

W. S. and E. H. Shoemaker

Butler Worker

PATENTED APR 19 1870

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Fig: 1

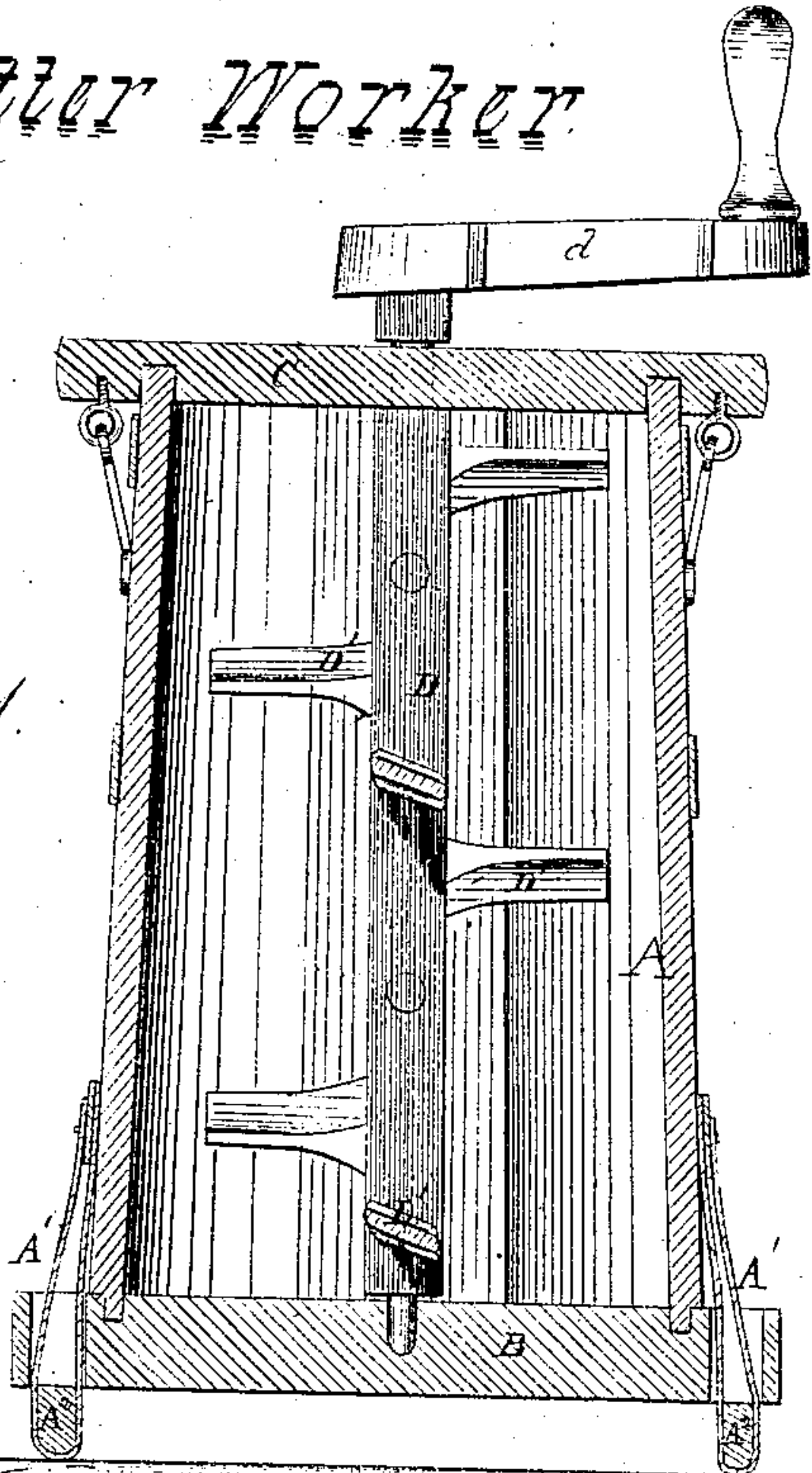
