(No Model.) 2 Sheets—Sheet 1.

L. H. TAYLOR.

COMBINATION PRESS.

No. 366,526. Patented July 12, 1887.

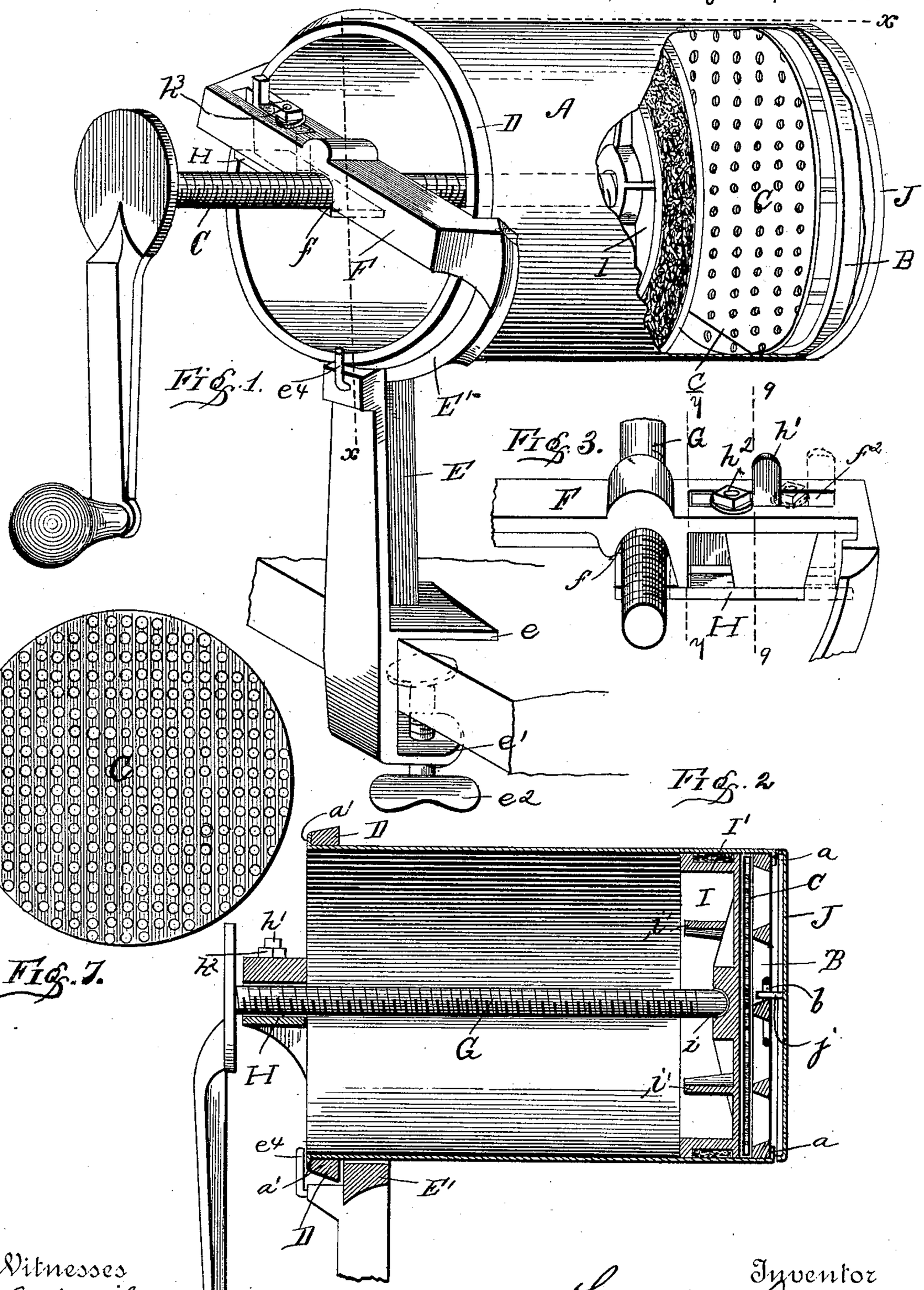

FIG. 1.

FIG. 3.

FIG. 2.

FIG. 7.

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(No Model.) 2 Sheets—Sheet 2.

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COMBINATION PRESS.

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Fig. 4.

