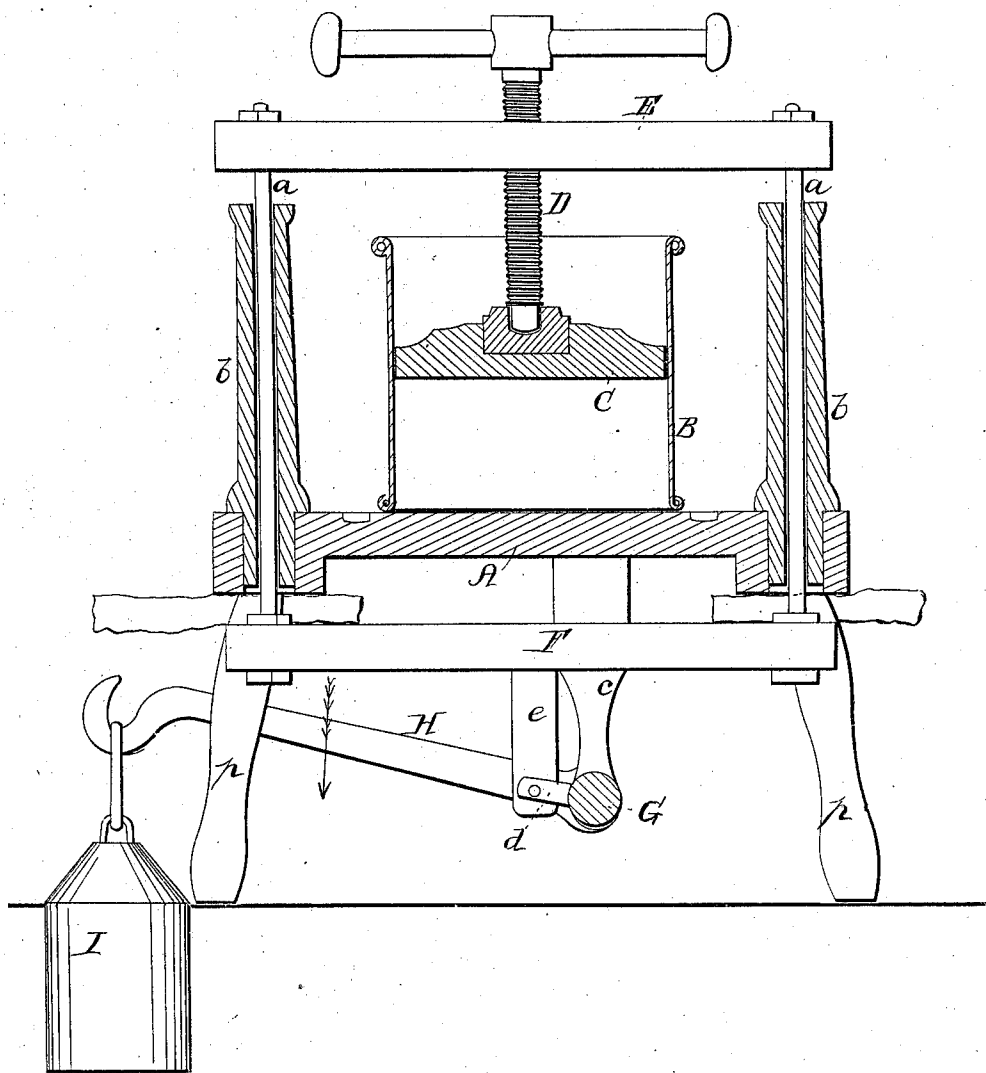


J. Erdle,
Cheese Press.

N^o 8,614.

Patented Sep. 1, 1868.



Witnesses;

J. A. Davis
W. C. Creelman

Inventor;

Jacob Erdle
By J. M. Murrill
att.

United States Patent Office.

JACOB ERDLER, OF SOUTH BRISTOL, NEW YORK.

Letters Patent No. 81,614, dated September 1, 1868.

IMPROVED CHEESE-PRESS.

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, JACOB ERDLER, of South Bristol, in the county of Ontario, and State of New York, have invented a certain new and useful Improvement in Cheese-Presses; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification; in which—

The figure represents a central vertical section of the machine.

My improvement consists of the combination of the weighted lever and the screw, whereby an even and uniform pressure is produced, and which are capable of adjustment without removing the pressure, the whole being arranged and operating substantially as hereinafter set forth.

In the accompanying drawing, A indicates the bed-plate, resting stationary on legs *p p*; B, the curb, and C the follower, which is pressed down by the combined action of screw D, that turns in a nut in cross-bar E, and the weighted lever, as will presently be described.

To the opposite ends of cross-bar E are connected perpendicular rods *a a*, that extend down through hollow standards, *b b*, and connect at their lower ends to cross-bar F. Extending down on opposite sides of the bed-plate A are fixed bearings, *c c*, in which rest the ends of the shaft G, the shaft being provided with a crank-bearing, *d*, that is jointed to lever *e* of cross-bar F. On one end of shaft G is secured a lever, H, having a weight, I, attached.

By turning down the screw D, the cross-bar E, not being stationary, will rise up on the threads of the screw, and consequently draw up the connecting parts, and elevate the lever H. Then, by means of the weighted lever, a steady and uniform pressure is produced, thereby drawing down upon the adjustable parts until the ends of cross-bar E rest on top of the hollow standards *b b*, and prevent further pressure, when the screw D is again turned down, and the operation repeated as before. This is all accomplished without at any time removing the pressure from the follower.

By simply inserting blocks (shown in red lines) between the cross-bar F and bed-plate A, the parts may be held stationary, and the press operated by the screw alone.

I am aware that presses have before been patented, in which a weighted lever has been used to produce a continuous pressure, without relieving the pressure in readjusting, but such devices are much more complicated and expensive than mine, and much more liable to get out of order. In my device the arrangement is very simple and cheap, and the operation performed with as little difficulty as in ordinary presses, where screws alone are used. By simply turning down on the screw, the adjustable parts are placed in position to produce a continuous pressure, and still allow it to settle without overcoming the strain.

In contradistinction to such arrangements as above indicated, I combine the two simplest and most effective mechanical powers, viz, the screw and weight, to readjust and continuously apply the pressure, this being accomplished simply by the square connection E F, *a a*.

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

The arrangement and combination of the screw D, cross-bars E F, rods *a a*, crank-shaft G, and weighted lever H, operating substantially as and for the purpose set forth.

In witness whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

JACOB ERDLER.

Witnesses:

R. F. OSGOOD,

W. J. CREELMAN.