

E. M. PIKE.  
Butter-Worker.

No. 218,311.

Patented Aug. 5, 1879.

Fig. 1.

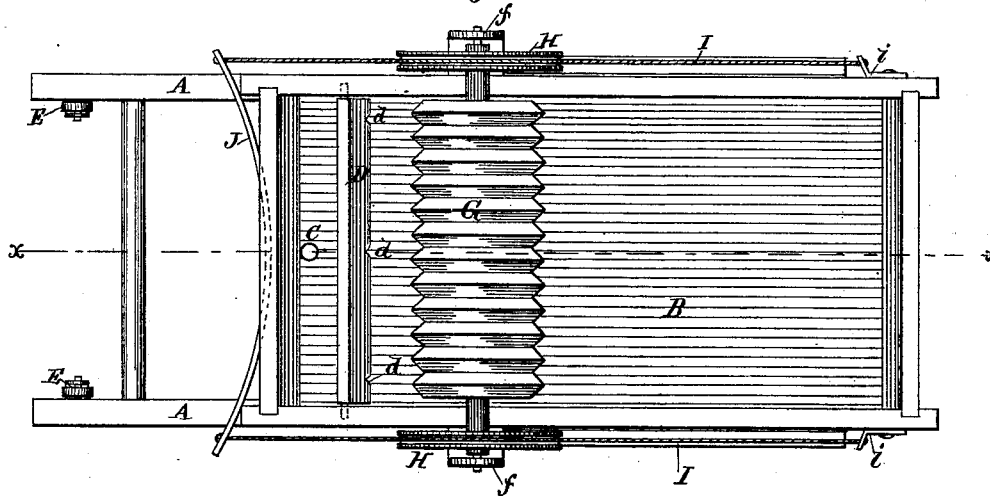
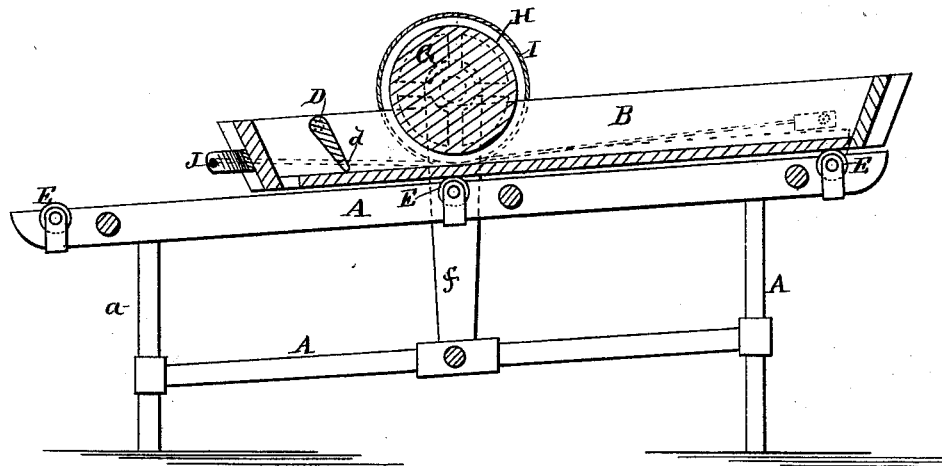


Fig. 2.



WITNESSES:

Henry N. Miller  
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INVENTOR:

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# UNITED STATES PATENT OFFICE.

EMERY M. PIKE, OF McDONOUGH, NEW YORK.

## IMPROVEMENT IN BUTTER-WORKERS.

Specification forming part of Letters Patent No. 218,311, dated August 5, 1879; application filed May 15, 1878.

*To all whom it may concern:*

Be it known that I, EMERY M. PIKE, of McDonough, in the county of Chenango and State of New York, have invented a new and useful Improvement in Butter-Workers, of which the following is a specification.

This invention relates to certain improvements on the butter-worker for which Letters Patent No. 179,053 were granted to me under date of June 20, 1876, in which apparatus a frame provided with a trough or gutter supported a reciprocating tank provided with an eduction-pipe.

My present invention consists in certain details of construction, arrangement, and combination of various parts of the apparatus, whereby provision is made for lessening the friction, for disposing of the brine, and for insuring the proper operation of the apparatus, as hereinafter more particularly described and set forth.

The accompanying drawings represent a butter-worker embodying my improvements, Figure 1 being a top view, and Fig. 2 a longitudinal vertical section.

Similar letters of reference indicate corresponding parts.

The supporting-frame A has the legs *a* at one end shorter than at the other, so as to cause the bottom of the tank B to incline from a level or horizontal plane, by which means the brine is made to collect at one end of the tank, so as to be out of the way when working the butter, and also to be more easily drawn out through the eduction-pipe *c*. Near said lower end of the tank is an apron or partition, D, consisting of a board arranged transversely of the tank, with its ends pivoted in the sides of the tank, so that it will lie in an inclined position, with its lower edge resting on the bottom of the tank, and may be raised up when desired. The lower edge of the apron D is provided with notches *d*, through which the brine may readily flow without taking large particles of butter with it.

The side rails of the inclined frame A are provided with friction-rollers E, attached to

the inner sides of said rails, and projecting slightly above their upper surface, upon which rollers the tank B rests, and by means of which the friction is lessened when the tank is reciprocated longitudinally on the frame.

On the two opposite sides of the frame, about midway of its length, are two standards, *ff*, in which is journaled a roller, G, which is here shown as grooved transversely of its length; but it may be grooved or fluted longitudinally, if preferred. At the ends of the journals of this roller are grooved pulleys H H, around which pass cords I I. One end of each cord is attached to a lug, *i*, projecting from the side of the tank, and the other end to one end of a spring, J, secured to the end of the tank and projecting beyond the sides thereof, by which means the proper tension of the cord is preserved, and the rotation of the roller is insured when the tank is moved back and forth.

If desired, there may be two rollers arranged as described, and one of them may be grooved transversely and the other longitudinally; or the tank or vat may be stationary, and the roller made to travel back and forward over it by means of a crank for turning it.

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

1. The pivoted inclined apron or partition D, provided with openings *d* for the flow of brine, in combination with the inclined vat or tank B, as herein shown and described.

2. The combination of the vat or tank B, grooved or fluted roller G, pulleys H H, and cords I I, having their ends secured to the tank, as shown and described, for the purpose specified.

3. The combination, with the pulleys H H, tank B, and cords I I, of the spring J, as shown and described, for the purpose specified.

EMERY MARTIN PIKE.

Witnesses:

C. E. KEOUGH,  
H. D. READ.