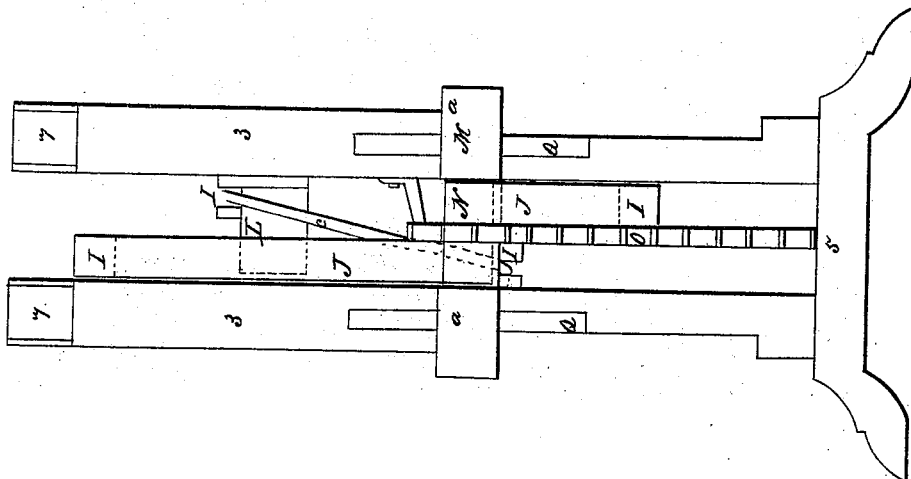
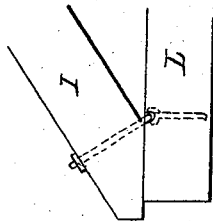
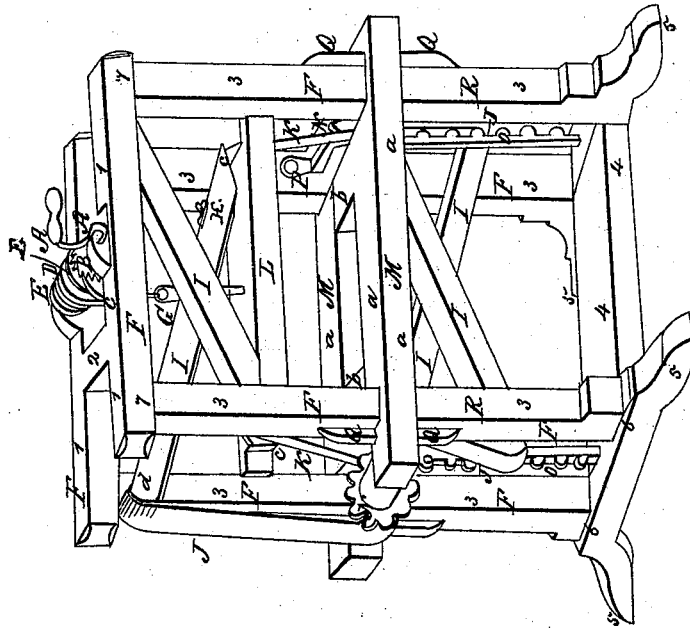


*J. Arnold,
Cheese Press.*

N^o 2,036.

Patented Apr. 2, 1841.



UNITED STATES PATENT OFFICE.

JOB ARNOLD, OF HARMONY, NEW YORK.

CHECK-PRESS.

Specification of Letters Patent No. 2,036, dated April 2, 1841.

To all whom it may concern:

Be it known that I, JOB ARNOLD, of Harmony, county of Chautauqua, and State of New York, have invented a new and useful Improvement in Machines for Pressing Cheese, Cloth, &c., and that the following is an exact description of the same, reference being had to the drawings making a part of the same.

Figure 1 represents a perspective view of the machine. Fig. 2 represents an end view. Fig. 3 represents the manner the bolts are arranged through the fulcrum of each lever.

Similar letters in the specification refer to similar letters in the drawing.

This machine is composed of the following parts: 1, The frame; 2, the press bottom ell; 3, the follower L; 4, the levers above the follower; 5, the levers beneath the press bottom; 6, the windlass; 7, the racks (O O); 8, the winding cylinders with pinioned wheels.