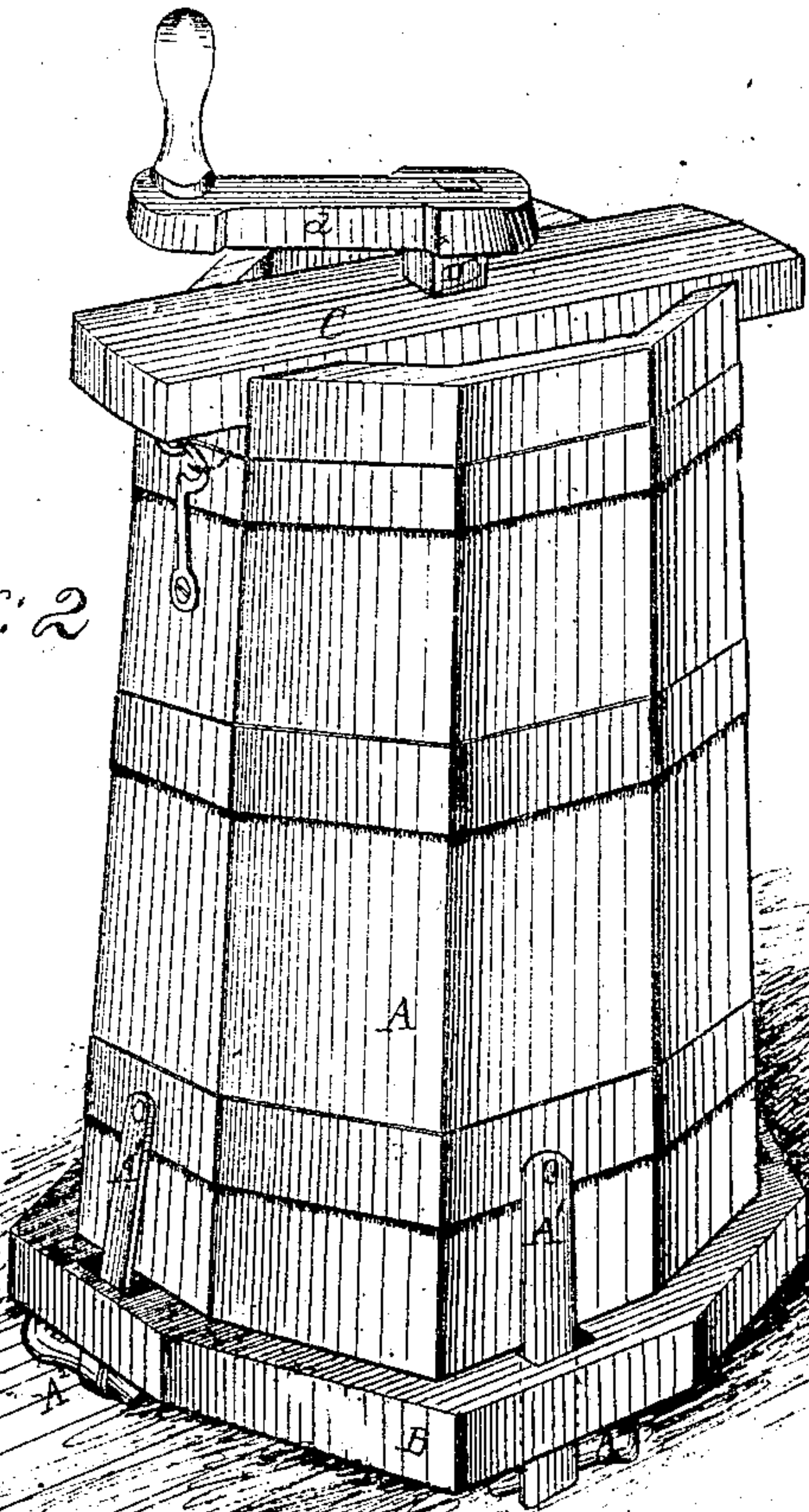


Fig: 2



Witnesses  
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# United States Patent Office.

