No. 705,437. Patented July 22, 1902.

L. PEROTTI.

WINE PRESS.

(Application filed Oct. 8, 1901.)

(No Model.) 2 Sheets—Sheet 1.

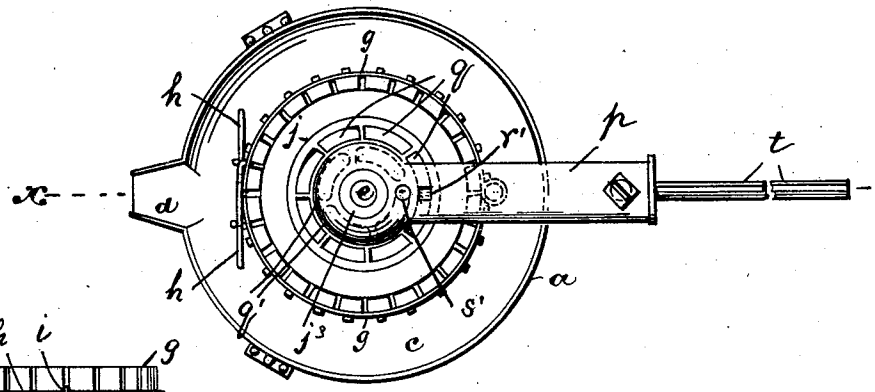


Fig. 1.

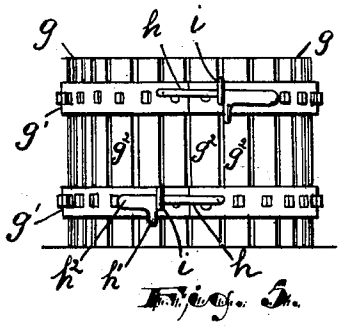


Fig. 3.

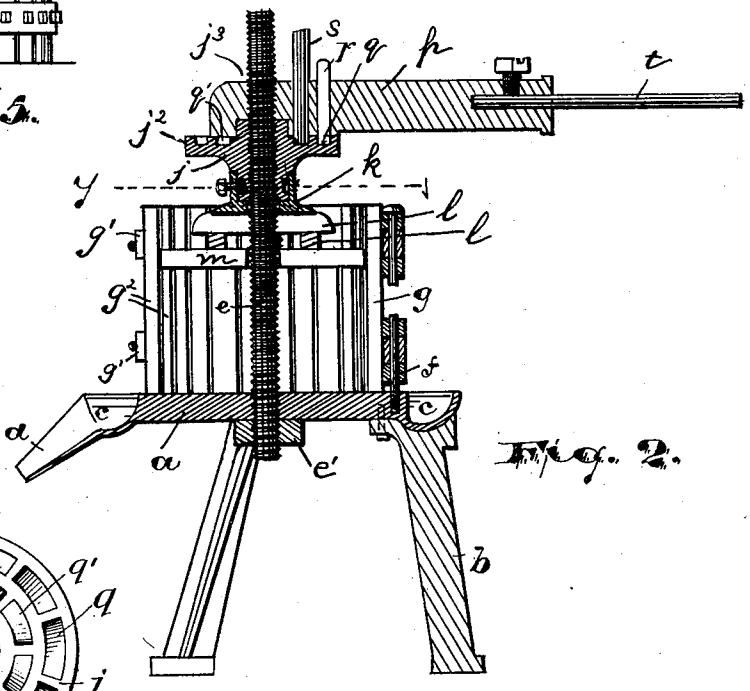
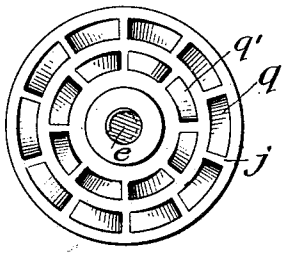


Fig. 2.

Fig. 6.



WITNESSES:

Henry Krug.

Russell M. Everett.

INVENTOR:

Louis Perotti,

BY

Drake & Co.

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 705,437. Patented July 22, 1902.

L. PEROTTI.

WINE PRESS.

(Application filed Oct. 8, 1901.)

(No Model.) 2 Sheets—Sheet 2.

