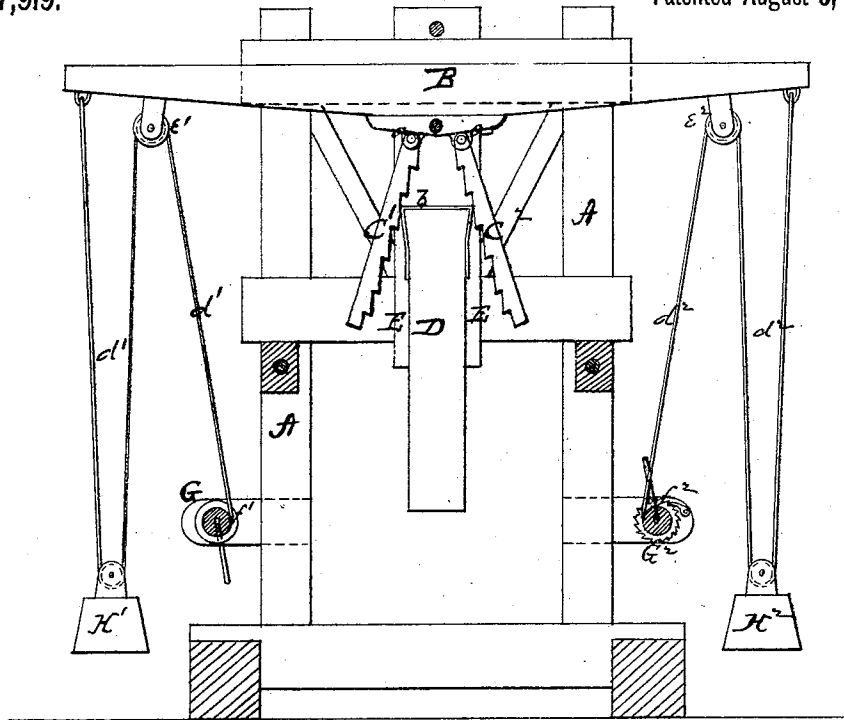


J. OUTLAND.

Press.

117,919.

Patented August 8, 1871.



Witnesses
Jno. A. Ellis.
J. White

Inventor
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Per,
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Att.

UNITED STATES PATENT OFFICE.

JOSIAH OUTLAND, OF BARNESVILLE, OHIO.

IMPROVEMENT IN LEVER-PRESSES.

Specification forming part of Letters Patent No. 117,919, dated August 8, 1871.

To all whom it may concern:

Be it known that I, JOSIAH OUTLAND, of Barnesville, in the county of Belmont and State of Ohio, have invented certain new and useful Improvements in Lever-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a press, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a side view of my press.

A represents the frame of my machine, in the upper part of which is pivoted the lever B. On each side of the pivot point is a metallic loop or journal, *a*, and from the same are suspended the ratchets *C*¹ *C*². In said ratchets works the head *b* of the wedge D, which is held in position by means of the guides E E. *G*¹ *G*² are windlasses, from which ropes *d*¹ *d*² pass upward around pulleys *e*¹ *e*², on the ends of the lever B. Said ropes then pass downward around pulleys attached to the weights *H*¹ *H*², and the ends of the rope are attached to the extreme ends of the lever B. *f*¹ *f*² are ratchets attached to the windlasses *G*¹ *G*².

The operation of my press is as follows: Disengage the ratchet *f*² attached to the windlass

*G*², and turn the crank of the windlass *G*¹ so as to elevate the weight *H*¹, then the lever B on the same side descends and the ratchet *C*¹ presses down on the head of the wedge D until the ratchet *C*² drops over the opposite side of the head *b*. Now, by detaching the ratchet *f*¹ and winding up the weight *H*² by the windlass *G*² the same process of forcing the wedge D down is continued until it passes down to the last notch in the ratchets *C*¹ *C*², thus furnishing—by means of the lever B, weights *H*¹ *H*², ratchets *C*¹ *C*², and wedge D, in combination with the windlasses *G*¹ *G*²—a simple yet powerful press, adapted to the wants of cheese-makers, cider-makers, tobaccoists, and others, at a comparatively insignificant cost.

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

1. The arrangement of the pivoted lever B, loops *a*, ratchets *C*¹ *C*², and wedge D provided with head *b*, all substantially as shown and described, and for the purposes herein set forth.

2. The combination of the lever B, ratchets *C*¹ *C*², wedge D, windlasses *G*¹ *G*², ropes *d*¹ *d*², and weights *H*¹ *H*², all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

JOSIAH OUTLAND.

Witnesses:

M. D. KING,
ABEL WILSON.