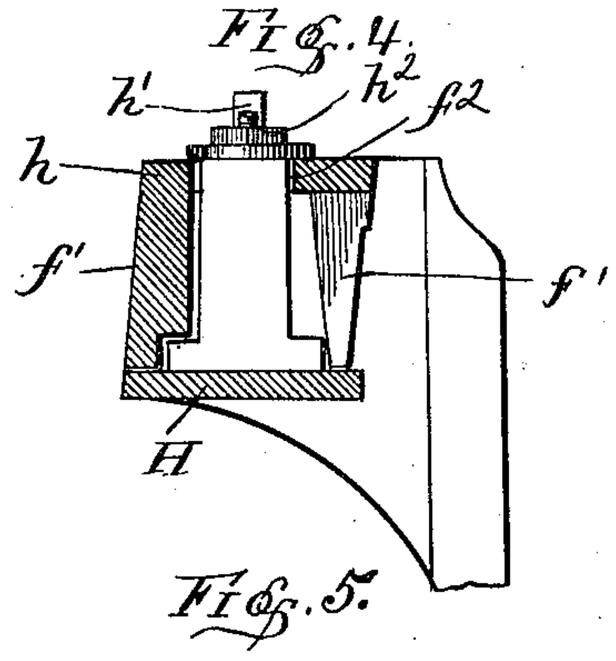


Fig. 5.

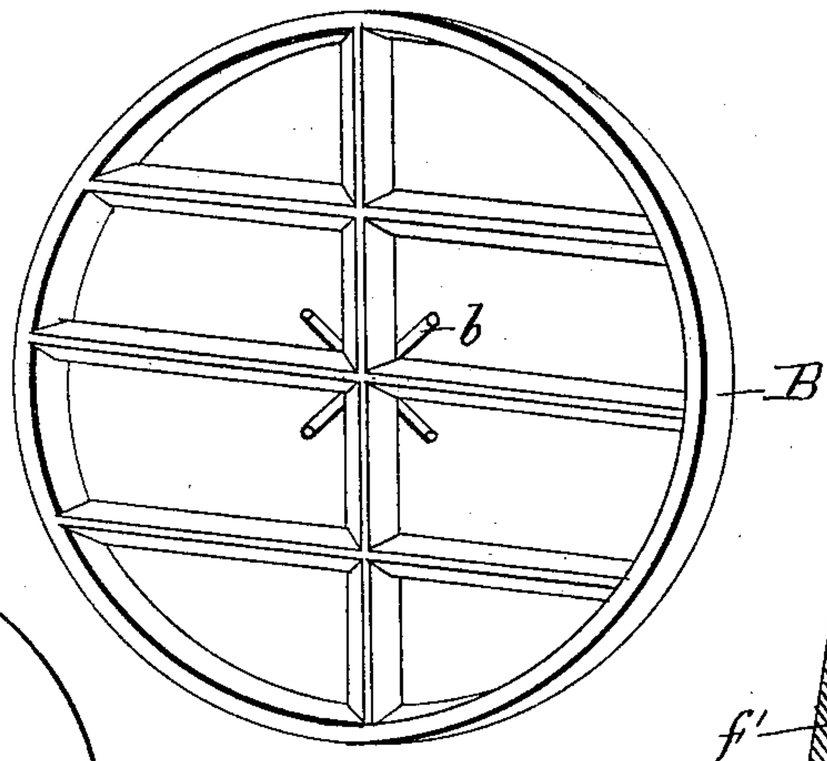


Fig. 8.

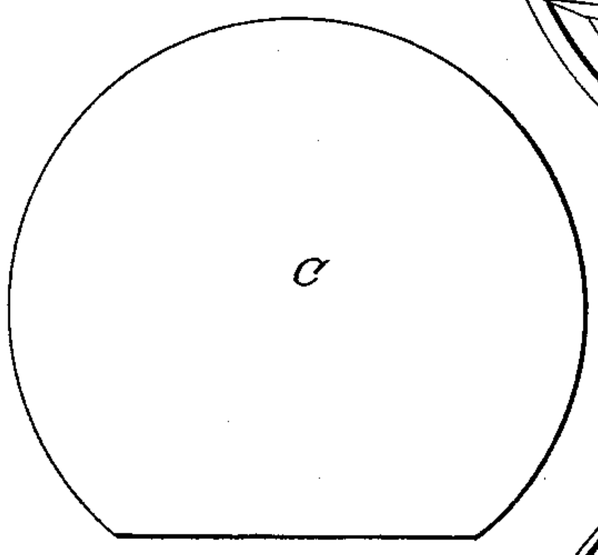


Fig. 6.

