

(No Model.)

2 Sheets—Sheet 1.

G. LUSTED.
BUTTER PRINTER OR MOLDER.

No. 586,387.

Patented July 13, 1897.

Fig. 6.

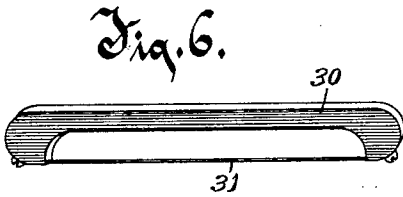


Fig. 1.

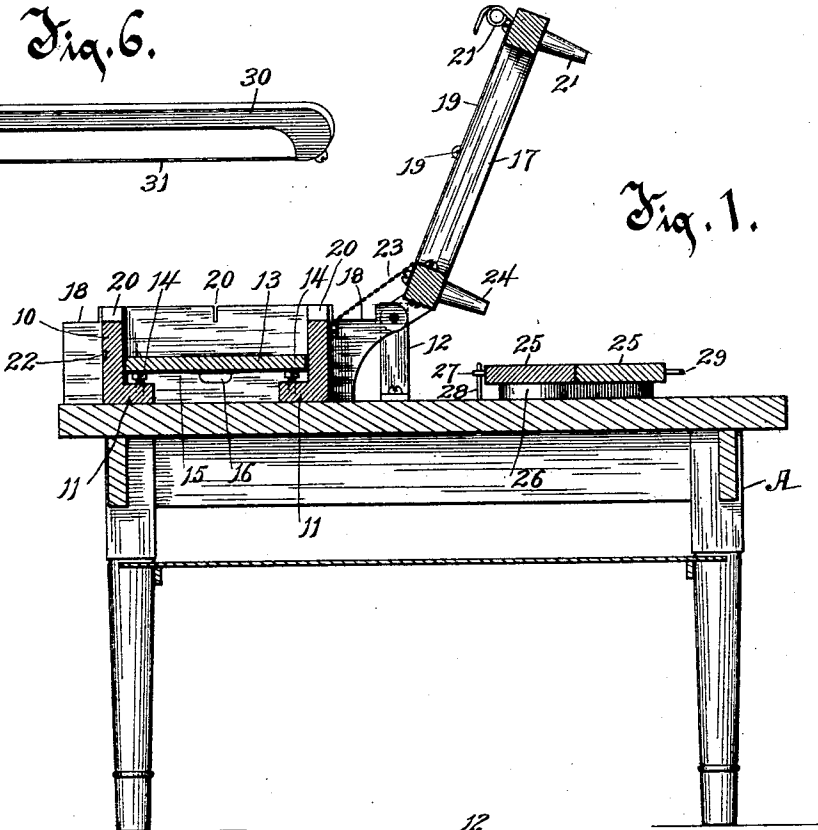
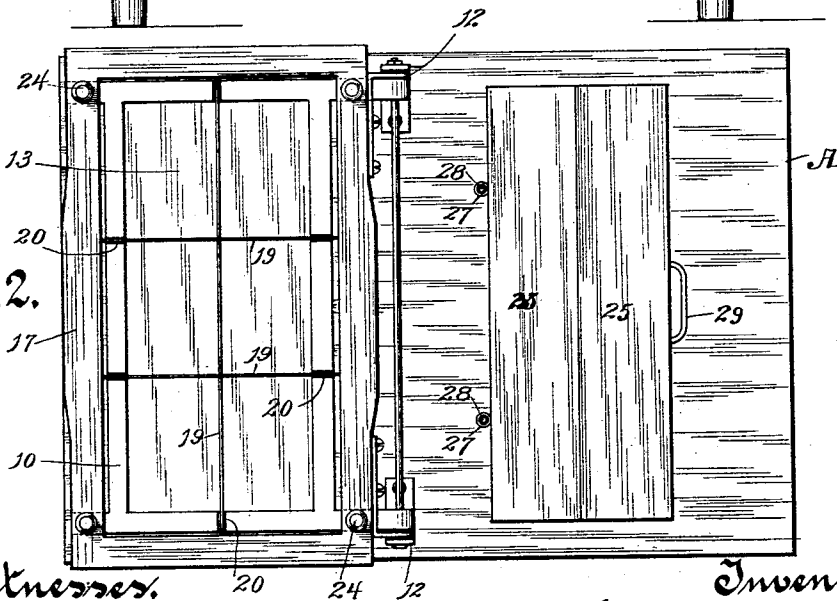