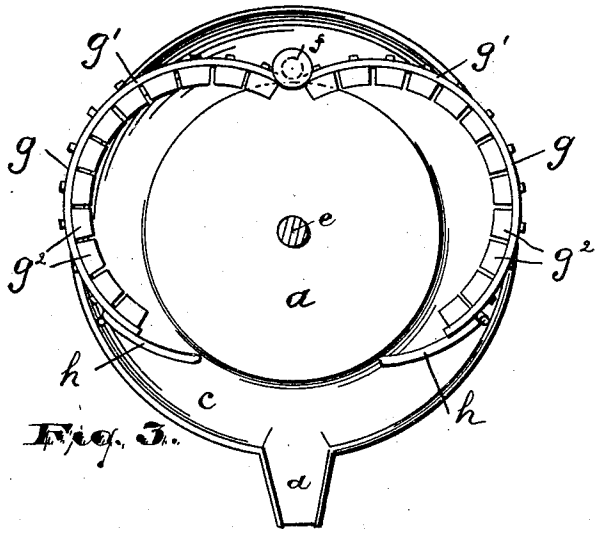


Fig. 3.

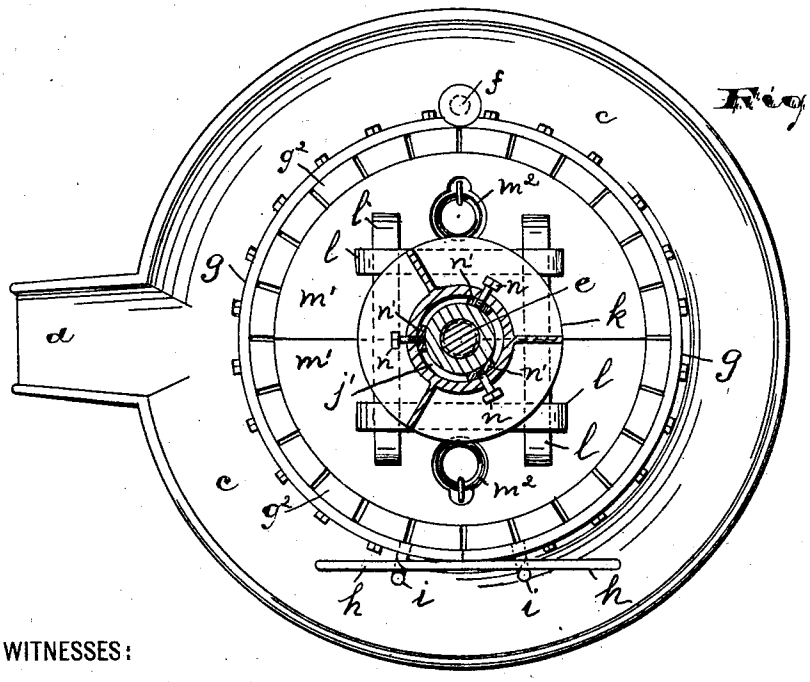


Fig. 4.

WITNESSES:

Henry Krug

Russell M. Everett

INVENTOR:

Louis Perotti

BY

D. Rakestraw

ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LOUIS PEROTTI, OF NEWARK, NEW JERSEY.

WINE-PRESS.

SPECIFICATION forming part of Letters Patent No. 705,437, dated July 22, 1902.

Application filed October 8, 1901. Serial No. 77,943. (No model.)

To all whom it may concern:

Be it known that I, LOUIS PEROTTI, a subject of the King of Italy, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Wine-Presses; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

The objects of this invention are to facilitate the operation of pressing grapes in making wine, to reduce the cost of constructing the press and render such press more convenient, strong, and durable, and to obtain other advantages and results, some of which may be hereinafter referred to in connection with the description of the working parts.

The invention consists in the improved wine-press and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a plan of my improved press. Fig. 2 is a section of the same, taken at line x of Fig. 1. Fig. 3 is a plan showing the body, tub, or vessel of the press open. Fig. 4 is a section taken through line y of Fig. 2, and Fig. 5 is a front elevation of the tub or vessel to contain the grapes being pressed. Fig. 6 is a detail plan of the nut or screw head detached.

In said drawings, a indicates the bed-plate, which may be supported on legs b or otherwise. Said bed may be channeled at its periphery, as at c, and provided with a spout d, by means of which the expressed juice may be collected and conducted to a suitable receptacle. At the center of said bed a the same is provided with a screw-stud e, and at one side of said bed is stationed a hinge-pin f, upon which latter is hinged a pair of frames or tub-sections semicircular in plan and comprising upper and lower straps g' and vertical staves or bars g^2 with openings between, through which the fluid may flow out from the compressed mass within the tub or vessel formed by said frame. Said frames are hinged together, preferably, by the straps being furnished with integral eyes to receive the hinge-pins, as indicated in Fig. 2. At the ends opposite the hinges the straps are furnished with fastening means, such as are shown in detail in Fig. 5, each comprising a latch h, adapted to lie normally in line with the strap across the meeting of its two sections and at the outer surface. Said latch is pivoted at one end to one section of the strap and at its other end has a hook-like projection h' to hook over a stud i on the other strap-section. Beyond the said projection h' the end of the latch forms a handle h^2, and preferably the two latches on the tub are pivoted in reverse position, as shown, to secure a better appearance and greater convenience. This arrangement enables one handle to be grasped and operated while the operator is pushing against one section of the frame and the other to be accessible while pushing the other section into place.

