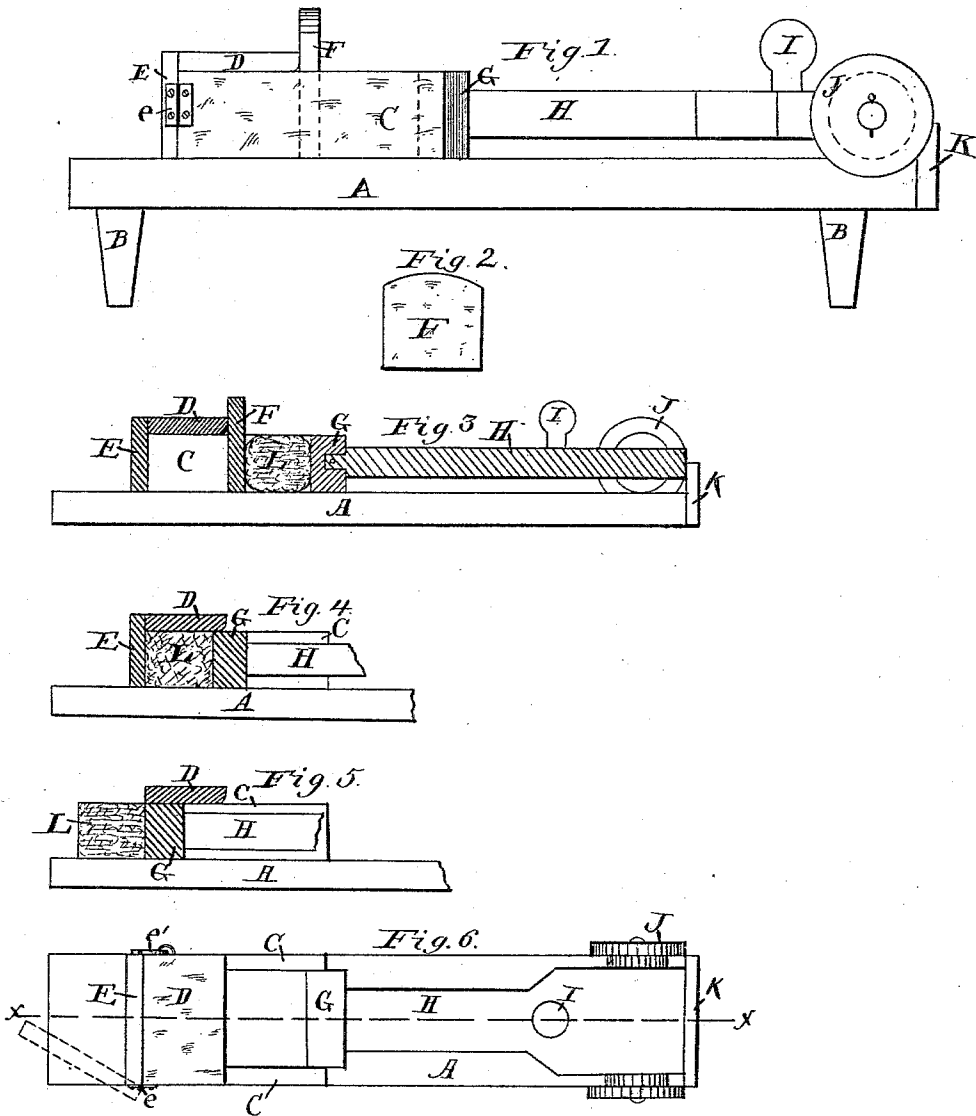


(No Model.)

A. H. BINGHAM.
BUTTER MOLDING MACHINE.

No. 339,364.

Patented Apr. 6, 1886.



Witnesses:
A. S. Mitchell
W. Mitchell

Inventor:
Albert H. Bingham
by S. W. Bates
his atty.

UNITED STATES PATENT OFFICE.

ALBERT H. BINGHAM, OF BENTON, MAINE.

BUTTER-MOLDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 339,364, dated April 6, 1886.

Application filed May 23, 1885. Serial No. 166,472. (No model.)

To all whom it may concern:

Be it known that I, ALBERT H. BINGHAM, a citizen of the United States, residing at Benton, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Butter-Molding Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to machines for molding or pressing butter into cakes after it has been worked to extract the buttermilk.