Fig. 2.



Witnesses.

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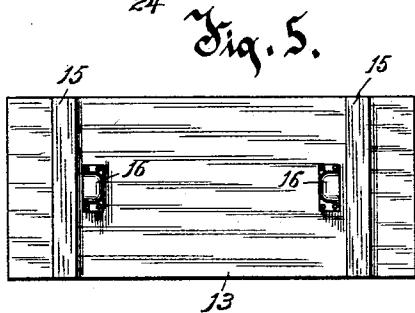
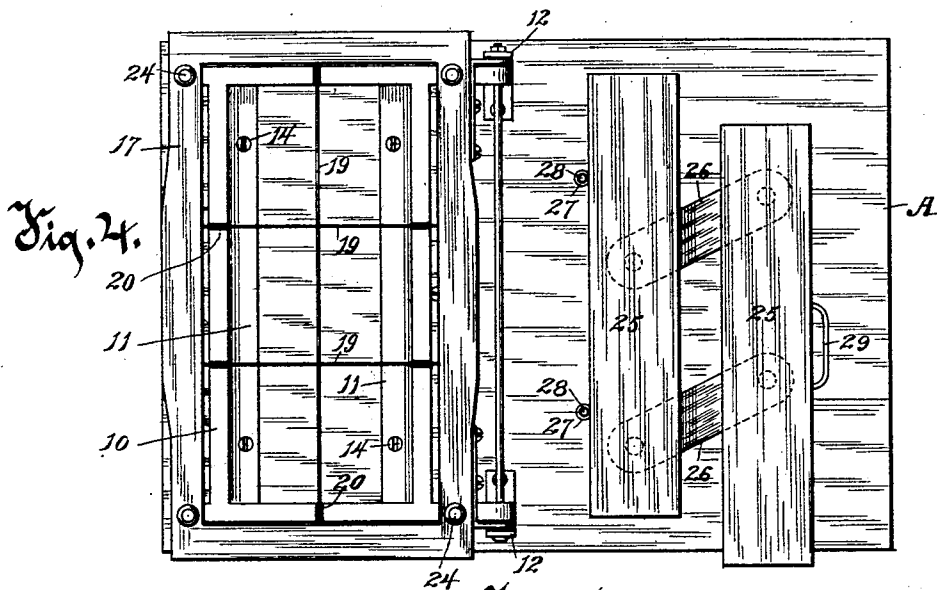
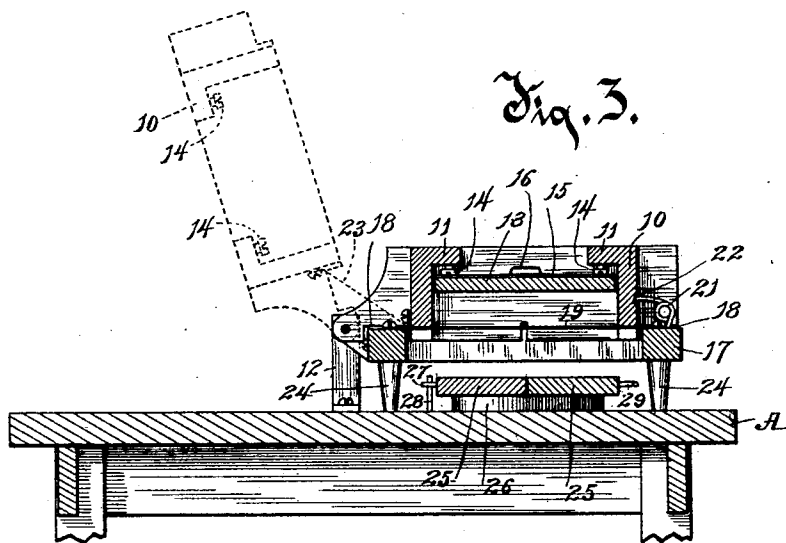
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UNITED STATES PATENT OFFICE.

