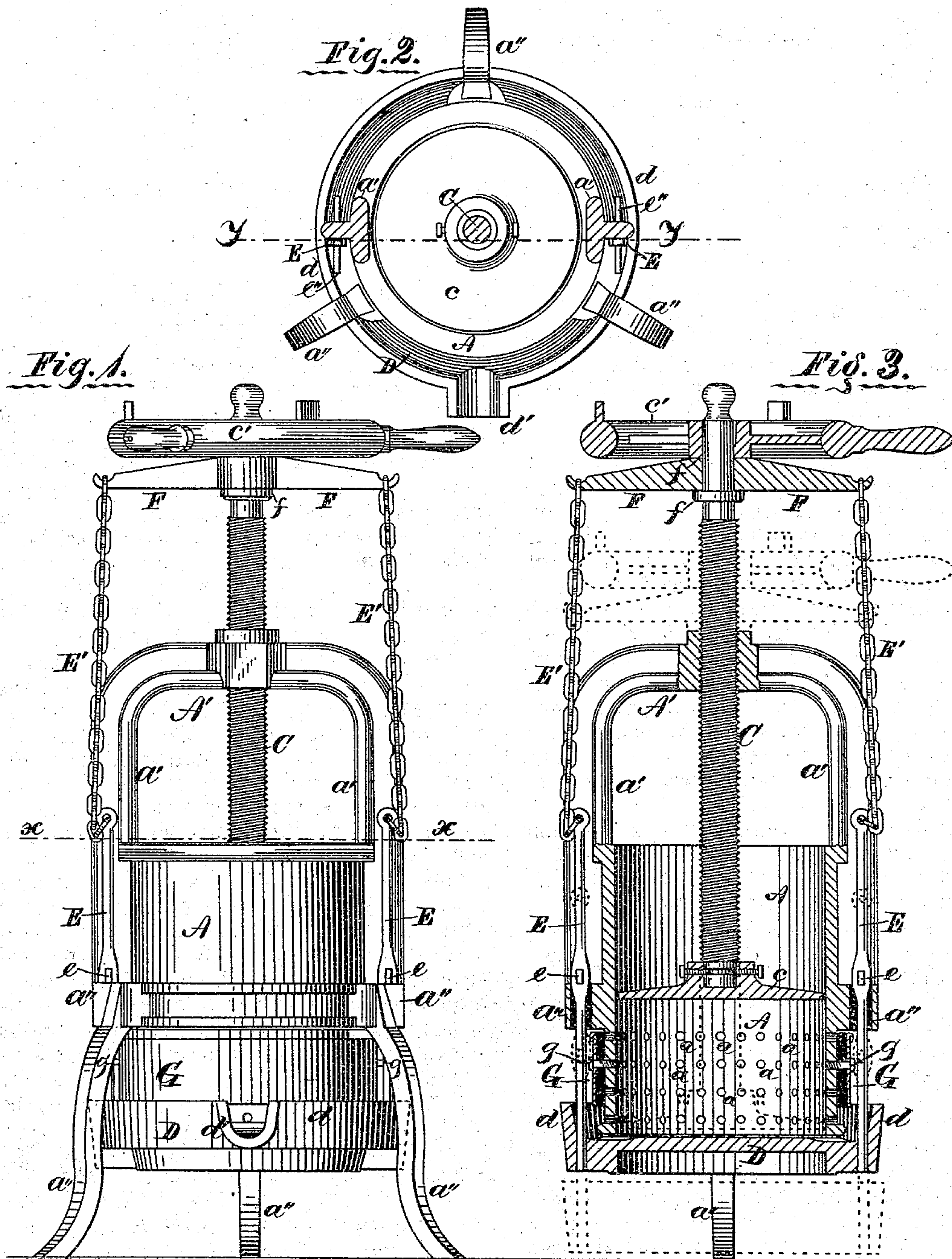


S. R. BARTLETT.
Lard-Presses.

No. 153,926.

Patented Aug. 11, 1874.



Witnesses:
M. A. Barringer
J. J. Dummcliff.

Inventor:
Samuel R. Bartlett,
By W. B. Richards,
att'y.

UNITED STATES PATENT OFFICE.

SAMUEL R. BARTLETT, OF BURLINGTON, IOWA.

