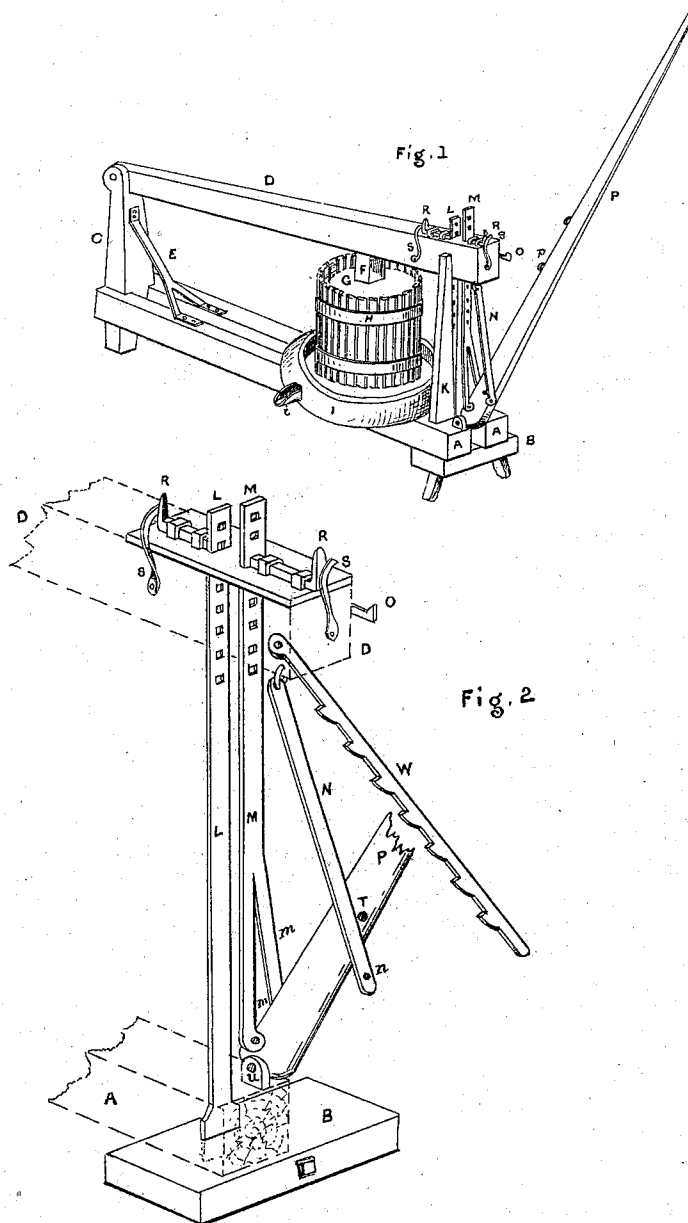


H. PETERS.
Lever Cider-Presses.

No. 138,280.

Patented April 29, 1873.



Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY PETERS, OF PENN TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA.

IMPROVEMENT IN LEVER CIDER-PRESSES.

Specification forming part of Letters Patent No. **138,280**, dated April 29, 1873; application filed March 17, 1873.

To all whom it may concern:

Be it known that I, HENRY PETERS, of Penn township, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Power-Presses, of which the following is a specification:

The nature of my invention relates to the alternate action of a pair of bolts locking into slotted bars, one of which is affixed to the bed of the press and the other to a lever, both passing through slots in the head of the pressing-beam, held between guide-posts, and having its fulcrum-pin in a post on the base bed or timbers, which also supports the material submitted to pressure in the ordinary manner.

The accompanying drawing illustrates the construction and arrangement of the press for making cider.

Figure 1 is a perspective view of the several parts in place; Fig. 2, an enlarged view of the bolts, slotted bars, and their connections.

A A shows two beams parallel to each other, somewhat narrowed from front to rear on the outer sides, at the extremities of which the fulcrum-post *c* is bolted. The beams in front rest upon a block, B, having feet attached thereto. There are two upright guide-posts, K, one on each beam, near the front end, between which the press-beam D is operated or held. The end of this beam D is held by a pivot-bolt in the fulcrum-post *c*. On the front end of this press-beam D there is an iron plate which has two central cross-slots and a pair of bolts, R, held and sliding in loops or keepers. Each bolt is acted upon by a spring, S, held in pivots, so as to engage with or disengage from said bolts. There are also corresponding slots in the beam beneath the said plate for the reception of the two perforated vertical bars L M. The bar L is firmly secured below to the cross-block B under the bed-beams A. There are two vertical bolts, U, near the inner edge of said base-beams, having eyes for a fulcrum-bolt which connects the lower end of the lever P. The slotted bar M is forked below and is connected on both sides of the lever P near its lower end. There is also a hinged bar, N, connected with the front end of the press-beam, which bar has a loop on its lower end, and can be attached to the lever P

and used so connected in the first action of the press-beam. After the bolts lock and hold the bars L M this bar N is detached from the lever P. When the pressure is completed the said bar N can be again connected in order to raise the press-beam by its action against the under side of the same. There is a spring-catch, *o*, which locks into a catch, *p*, on the lever P, to hold it in position while changing the pumice or pressed materials and refilling the vessels. The slotted vessel H, circular bed I, spout *i*, press-follower G, and vertical piston F present no special novelty, and are easily understood.

In order to hold the lever at any fixed point and prevent it from springing back when released, a rack-bar, W, with teeth, into which a catch, *w*, on the lever is made to enter, can be applied, as shown in the drawing, Fig. 2.

The operation of the bolts and slotted bars is simple. When the press-beam is raised and the vessel H filled, and the pressing-piston F adjusted under the press-beam, the lever is detached from the spring-catch *o*, the spring *s* turned to bear against the ends of the bolts R, and the lever depressed, causing the front bolt to enter the upper hole or slot in the bar M. This holds the lever. The hinged bar N is then disconnected from the lever, and a further depression of the lever will cause the next bolt to lock into the bar L, and thus alternately as the lever is raised and lowered successively until the pressure is completed. When the ends of the springs are removed from the bolts by being turned one side, the hinged bar N is attached to the lever and the pressing-beam is again raised up and ready to repeat the operation.

I claim as my invention and desire to secure by Letters Patent—

The perforated vertical bars L M, when severally connected with the base-block B and lever P, in combination with the bolts R, pivoted springs *s*, press-beam D, hinged bar N, all arranged and operating substantially in the manner and for the purpose specified.

HENRY PETERS.

Witnesses:

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