GEORGE LUSTED, OF LAKE MILLS, WISCONSIN, ASSIGNOR TO THE F. B. FARGO & COMPANY, OF SAME PLACE.

BUTTER PRINTER OR MOLDER.

SPECIFICATION forming part of Letters Patent No. 586,387, dated July 13, 1897.

Application filed February 20, 1897. Serial No. 624,438. (No model.)

To all whom it may concern:

Be it known that I, GEORGE LUSTED, of Lake Mills, in the county of Jefferson and State of Wisconsin, have invented a new and useful
5 Improvement in Butter Printers or Molders, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

The object of my invention is to provide a
10 simple, easily-operated, and enduring device or apparatus adapted conveniently and satisfactorily to the reduction of a mass of butter to a molded or brick form without unnecessary and improper rubbing, working, or
15 manipulating of the butter and so as to put the butter in a most desirable form for the market, both so far as relates to preserving it in the best possible condition and quality as well as putting it in an attractive and convenient form for sale and for use.
20

The invention consists of the apparatus, its parts, and combinations of parts, as hereinafter described and claimed, or their equivalents.

25 In the drawings, Figure 1 is a longitudinal section of my improved butter-printer as arranged and supported on a table, the position of the parts being such as the apparatus is in when ready for receiving butter for molding
30 and printing. Fig. 2 is a top plan view of the same apparatus, the positions of the parts being those of the apparatus when butter has been placed in it and the brick or block separating device has been folded down onto the
35 butter-receiving receptacle or box. Fig. 3 is a section of the apparatus substantially on the same line as the section shown in Fig. 1, the devices of the apparatus being in the positions in which they are placed when in use
40 next following the positions shown in Fig. 2 and when the butter-receiving receptacle or box and the brick-separating device have been thrown over above and registering with the platform or brick-board. Fig. 4 is a top
45 plan view of the apparatus with the devices in the positions they have in use when the butter box or receptacle and the brick-separating device have been swung back from over the brick-board (the print-board being
50 removed) and the platform or brick-board has been separated to separate the bricks or

blocks of butter from adjacent blocks. Fig. 5 is the print-board, the reverse side being shown. Fig. 6 shows the butter-striker.

In the drawings, A is a table, which is a
55 convenient support for my improved apparatus, though any platform or other substantially horizontal surface would serve the purpose of this table for supporting my apparatus. A receptacle or box 10 consists of side
60 walls and inwardly-projecting flanges 11, which box or receptacle at one side is hinged to the standards 12. These standards are preferably secured to the table A, so as to obtain a proper registering and connection of
65 the various devices of the apparatus. The receptacle 10 may be of any suitable size and form desired for taking a smaller or larger amount of butter therein for printing. A bottom or print-board 13, of substantially the size
70 of the interior of the receptacle 10, is placed loosely in the receptacle, resting on the flanges 11, or preferably on adjusting-screws 14, whereby the location of the print-board in the receptacle can be adjusted with reference to
75 the opposite edge of the box, and consequently with reference to the size of the receptacle. The inner surface of this print-board may be plain, as it is shown in the drawings, or ornamental designs may be cut in the surface of
80 the board, so as to impress or form ornamental figures on the surface of the butter, as desired. Such ornamental designs are common in butter-printing, and I have not therefore shown any forms of them. On the reverse
85 side this print-board is provided with thin strengthening-straps 15 and with handles 16 for conveniently manipulating it. The straps 15 are preferably of metal and serve also as bearing-surfaces for the adjusting-screws 14.
90 A means for dividing the butter placed in the receptacle 10 into blocks or bricks of any desired size or form, preferably oblong, parallelogram, or square blocks or bricks, consists of an open frame 17 of substantially the same
95 form and slightly larger than the box 10, which frame is also hinged to the standards 12 in such manner as to close down upon and about the box 10, being adapted when so brought
100 down over the box 10 to rest on the shoulders 18 18, conveniently formed by prolongations of the end walls of the box 10. This frame