WILLIAM S. SHOEMAKER, OF TOWSONTOWN, MARYLAND, AND E. H. SHOEMAKER, OF COLUMBUS, OHIO.

Letters Patent No. 102,055, dated April 19, 1870.

## IMPROVEMENT IN BUTTER-WORKER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, WILLIAM S. SHOEMAKER, of Towson town, Baltimore county, Maryland, and E. H. SHOEMAKER, of Columbus, Franklin county, Ohio, have invented an "Improved Butter-Worker; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1 is a sectional elevation.

Figure 2 is a perspective view.

The same letters of reference indicate like parts in each of the figures.

Our invention relates to machines for working butter after it is taken from the churn for extracting the buttermilk, said machine also being employed in salting the butter.

Our improvement consists in the construction, combination, and arrangement of the parts of which our device is composed, as hereinafter more fully set forth.

To enable others to construct and use our invention, we will describe its construction and use.

A represents a tapering hollow vessel, which may be made of wood or any other suitable material. It is to have a many-sided form, an octagonal shape being shown in the drawings, so that the butter, as it is being agitated, may be compressed in the corners, and thus the buttermilk more fully extracted than would be possible in a cylindrical vessel.

When made of wood it is to be hooped with iron bands, to the lower one of which are secured several metal straps, A<sup>1</sup>, projecting downward and extending through slots in the removable bottom.

B represents the bottom of the vessel, being of a similar shape, but somewhat larger, so that it projects some distance from it on all sides.

The lower end of the vessel A is provided with a tenon or tongue, which fits snugly in a corresponding groove in the upper surface of the bottom.

These two parts are held together by means of the straps A<sup>1</sup> extending through slots in the bottom, and wedges, A<sup>2</sup>, passed through the straps under the bottom.

O represents a cross-bar fitted in notches in the upper end of the vessel A, and held in position by means of hooks and staples, as shown. It is provided with a central perforation to form a bearing for the agitator.

D represents the agitator, which is placed in the vessel, its lower end being provided with a pivot, which

has its bearing in a socket in the center of the bottom B, while its upper end extends through the perforation in the cross-bar, which forms a bearing for it at that point.

Upon its extreme outer end it is provided with a crank, d, by which to turn it.

On that portion which is inside of the vessel A it is provided with a spiral series of teeth or dashers D'. These dashers are flat bars or arms placed diagonally on the shaft, so that, when turned in the direction of the arrow, they will work and compress the butter against the bottom B.

The operation of the machine may be described as follows:

The several parts having been arranged as set forth, a quantity of new-made butter is fed the machine through the apertures in its top, and the agitator turned a few times to make it somewhat compact. The whole device is then laid upon its side and the agitator put in motion, when the butter will be gradually worked toward and pressed against the bottom B, thereby expelling the buttermilk, which runs out of the open end of the vessel. A sufficient quantity of salt is then put in the device, and, by means of the agitator, thoroughly worked in the butter. The cross-bar and agitator are then together removed, and the butter made compact by a ladle or otherwise, after which the wedges are knocked out of the straps and the machine righted, when the vessel A can be lifted off the butter, which is then ready to be placed in tubs or other packages.

Having thus described our invention,

What we claim, and desire to secure by Letters Patent of the United States, is—

1. In combination with the vessel A, the removable bottom B, wedges A<sup>2</sup>, straps A<sup>1</sup>, and cross-bar O, as shown and described, and for the purpose set forth.

2. The combination of the vessel A, removable bottom B, straps A<sup>1</sup>, wedges A<sup>2</sup>, and agitator D, with dashers D', as set forth.

Signed at Columbus, Ohio, this 9th day of October, 1869.

W. S. SHOEMAKER

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