The object of my invention is to make a butter-press which shall be more simply and cheaply constructed than those now in use, and which can be operated without the use of the powerful levers used in the ordinary presses.

20 My invention consists in the construction and combination of the several parts of the present device, all as will now be more fully set forth and described.

In the drawings, Figure 1 is a side view; Fig. 3, section through Fig. 6. Figs. 4 and 5 are same at different stages of the operation. Fig. 6 is a plan. Fig. 2 is a detail.

A is a bed-piece supported on legs B B.

30 C C are two side pieces, which are covered on one end by the top piece, D. The door E fits over one end, being hung to side piece, C, by hinge *e*, and fastened by the hook *e'*. The sides C C, top D, and door E together form an inclosed space on three sides, which is the size of the proposed "brick" of butter. The plunger or follower G is made to exactly fit the space between sides C C and top D. This follower G is attached to the front end of the carriage H, which is supported on the back end by the wheels J J. The wheels J J are flanged and run on the edges of the bed A.

40 I is a handle, by which the carriage H can be rolled back and forth.

F is a stop or board, which fits between the sides C C, for the purpose hereinafter explained.

45 K is a stop by which the backward motion of carriage H is limited. When the butter is to be molded, the carriage is drawn back against stop K, and board F is placed against the edge of top D and between sides C C. The space thus formed between F and the face of

50 follower G should contain just the quantity of butter required in one brick. The butter L is then placed in the space between F and G, and the board F removed. The carriage H, bearing the traveler or follower G, is then shoved along, pushing the mass of butter into the inclosed space under D. The carriage is now withdrawn and rolled quickly back several times, making the follower strike against the inclosed mass of butter. The strength of the blow required varies with the condition of the butter and the weight of the carriage and follower. The butter is by this operation thoroughly compressed, filling the mold completely full, and any buttermilk remaining in it is pressed out. (See Fig. 4.) The door E is then swung open and the carriage H is pushed along, carrying with it the butter L, until the butter is clear of the press. The brick of butter can then be handled in a variety of ways. It can be pushed off onto a board, for instance, or otherwise disposed of. The face of follower which comes against the butter may be provided with a stamp, and in this case I should make the table where the butter comes out to let down with a hinge, bringing the stamped face upward.

55 The purpose of the carriage H, as here used, is to add to the momentum with which the follower G strikes the butter. Its weight adds to the force of the blow.

60 It is evident that the carriage need not necessarily be rolled on two wheels, for a single wheel may be used, or it may slide on ways or on the smooth top of the bed-piece. Its main use and purpose is to add by its weight to the force of the blow against the butter. So with the door E, a variety of devices may be used to stop up this end. The face of follower G may be plain, or it may be cut in a pattern, or it may have a removable face containing a design.

65 I am aware that it is old to provide hay and cheese presses with sides and top and a swinging door, a follower and compressing device, but I do not claim a press. On the contrary, what I desire to secure by Letters Patent is a device which may be quickly operated, and which will compress butter and force the buttermilk out of it by a succession of quick taps.

70 I therefore claim—

1. In a butter-press, the smooth bed-piece A, the sides C C, top D, which extends only a short distance along the press, and door E, in combination with the carriage H, provided with the follower G, and sliding freely on the bed-piece A, and constructed substantially as described, whereby the follower may be moved rapidly backward and forward, and the handle I, secured to said carriage, substantially as and for the purposes explained.

2. In a butter-press, the smooth bed-piece A, sides C C, top D, which extends only a short distance along the press, and door E, in combination with the carriage H, provided with the follower G, the handle I, secured to the top of said carriage, and the rollers J J, secured to the bottom of the carriage, substantially as described.

3. In a butter-press, the smooth bed-piece A, sides C C, top D, board F, and the door E, in combination with the carriage H, provided with the follower G, and sliding freely

on the bed-piece A, and free to be moved rapidly backward and forward, substantially as set forth.

4. In a butter-press, the bed-piece A, provided with a stop, K, the sides C C, top D, and the door E, in combination with the carriage H, provided with the follower G, and sliding freely on the bed-piece A, substantially as set forth.

5. In a butter-press, the main bed-piece A, provided with the stop K, the sides C C, top D, board F, and the door E, in combination with the carriage H, having the follower G thereon, and sliding freely on the bed-piece, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT H. BINGHAM.

Witnesses:

H. D. BATES,
S. W. BATES.