17 is provided with small wires 19 19, secured to and stretched across the aperture of frame 17 on such lines and at such distances apart and in such directions as adapts them for cutting the butter in the receptacle 10 into blocks or bricks of such size and form as desired. These cutting-wires 19 are preferably so disposed in the frame 17 that when the frame is down on the shoulders 18 and about the box 10 these wires 19 will enter the recesses 20 20 in the edge of the receptacle 10. The frame 17 is provided with a releasable spring 21, adapted, when the frame is on the box 10, to engage a catch or stop 22 in or on the side of the box. A short chain or link 23, attached at its respective ends to the box and to the frame, is advisably used to secure the box and frame in relative positions to each other. The frame 17 is also provided with legs 24, adapted to support the frame and its load when brought down to the table A over the brick-board in the manner shown in Fig. 3.

A platform for receiving the butter after it has been formed or molded and divided into bricks or blocks consists of the separable boards 25 25, of substantially the same form and size, placed side by side and preferably secured together by obliquely-disposed tying-straps 26 26, pivoted at their respective ends to the boards, the boards and straps being so disposed that the boards when brought together register with each other and may be separated the one from the other, moving in a parallel direction in the manner shown in Fig. 4. This platform or these boards are conveniently supported on the table A by resting on the straps 26, or they may be provided with short legs near their respective ends for that purpose, the construction being an equivalent for the supporting-straps and being such as could be constructed by any workman. One of these boards 25 is provided with eyes 27, fitting loosely and removably on pins 28, fixed in the table A, the disposition of the pins being such with reference to the standards 12 that the frame 17 when brought down over the platform or boards 25 will be directly over it and will register therewith in the manner shown in Fig. 3. The other board 25 is provided with a handle 29 to enable the attendant conveniently to separate that board from the other one and for removing the platform for washing or cleaning it.

The butter-striker (shown in Fig. 6) consists of a rigid bow or handle 30 and a taut butter-cutting wire 31, secured thereto and stretched thereon.

In use the several devices of the apparatus, so far as they are mounted directly on the table A, are first arranged in the positions shown in Fig. 1. Thereupon a supply of butter is placed in the receptacle 10 on the bottom or print-board 13 and is forced into the receptacle with such gentle pressure and slight manipulation as carries it into all parts of the receptacle and so as, if there are orna-

mental designs on the print-board 13, to cause the butter to enter the molds or intaglios therefor. The attendant then takes the butter-striker, Fig. 6, and, placing the wire on the top of the box 10 at one end, moves it across the top of the box from end to end, cutting through the mass of butter, which should always somewhat more than fill the box, thus separating what is above the top of the box from that in the box, and the surplus thus separated from the quantity in the box can then be readily lifted or rolled up and removed therefrom without disturbing the butter in the box or injuring the quality of the butter. Thereupon the frame 17, being the brick or block dividing device, is brought down over the receptacle 10, the cutting-wires 19 entering the butter in the receptacle a distance equal to the depth of the recesses 20. The receptacle 10 and frame 17 thereon and secured temporarily thereto by the latch 21 are then swung over to and above the butter-receiving platform or brick-boards 25, as shown in Fig. 3. Thereupon sufficient pressure is applied to the print-board 13 to force the butter in the receptacle 10 past the wires 19 and out of the receptacle 10 onto the platform or brick-boards 25. In this manner the butter is divided into bricks or blocks of the desired size and form. Thereupon the receptacle 10 is thrown upwardly and rearwardly into the position shown in dotted lines in Fig. 3. The print-board 13 is then removed, and the frame 17 is thereupon thrown back either into the position shown in Fig. 1 or over onto the receptacle in the position shown in Fig. 4. The platform 25 may then be lifted bodily from the table, carrying the butter therewith to a refrigerator or other place of storage, or, as is more commonly desired, the platform may be separated in the manner shown in Fig. 4, thus separating the bricks or blocks of butter on the line at which they have been divided by the longitudinally-disposed cutting-wire 19. In these locations the several blocks or bricks of butter may be readily enveloped in sheets of paper, either oiled or otherwise, and removed for use or for packing for the market.

