

J. THOMPSON.
Butter-Workers.

No. 159,000.

Patented Jan. 19, 1875.

Fig. 1

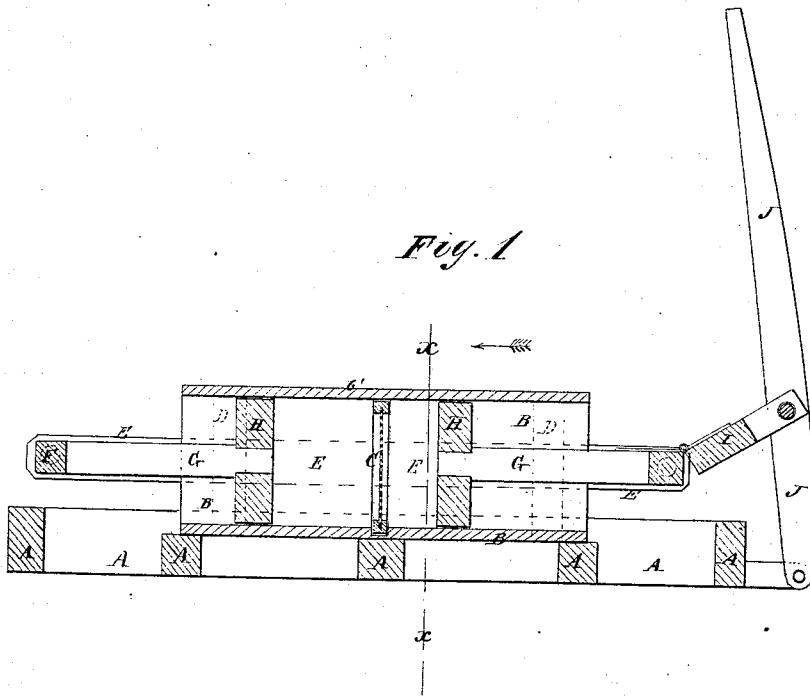
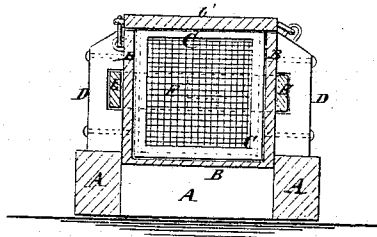


Fig. 2



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

JOSEPH THOMPSON, OF ALBANY, WISCONSIN.

IMPROVEMENT IN BUTTER-WORKERS.

Specification forming part of Letters Patent No. **159,000**, dated January 19, 1875; application filed September 19, 1874.

To all whom it may concern:

Be it known that I, JOSEPH THOMPSON, of Albany, in the county of Green and State of Wisconsin, have invented a new and useful Improvement in Butter-Worker, of which the following is a specification:

Figure 1 is a longitudinal vertical section of my improved butter-worker. Fig. 2 is a vertical cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved machine for working butter, which shall be simple in construction, convenient in use, easily operated, and effective in operation, working the butter thoroughly, and bringing it to a uniform color, thus making its grade higher. The invention consists in the combination of the sliding bars, the rollers, the arms, the followers, and the grate, with the box and the base-frame, as hereinafter fully described.

A is a frame, formed of two longitudinal bars, and a number of cross bars. To the middle part of the frame A is secured a box, B, which is made with close bottom and sides, and with open ends, and which is provided with a closely-fitting cover, *b'*, hinged at one of its side edges, and secured at its other side edge when closed by hooks and staples or other convenient fastenings. In grooves in the center of the sides and bottom of the box B is inserted a grate, C, which, in a full-sized machine, is designed to be cast with diamond-shaped holes. The sides of the box B are strengthened by posts D, which are secured to the side bars of the base-frame A, and in the inner parts of which are formed notches or mortises to receive the slide-bars E, so that the said bars may slide longitudinally along the outer sides of the sides of the box B. To the ends of the slide-bars E are pivoted the trunnions of two rollers, F, to the center of each of which is attached the end of an arm or bar, G. To the free ends of the arms G are attached the followers H, which are so formed as to fit snugly into the box B. The arms G

are made of such a length that when either of the followers H rests against the grate C the other may be at the end of the box B. To one of the rollers F is hinged the end of an arm, I, to the other end of which is pivoted a lever, J. The lower end of the lever J is pivoted to the end cross-bar of the frame A, or to a support attached to said cross-bar, and its upper end projects into such a position that it may be conveniently reached and operated by the operator.

In using the machine the butter to be worked is placed in the box B between the grate C and one of the followers H. The cover *b'* is then closed, and the lever J is operated, moving the followers H back and forth through the box B, and forcing the butter back and forth through the grate, working it thoroughly, and bringing it to a uniform color in a very short time.

A great advantage of this machine is that the butter can be forced back and forth through the machine without being removed. In previous machines the butter, after passing once through the machine, dropped into the vat or tray, and had to be raised each time and again put into the machine, when more than one passage was required. In my machine, when the butter has been sufficiently worked one of the followers is raised, and the butter is pushed into the vat with a ladle or other suitable instrument.

To clean the machine, both followers H are turned back, and the grate C is removed, which leaves the box B clear, so that it can be readily cleaned.

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

The combination of the sliding bars E, the rollers F, the arms G, the followers H, and the grate C, with the box B *b'*, and the base-frame A, substantially as herein shown and described.

JOSEPH THOMPSON.

Witnesses:

J. B. PERRY,
GEO. W. BARTLETT.