The screw-stud e projects centrally up through the tub or vessel described and is threaded at its upper end. If preferred, said screw-stud may be threaded for its entire length and its lower end screwed through the bed-plate a and secured by a lock-nut e' beneath. On the threaded upper end of said screw-stud works a pressing-head j, centrally perforated and threaded to screw on said stud. At its reduced lower end said head enters the socketed top of a foot k, loose on the screw-stud and having a flat under side adapted to engage cross-blocks l, arranged upon a follower or board m, lying against the grapes or other fruit in the tub or vessel. Said follower is made in halves or sections m' m' to permit its insertion into place, and each half has a ring or handle m^2.

The foot k is rotatably loose upon the reduced lower end of the head j, being held against longitudinal movement by screws n passing radially through the walls of the socket and entering shoes n', adapted to slide circumferentially in a groove j' of the head, as shown more particularly in Fig. 4. At its top the head j presents a stem j^3, over which is loosely slipped the transversely-perforated end of a lever socket or section p, and at the

bottom of said stem the head provides a flat horizontal flange j^2 for the lever-socket p to lie against. Said flange has in its upper surface a circular series of depressions or recesses q, each providing an abrupt shoulder at one end and a gradual incline at the other, whereby a series of ratchet-teeth are presented, which will be engaged by a pawl moving in one direction, but will permit slipping in the other direction. The pawl referred to consists of a pin r, dropped into a vertical opening r' therefor in the handle-socket and being automatically operated by its own weight. Preferably a similar inner series of ratchet-teeth q', but pointing in opposite directions, is formed, and a second vertical pawl-pin opening s' for a pawl-pin s, in alinement therewith, is provided. Either two pawl-pins may be furnished or the same pin may be transferable from one opening to the other.

One of the concentric series of ratchet-teeth, preferably the outer one, is used for turning the nut or screw head j to exert pressure upon the contents of the tub or container for the fruit, while the other oppositely-directed or inner series is brought into play when the nut or screw head is to be raised upon the threaded stud to relieve the pressure. Thus simply changing the pin s from one hole to the other will cause the oscillation of the lever or handle p to turn the nut in reverse direction and produce an opposite effect in the machine.

Into the outer end of the handle-socket p is adapted to be inserted a lever t, and by oscillating this lever when the pawl-pins have been properly adjusted the screw-head j is caused to ascend or descend on the screw-stud e. The foot k, however, in contact with the cross-bars l on the top of the follower m, is carried without rotation by the head j. Access to the fruit or pomace may be had at any time by slackening the screw, removing the blocks l and sectional follower m, if necessary, and opening apart the sections or halves of the tub or vessel.

Having thus described the invention, what I claim as new is—

1. In a press, the combination with a threaded stud, a nut or head screwing on said stud and having an upper horizontal surface provided with concentric series of ratchet-teeth, the teeth of one series being oppositely directed from those of the other, a lever or handle centrally pivoted on the said nut or head, and pawl means upon said lever to engage said ratchet-teeth.

2. In a press, the combination with a threaded stud e, a nut or head screwing on said stud and having an upper horizontal surface in which are formed concentric series of recesses constituting ratchet-teeth, the teeth of one series being oppositely directed from those of the other, a lever or handle centrally pivoted upon the said nut or head and having upright perforations back from its end adapted to register one with each series of recesses or ratchet-teeth, and a pawl-pin interchangeable from one perforation to another to engage either series of teeth.

3. In a press, the combination with a threaded stud, of a nut or head screwing on said stud and having at its top a stem surrounded by a horizontal flange provided with concentric oppositely-directed series of ratchet-recesses, a radial lever or handle loosely receiving said stem as a pivot and having sockets registering one with each series of recesses, and a pawl-pin adapted to fit in each socket and engage the nut or head.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of July, 1901.

LOUIS PEROTTI.

Witnesses:
CHARLES H. PELL,
C. B. PITNEY.