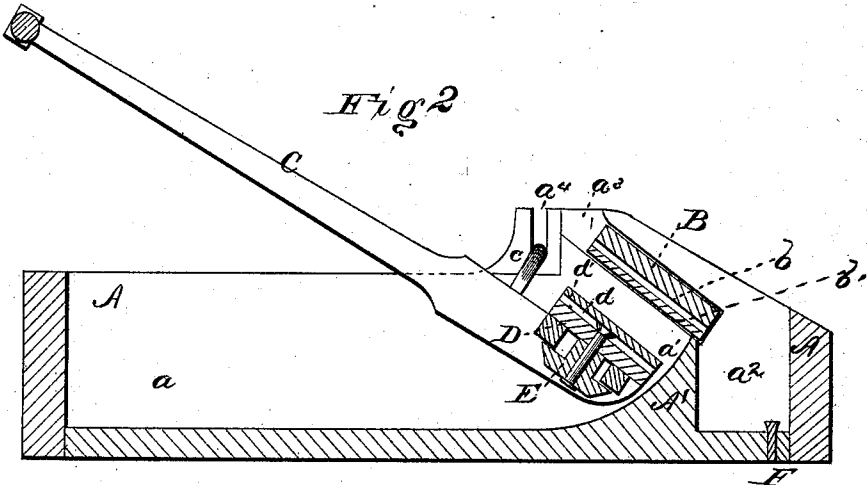
Moses Hutchinson

By *L. Deane.*
Attorney

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WITNESSES
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UNITED STATES PATENT OFFICE.

MOSES HUTCHINSON, OF OWATONNA, MINNESOTA.

IMPROVEMENT IN BUTTER-WORKERS.

Specification forming part of Letters Patent No. 177,844, dated May 23, 1876; application filed April 17, 1876.

To all whom it may concern:

Be it known that I, MOSES HUTCHINSON, of Owatonna, in the county of Steele and State of Minnesota, have invented certain new and useful Improvements in Filtering Butter-Workers, of which the following is a specification:

Figure 1 is a perspective, showing the entire device. Fig. 2 is a vertical central section lengthwise of the device. Fig. 3 is a view of the under side of the movable filter, showing it as attached to the arms. Fig. 4 is a detail, showing the covering attached to the grooved face of this filter.

The present invention relates to that class of devices known as "butter-workers;" and consists more particularly in such construction and arrangement of the several parts that in operation it will clearly and completely extract all the milk from the butter by a sort of pressure and filtering process, whereby, in flavor and grain, the butter will come out in a perfect state, all as will now be more in detail set out and explained.

In the drawings, A denotes the box or receptacle, which is adapted to hold and contain or carry all the operative parts of the machine. This box or receptacle is made of any convenient form and size, and has, preferably, at one end of the butter-space a , a partition, A' , which rises up from the bottom part way to the top, and is curved on the side toward the butter-space, as now shown at a^1 , while on the opposite side, toward the water-space a^2 , it may be perpendicular or inclined, or made in any suitable way. To the sides of the box or receptacle A, supported in suitable grooves a^3 , or otherwise detachably fastened or adjusted, is the upper filter B, which is made of any suitable material, and having a corrugated, fluted, or grooved face, b , upon and over which is properly secured muslin, or any like or suitable material, b' . The lower end or edge of this filter is so placed relative to the upper edge or top of partition A' as to overlap it a little, and yet leave a small space between them, for the purpose to be afterward explained. The arms C are suitably journaled or hung upon the edge of the box A, now shown by hooks c fitting into notches or rests a^4 . Upon the braces C' , connecting the lower end of arms C, is adjustably affixed the under or movable filter D. This is now shown as accom-

plished by means of clamp E. This filter is grooved on its upper face at d , like the upper filter, and in like manner this face is covered with muslin or other suitable material, d' .

As thus made, the operation of the device is very simple. By the movement of the arms C, a proper amount of butter is drawn up the incline a^1 , and finally so pressed between the upper and lower filters that all the butter-milk is pressed out, and finds its way down the chamber, between the contiguous grooved or corrugated faces of these filters, into the water-space a^2 , whence it may be emptied or bailed out, or drawn off by a spigot. I have now shown the latter at F.

When the filters are to be cleaned, they may be rinsed in hot water, or may be taken out, and the covering then removed from their faces, and both cover and filter can be easily cleaned.

In ordinary use it will be found that these covers prevent any considerable or troublesome accumulation of dirt or butter, or other substance.

These covers can be tacked on or clamped on, so as to be readily detached or attached.

In operation it will be found that this machine will fully express the buttermilk, and will not injure the butter by bruising or breaking the grain. Thus the flavor of the butter is always kept sweet and perfect, and the butter is in the very best shape for sale or use.

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

1. In a suitable butter receptacle or box, A A' , the combination of filter B, having grooved face b , covered as described, with movable filters C D d , substantially as and for the purposes set forth.

2. A filtering butter-worker, adapted to press the butter between filters, having grooved surfaces, properly covered with muslin or analogous flexible filtering material, substantially as and for the purposes described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

MOSES HUTCHINSON.

Witnesses:

EDWARD DONALDSON,
M. A. DAILEY.