IMPROVEMENT IN LARD-PRESSES.

Specification forming part of Letters Patent No. **153,926**, dated August 11, 1874; application filed July 22, 1874.

To all whom it may concern:

Be it known that I, SAMUEL R. BARTLETT, of Burlington, county of Des Moines, and State of Iowa, have invented certain Improvements in Lard-Presses, of which the following is a specification:

This invention relates to that class of presses used for separating liquids from the solids which contain them; and the nature thereof consists, first, in making the pressing floor or bottom of the colander, which contains the mass to be separated, adjustable and movable to and from the body part thereof; second, in the combination of devices with the movable bottom, by which it may be properly guided, and may be retained in a fixed position during the operation of pressing; third, in the combination of devices for raising and lowering the movable bottom in the operation of discharging the recremental matter; fourth, in improvements in construction, all as hereinafter described.

To enable others skilled in the art to make and use my invention, I will now proceed to describe the same with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a machine embodying my invention. Fig. 2 is a horizontal sectional view of Fig. 1 on the line *x x*. Fig. 3 is a vertical sectional view of Fig. 2 on the line *y y*.

Referring to the parts by letters, letter A represents the colander or receiver for the article to be pressed. It is shown cylindrical in form in the drawings, open at both ends, its lower part perforated with holes *a*, while from its upper part rise two standards or columns, *a' a'*, which are cast solid with the colander A, and, uniting at their upper ends, form a solid arch, *A'*, the upper central part of which is pierced vertically with a hole, which is threaded for the reception of the screw C, on the lower end of which is the platen or follower *c*, and on its upper end the hand-wheel *c'* or any suitable propelling device. *a'' a'' a''* are the supporting-legs. D is the bottom or pressing floor, somewhat greater in diameter than the colander A, with an annular rim, *d*, and discharge spout *d'*. E E are the suspension or lifter rods, two or more in number, their lower ends attached to the bottom D, and their central

parts passing upward through holes in projections *a''* from the sides of the colander A, their central parts having slots *e*, through which keys *e''* may be inserted, as hereinafter described, and their upper ends provided each with a chain, *E'*, the upper ends of which carry each an enlarged link, which may be readily engaged with or disengaged from the hooked ends of the lifter-arms F F, the central part of which surrounds the screw C between two collars, *f*, in such manner that said arms F will be made to traverse with the screw C. G is an ordinary ring-shield, suspended by set-screws *g* around the perforated lower end of the cylindrical colander A.

The operation is as follows: The bottom D is fixed in position for pressing by inserting the keys *e''* through the slots *e* in the suspension-rods E, and through the projections *a''*. The chains *E'* now being unhooked from the arms F, the screw C may be turned to run the follower *c* upward above the upper end of the colander A, which may then be charged with the article to be pressed. The pressing is done in the obvious manner by turning down the screw C, the recremental matter being retained in the colander A by the now fixed bottom D, and the fluid being pressed out upon the said bottom may be received in any vessel placed under its spout *d'*. The keys *e''* now being removed, and the chains *E'* hooked upon the lifter-arms F, the pressing downward may be continued, forcing the cake of compressed recrements downward with the bottom D far enough, so that it may be removed without difficulty. The bottom may be again elevated into its aforesaid fixed position by turning the screw C upward, and, when the proper position is reached, the keys *e''* are again inserted and the chains *E'* released for a repetition of the already-described operation. The colander A and arch *A'* being constructed solid will always prevent their getting out of their relative positions, and preserve the almost perfect alignment of the parts.

What I claim as new is—

1. The bottom D, movable and adjustable relatively to the colander A, substantially as described, and for the purpose specified.
2. The lifting-rods E and keys *e''*, arranged

to operate with the bottom D, and colander A, having a key-seat, *a''*, substantially as described, and for the purpose set forth.

3. The lifter-arm F, attached to the screw C, as described, and arranged to operate with the lifter-chains E', rods E, bottom D, and colander A, substantially as described, and for the purpose specified.

4. The colander A, with the arch A', for supporting the screw C, cast or formed as a part thereof, substantially as described, and for the purpose specified.

SAMUEL R. BARTLETT.

Witnesses:

WOLCOTT SEYMOUR,
WILLIAM GARRETT.