In the drawings the apparatus shown is of a small size, the receptacle 10 and the frame 17 being shown as having a capacity for six bricks or blocks of butter of oblong form; but these devices may be made larger or even smaller, and the frame 17 may be provided with as many cutting-wires as required to divide the mass of butter into as many and such forms of bricks or blocks as desired. If the apparatus is made larger and so as to have more than two longitudinal series of blocks, in such case the butter-receiving platform 25 should advisedly have more boards, which may be connected together by two or more series of diagonally-disposed tying-straps, or a single series of tying-straps may be made sufficiently long to tie the several boards together separately by parallel movements.

What I claim as my invention is—

1. In a butter-molding apparatus, the combination of a box open at the top, a movable and removable bottom therein normally resting on supports in the box at a distance below the top, and a frame having butter-cutting wires arranged transversely thereof, said frame being hinged to the box so as to close on and open from the top of the box, and the box and the frame being hinged to a common support in such manner that the box may be swung over with the frame to a position above the frame.

2. In a butter-molding apparatus, the combination of a box open at the top and having flanges projecting inwardly from the walls thereof at a distance below the top, a movable bottom normally resting on the flanges, a frame provided with transverse cutting-wires hinged to the box so as to close down on the top thereof, a support to which the box and the frame are hinged at a common axis, and means on the frame to support it at a distance above the floor when swung with the box to a position in which the box is above the frame.

3. In a butter printing or molding apparatus, a butter-receptacle comprising a box with open top and bottom, an adjustable and removable bottom or print-board therein, means for adjusting the bottom with reference to the top edge of the receptacle, a frame having butter-cutting wires arranged transversely thereof, the frame being hinged to the receptacle, and means adapted to secure the frame releasably to the receptacle.

4. In a butter printing or molding apparatus, a butter-receptacle comprising a box with open top and bottom, an adjustable and re-

movable bottom or print-board therein, means for adjusting the bottom with reference to the top edge of the receptacle, a frame having butter-cutting wires arranged transversely thereof hinged to the receptacle, shoulders or supports on the receptacle to receive the frame thereon, there being recesses in the edges of the receptacle to receive the cutting-wires therein.

5. The combination with a butter-receptacle hinged to a support and having a movable bottom, and a butter-block-cutting device hinged to the receptacle and to said support, of a butter-receiving platform secured to the common support in such manner as to register with and be below the receptacle and cutting device when they are swung on their common hinge over above the platform.

6. In a butter-molding apparatus adapted for molding and dividing butter into a plurality of blocks or bricks, a butter-receiving platform comprising a plurality of boards of like size and form secured to each other separably by a plurality of parallel tying-straps all arranged in the same direction with reference to each other and obliquely with reference to the boards, said straps being independent of each other but severally pivoted to the boards, means for securing one of the boards releasably in stationary position, and means on another of said boards for conveniently seizing it for separating the boards against the hold of such securing devices.

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

GEORGE LUSTED.

Witnesses:

A. W. GREENWOOD,
ROSE RUTHERFORD.