(No Model.)

J. M. CRILEY.

BUTTER PRESS OR PRINTER.

No. 409,734. Patented Aug. 27, 1889.

Fig. 2.

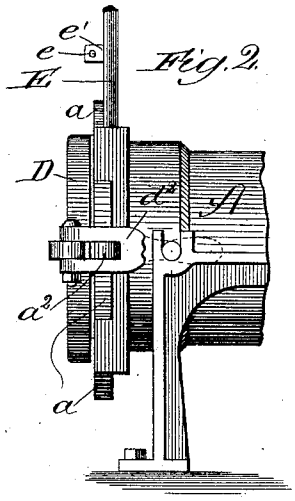
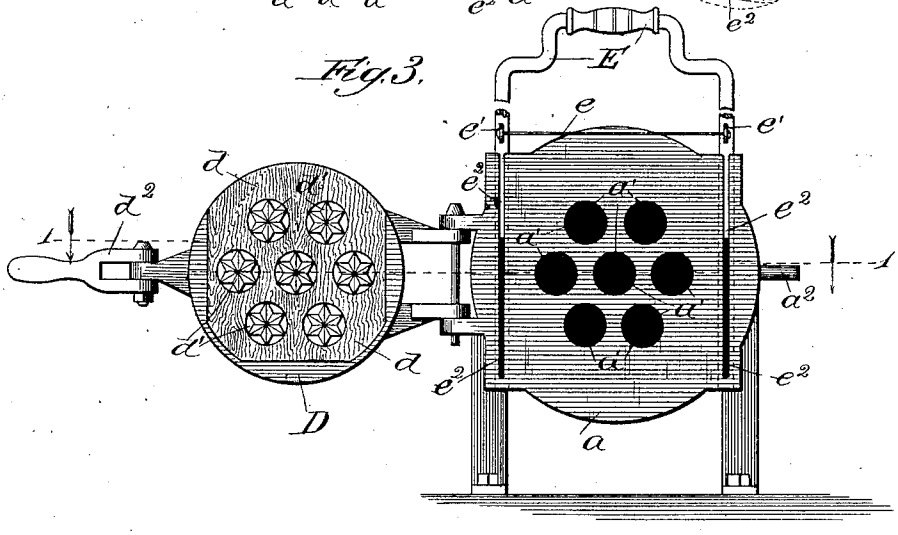


Fig. 1.

Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN M. CRILEY, OF LOVELAND, OHIO.

BUTTER PRESS OR PRINTER.

SPECIFICATION forming part of Letters Patent No. 409,734, dated August 27, 1889.

Application filed November 6, 1888. Serial No. 290,157. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. CRILEY, a citizen of the United States, residing at Loveland, in the county of Clermont and State of Ohio, have invented a new and useful Improvement in Butter-Presses and Printers, of which the following is a specification.

At present butter intended for use in hotels, restaurants, &c., is pressed and printed by small hand-prints, each "pat"—small cake—separately.

The object of my invention is to provide for pressing and printing these pats by machinery, a number at a time; and the invention consists in the features and combinations hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan sectional view taken in line 1 1 of Fig. 3, showing the cylinder-actuating mechanism, beveled holes, &c.; Fig. 2, a broken side elevation, and Fig. 3 an end elevation, of the cylinder with the cap thrown open.

A is the cylinder; *a*, the head-plate thereof; *a'*, beveled holes in the head-plate; and a^3, a cam-shaped lug on the head-plate; B, a piston or plunger; C, mechanism for operating the plunger; D, a hinged cap at the end of the cylinder; *d*, a wooden plate fitted and held therein; *d'*, dies, shapes, or molds for forming the pats; and d^2, a handle on the cap adapted to fit over the cam-shaped lug a^2 for locking the cap against the head-plate; E, a cut-off moving up and down to cut off the pats; *e*, the wire knife thereof; *e'*, lugs for securing the ends of the wire knife, and e^2 slots in which the lugs *e'* fit and move vertically.

My improved butter press and printer is constructed and intended to operate about as follows: It comprises a suitable barrel or cylinder of any size desired, preferably made of galvanized iron and capable of being opened to receive the butter. In one end of this cylinder are holes or openings beveled outwardly—that is, so as to be smallest at the outside—through which the butter is intended to be pressed. There may of course be as many of these openings as desired, and they may be of any size and shape desired. I prefer to use a head-plate at this end made separate from the cylinder and afterward secured thereto, and to have these beveled openings in such head-plate.

A suitable cap, also preferaly of galvanized iron, is hinged at the end of the cylinder, and inside of this cap is a plate of wood, secured by dovetailing or otherwise and provided with suitable dies or molds for forming shapes in the butter; but in some cases this cap may be secured otherwise than by hinging or so constructed that its inside plate may be omitted. When closed, this cap is fastened by a lever-lock or otherwise, and fitting against the end or head-block operates to close the cylinder.

A plunger or piston suitable for pressing the butter outwardly is inserted in the cylinder from the end opposite the head plate or cap. This plunger may be operated by any suitable mechanism. When moved forward, it forces the butter against the end or head-plate and out through its beveled holes, and in this way presses it against the cap and into its molds or dies. It is thus formed or pressed into pats, and stamped or printed with figures or designs conforming to the dies in the cap or wooden plate, and of course as many pats are formed at each operation as there are holes in the head-plate.

The pats are cut off or separated by a wire knife secured and carried in a suitable frame, preferably of wrought-iron, and capable of moving vertically, as desired. The construction of this cut-off will be readily understood from the drawings.

I do not wish to be understood as limiting myself to special forms or details of construction, as it is apparent that many changes may be made without departing from the spirit of my invention.

I claim—

1. A butter press or printer comprising a butter-holding cylinder having openings in one end beveled outwardly, a cap fitting against such end to close the cylinder and form the pats, a plunger for pressing the butter outwardly through the beveled holes and against the cap, means for actuating the plunger, and a cut-off to separate the pats, substantially as described.

2. A butter press or printer comprising a butter-holding cylinder, a head-plate at one end of the cylinder having openings beveled outwardly, a cap closing and fitting against the head-plate and having dies or molds to form the pats, a plunger for forcing the but-

ter out through the beveled holes and into the dies of the cap, means for actuating the plunger, and a vertically-movable cut-off to separate the pats, substantially as described.

3. A butter press or printer comprising a butter-holding cylinder, a head-plate at one end of the cylinder having openings beveled outwardly, a cap closing and fitting against the head-plate, a removable plate secured inside the cap having dies or molds to form the pats, a plunger for forcing the butter out through the beveled holes into the dies of the removable plate, and a vertically-movable cut-off to separate the pats, substantially as described.

4. A butter press or printer comprising a butter-holding cylinder, a head-plate at one end of the cylinder having openings beveled outwardly, a cap closing and fitting against the head-plate, a removable wooden plate dovetailed inside the cap and having dies or molds to form the pats, a plunger for forcing the butter out through the beveled holes into the dies of the wooden plate, means for actuating the plunger, and a vertically-movable frame carrying a wire knife to cut off or separate the pats, substantially as described.

5. A butter press or printer comprising a butter-holding cylinder, a head-plate at one end of the cylinder having openings beveled outwardly, a cap closing and fitting against the head-plate, a lever-lock for securing and holding the cap against the head-plate, a removable plate inside the cap having dies or molds to form the pats, a plunger for forcing the butter out through the beveled holes and into the dies of the removable plate, means for actuating the plunger, and a vertically-movable cut-off to separate the pats, substantially as described.

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Witnesses:
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