

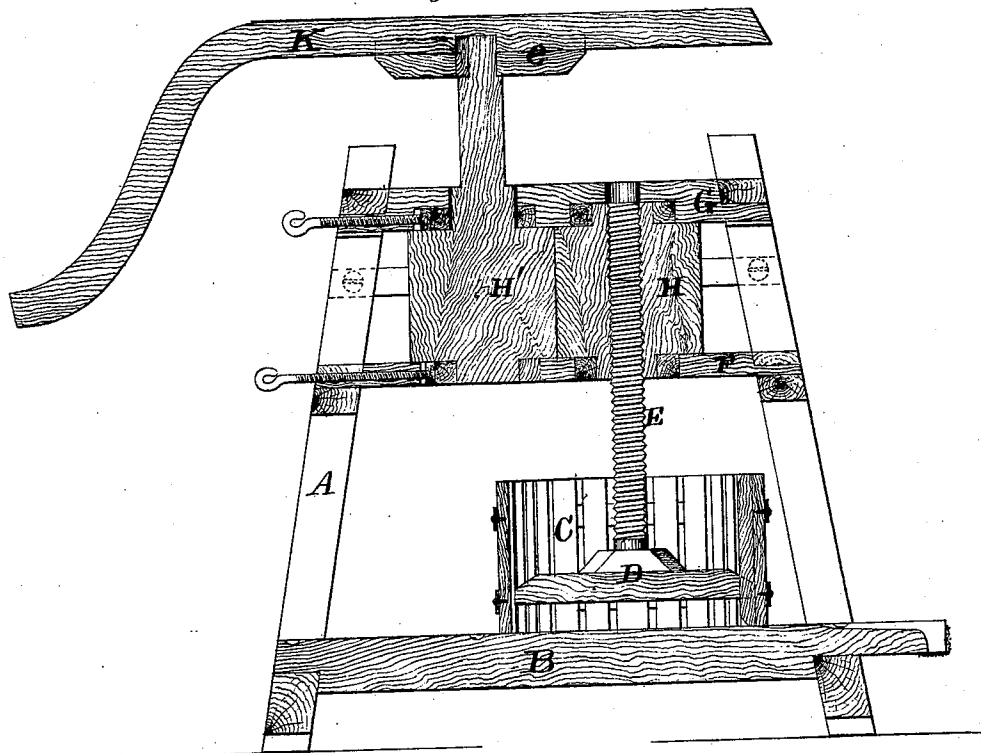
*L. R. Taylor,*

*Cider Press.*

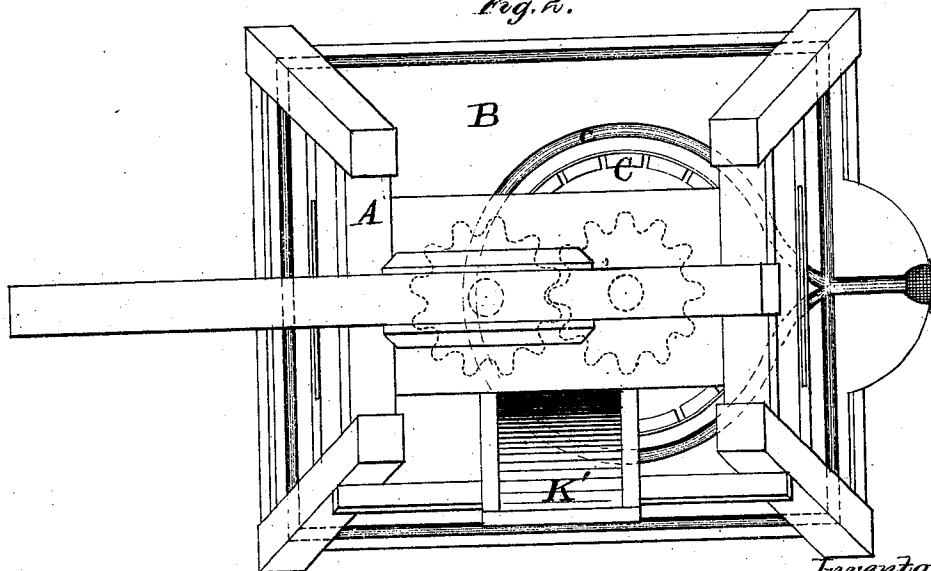
*No. 107,424.*

*Patented Sept. 13. 1870.*

*Fig. 1.*



*Fig. 2.*



*Witnesses*  
*Saml. D. Mast.*  
*Chas. Kenyon*

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# United States Patent Office.

LEWIS R. TAYLOR, OF CLARK TOWNSHIP, INDIANA.

Letters Patent No. 107,424, dated September 13, 1870.

## IMPROVEMENT IN CIDER-MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, LEWIS R. TAYLOR, of Clark township, in the county of Perry and State of Indiana, have invented a new and valuable Improvement in Cider-Mill; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a central vertical section of my invention.

Figure 2 is a top view of the same.

My invention relates to cider-mills, and consists in the construction and novel arrangement of the devices composing the same, whereby the rotation of the grinding-rollers raises the elevating-screw of the press, the same being depressed to squeeze the pomace by the reverse movement of the grinding-rollers.

The letter A of the drawing represents the framework of my cider-mill.

B designates the foundation-platform thereof, having a circular channel, *c*, cut in its upper surface, and leading to the discharge. In order to effectually prevent waste, another channel is formed about the platform, just within its edge.

C represents the cheese-box, placed on the platform B. It is formed of perpendicular staves or bars, strongly bound together. It is usually made without a bottom, and spaces are left between the adjacent edges of the bars.

D represents the press-head or follower, having a dovetail recess in its upper part, into which the dovetail end of the elevating-screw is made to fit, in such a manner that the follower may be slipped on and off, as required.

E is the elevating-screw, which elevates and depresses the follower. It passes up through the shelf F of the frame, and centrally through the grinding-roller H.

G represents the upper shelf at the top of the frame.

H H' designate the grinding-rollers. They are fluted perpendicularly, and have their bearings in the shelves F and G.

H' is the driving-roller. Its shaft is extended above

the shelf G, and is provided with a cross-head, *e*, arranged to receive the sweep K.

H is the elevating-roller, bored centrally and perpendicularly, and having its bore provided with a female screw-thread, fitted to the elevating-screw, and operating to elevate or depress the same as the roller is turned.

K' represents the hopper, attached to the side of the frame, and resting on the shelf F. It is fitted to the rollers H H', and its bottom slants downward and inward toward the rollers, in order that the apples may be properly fed thereto.

The operation of my press may be thus described:

The necessary power having been applied to the sweep or lever which rotates the roller H', the apples from the hopper pass between the rollers H H', and are ground, the pomace falling through the notch *v* in the shelf F into the cheese-box, which is placed underneath to receive it, being movable on the platform. The rotation of the rollers during the grinding-operation causes the elevating-screw to rise.

After the apples are ground, the cheese-box is moved on the platform to a point immediately under the roller H, the follower is slipped on the elevated screw E, and the movement of the sweeps reversed. The screw is thereby caused to descend, pressing the juice thoroughly out of the pomace.

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

1. In combination with the elevating-screw E, having removable follower, the cheese-box C, and the grinding-rollers H' and H, the latter being provided with a female screw-thread, and the parts all constructed and arranged to operate as specified.

2. In combination with the screw E of a cider-press, the fluted rollers H, perforated centrally, and provided with female screw-thread, as specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

LEWIS R. TAYLOR.

Witnesses:

J. B. BRADLEY,  
E. M. EVANS.