The frame of the machine is constructed in size proportionate to the article which is required to be pressed. This frame is composed of two blocks, called the feet (5, 5, Fig. 1). Upon these blocks four uprights are raised 3, 3, 3, 3, Fig. 1, of equal height. Two cap pieces 7, 7, connect the top of these uprights, and these cap pieces are connected together by 2 small girths 2, 2, Fig. 1. The blocks of the feet are connected together by a piece of wood of any required form, as shown 4, 4.

The press bottom M is made of timber or other suitable material and is composed of two beams (a, a) connected together by two girths (b, b), each one adjacent to each upright and under the follower. Each of the beams aforesaid extend beyond the uprights of the frame a sufficient distance for purposes herein after mentioned. These beams are notched on the side next the uprights, this notch to be a little wider than the width of the upright. A square piece of wood Q, is placed in this notch, extending above and below the press bottom, and fitting close to the upright, and sliding up and down with the press bottom aforesaid. Each of these square pieces (there being 4 of them, one for each upright) are made of boards say 1 inch thick. At either end of this press bottom is placed a winding cylinder with a pinioned wheel.

The follower L is a piece of timber or

other suitable material say from 4 to 6 inches in thickness, and a little wider than the width of the machine between the uprights. At each corner of this follower, a small rabbet is cut, to allow the said corners to slide freely up and down the corner of the uprights adjacent thereto. A channel or open mortise (say 3 inches wide, and 12 inches long) is cut in each end of the said follower, to allow the connecting rods K, K, to pass by. On the upper side of this follower are one set of levers, called

The levers above the followers II.—These levers are two in number, made of wood or other material, the fulcrum of each lever being placed on each corner of the follower in a diagonal direction from each other. The power end of one lever is opposite to that of the other. The levers move up and down in a vertical direction. A bolt is passed through each lever at the point called the fulcrum, and a nut secures it. The lower end of this bolt is bent around in a ring to enable it to work like a hinge. An other bolt or staple passes into the follower, connected with the ring of the bolt above in the fulcrum. The weight or purchase end of these levers are connected by iron rods (c c) with the same ends of the levers below the press bottom. The levers below the press bottom M, are similarly constructed as those before mentioned above the follower, with the exception only of their arrangement of the fulcrums being placed in a diagonal direction as before, but under the opposite corners of those on the follower. These levers have their fulcrums attached to the under side of the press bottom. At the power end of each of the levers, bands or straps passing from the cylinder N, are connected as at J.

The windlass E is a cylinder connected therewith is a ratchet wheel B and crank A, placed on the top of the frame, near about the center a rope (D) passes from the said cylinder and is attached to a bolt or pin G, fixed in the center of the follower before mentioned.

The racks (O O) are made of metal or any other material, at each end of the machine, and between the uprights, the feet of each of the said racks inserted into the blocks of the feet, and each of the said racks having their teeth placed outwardly, and up vertically, about one-half the height of the frame. A shank is bent at right angles,

and secured to one or the other uprights adjacent thereto.

The cylinders N N, with its pinioned wheels.—There are two of these, one placed 5 on each end of the press bottom, and resting between the two beams forming the said press bottom. The bands from the power or hand arms of the levers, are wound around these cylinders respectively, and a band on 10 each side of the pinioned wheel, which wheel is made of metal or other suitable material, and placed midway on the cylinder N, aforesaid, and it works in the racks O O before mentioned with the press bottom.

15 A windlass can be used below the press bottom, resting in a proper position, between the blocks of the feet aforesaid a rope can be passed from this windlass to a bolt passing downward from the center of 20 the press bottom. Mortises can be cut in this windlass, and levers can be inserted, and the windlass worked thereby and bring the press bottom down with it.

Operation.—I turn the crank at the top 25 of the machine which will raise the follower as high as may be necessary to receive upon

the press bottom whatever I may wish to press. When the article to be pressed is placed upon the press bottom, the hand that holds the windlass is raised and the follower 30 falls upon the thing to be pressed, and the weight of the press bottom and follower, &c., connected with it, bearing upon the band ends of the lever above the follower, and below the press bottom through the 35 medium of the straps attached to the ends of the levers and connected with the pinioned cylinders performs the operation of pressing.

What I claim as my improvement and 40 wish to secure by Letters Patent is—

The combining of two sets of levers, one set being arranged above the follower, and the other below the movable bed or press bottom with the aforesaid follower and 45 movable bed and said levers being connected and operated as herein set forth.

JOB ARNOLD.

Witnesses:

ASAHIEL CLARK,
ABNER LEWIS.