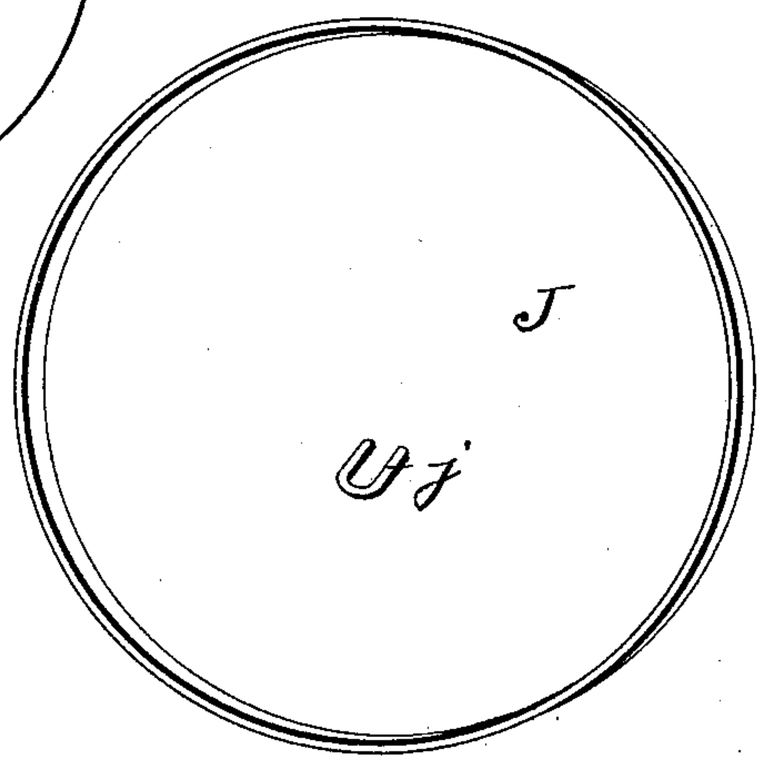
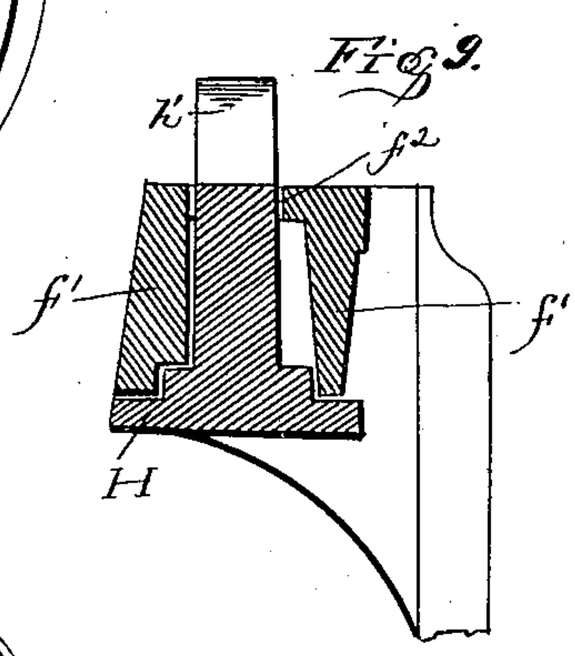


Fig. 9.



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UNITED STATES PATENT OFFICE.

LAWRENCE H. TAYLOR, OF MERCER, MAINE, ASSIGNOR OF ONE-HALF TO FRANK SMITH, OF SAME PLACE.

COMBINATION-PRESS.

SPECIFICATION forming part of Letters Patent No. 366,526, dated July 12, 1887.

Application filed April 8, 1887. Serial No. 234,132. (No model.)

To all whom it may concern:

Be it known that I, LAWRENCE H. TAYLOR, a citizen of the United States, residing at Mercer, in the county of Somerset and State of Maine, have invented certain new and useful Improvements in Combination-Presses; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to presses which are principally designed for household use and for pressing fruits, vegetables, cheese, meats, &c., and has for its object the production of a press that can be readily taken apart to be cleaned or for storing, and can be quickly set up for use.

The improvement consists in the novel features presently to be described, claimed, and shown in the drawings, in which—

Figure 1 is a perspective view of a press embodying my invention, parts broken away; Fig. 2, a longitudinal sectional view on the line X X of Fig. 1, showing the retarding-plate in position; Fig. 3, a detail perspective view showing the direction or limit of motion of the retaining-cap by dotted lines; Fig. 4, a section on the line Y Y of Fig. 3; Fig. 5, a perspective view of the grate forming the bottom of the cylinder or body of the press; Fig. 6, a perspective view of the retarding-plate; Fig. 7, a front view of the perforated plate; Fig. 8, a front view of solid or imperforate plate, having a portion removed from its edge; and Fig. 9 is a section on the line 9 9 of Fig. 3.

The cylinder or body A of the press is preferably composed of imperforate sheet metal, although any material suitable for the purpose may be employed. Its rear end or bottom is provided with an inwardly-turned flange or burr, *a*, upon which rests the grate B, which supports and strengthens the plate C. The front end or top of the cylinder has an outwardly-turned flange or burr, *a'*, against which the ring D fits, and is soldered thereto and to the cylinder.

The standard E is provided at its lower end with the clamp composed of the arms *e* and *e'* and the set-screw e^2, and at its upper end with the semicircular support E', which is attached at its middle to the standard and has its ends united by the cross-bar F. The semicircular support E' embraces the cylinder and rests against the rear side of the ring D, and the cross-bar F extends across the front of the cylinder and holds it in place against lateral displacement. The stop e^4 projects inward from the middle of the support, and, bearing on the end of the cylinder, holds the support close against the ring. The cross-bar is notched midway its ends, and the notch *f*, which receives the screw G, has a segmental thread corresponding with the thread upon the screw G, which is held in the notch and in engagement with the thread by the retaining-cap H, adapted to slide to and from said notch, so that the screw can be removed or adjusted as desired. The cross-bar to one side of the notch has flanges *f' f'* depending from each edge, between which the shank *h'* of the retaining-cap H fits and guides the cap in its movements. The cap rests against the edges of the flanges and is moved by the thumb-piece *h'*, projecting through the slot f^2 in the cross-bar. The cap may be held at either adjusted position by the nut h^2, screwed upon the threaded stem h^3 from the shank thereof and adapted to bear upon the cross-bar on each side of the slot f^2, through which the stem extends.

The follower I has an annular flange, I', grooved for the reception of the packing, and the thumb-pieces *i'*, to be grasped by the hand for removing and inserting it in the cylinder, and the socketed center *i*, for receiving the end of the screw G.

The grate supports and strengthens the plates C, which may be perforated or solid. In the latter case a portion will be cut from one side, as shown by the line *c* in Fig. 5, or more clearly in Fig. 8, leaving that portion between said line and the cylinder open for the escape of the juice or water, according as fruit or cheese is to be pressed.

The retarding-plate J, which is for catching and retaining the pomace that may be pressed through the plate C and grate, and checking the streams of juice occasioned by subjecting the pomace to hard pressure, is held close to the cylinder, so as to leave a slight space be-

tween it and the bottom of the cylinder for the escape of the juice by the eyelet or loop *j*, fitting over one of a series of radial arms, *b*, projecting from the center of the grate. In practice the standard is secured to a table or other suitable support, and the cylinder with the grate or plate in position is placed upon the semicircular support at the top of the standard, and is held thereto by the cross-bar and stop embracing the ring at the end of the cylinder between them and the support. The cylinder is filled and has the follower inserted therein previous to its being mounted upon the support, and after being mounted the screw is placed in position in the notch of the cross-bar, and is retained therein by sliding the retaining-cap over the notch. The screw can be removed and adjusted by sliding or moving the retaining-cap, as hereinbefore described. In case fruit is to be pressed, the retarding-plate is placed in position for retaining the pomace and checking the streams of juice.

The plate is shown as being flat; but it may vary from a straight line and bulge in the center, or be concavo-convex, in which event the face of the follower will be of corresponding shape.

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

1. In a press of the herein-described type, the combination of the body or cylinder having an exterior shoulder near its top or front end, the standard having a semicircular support to receive the body and bear against the shoulder thereof, the cross-bar and stop acting in opposition to the support for holding the body in position, the follower, and the screw, substantially as set forth.

2. The combination, with the body having a shoulder at its end, of the standard having a clamp at its lower end and a semicircular support at its upper end, the cross-bar uniting the ends of the support and the stop projected from the standard, the cross-bar and the stop being constructed to act in opposition to the support and embrace the shoulder on the body of the press, substantially as described.

3. In a press, the combination, with the body and the grate, of the retarding-plate, and means, substantially as described, for connecting it directly with and supporting it from the grate, and leaving a small space between the edge of the body and the retarding-plate for the escape of juices, substantially as set forth.

4. In a press, the combination, with the grate having the radial arm, of the retarding-plate having an eye or loop adapted to fit over the arm for holding the retarding-plate in position.

5. The combination, with the cross-bar having a notch provided with a segmental thread and a slot to one side of the notch, and the screw adapted to be fitted in said notch, of the sliding retaining cap, and means, as the threaded stem and nut, for holding the retaining-cap to the cross-bar and clamping it in a projected or retracted position, substantially as and for the purpose described.

6. The combination, with the cross-bar having a threaded notch provided with a segment of thread and flange projected from each edge, and a slot to one side of the notch between and parallel with the flanges, of the retaining-cap resting upon the edges of and having a portion extended between the flanges, the thumb-piece and threaded stem passed through said slot, the nut mounted upon the threaded stem for holding the cap in an adjusted position, and the screw, substantially as set forth.

7. The combination, with the body of the press and the grate, of the plate snugly fitted within the body of the press and resting against the grate and having a portion removed from its edge, substantially as and for the purpose described.

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

LAWRENCE H. TAYLOR.

Witnesses:
JAMES S. PRESSEY,
PINHANRAH CROSWELL.