

ACUR JUDSON.

Linseed Oil Press.

117641

PATENTED AUG 1 1871

Fig. 1.

Fig. 2.

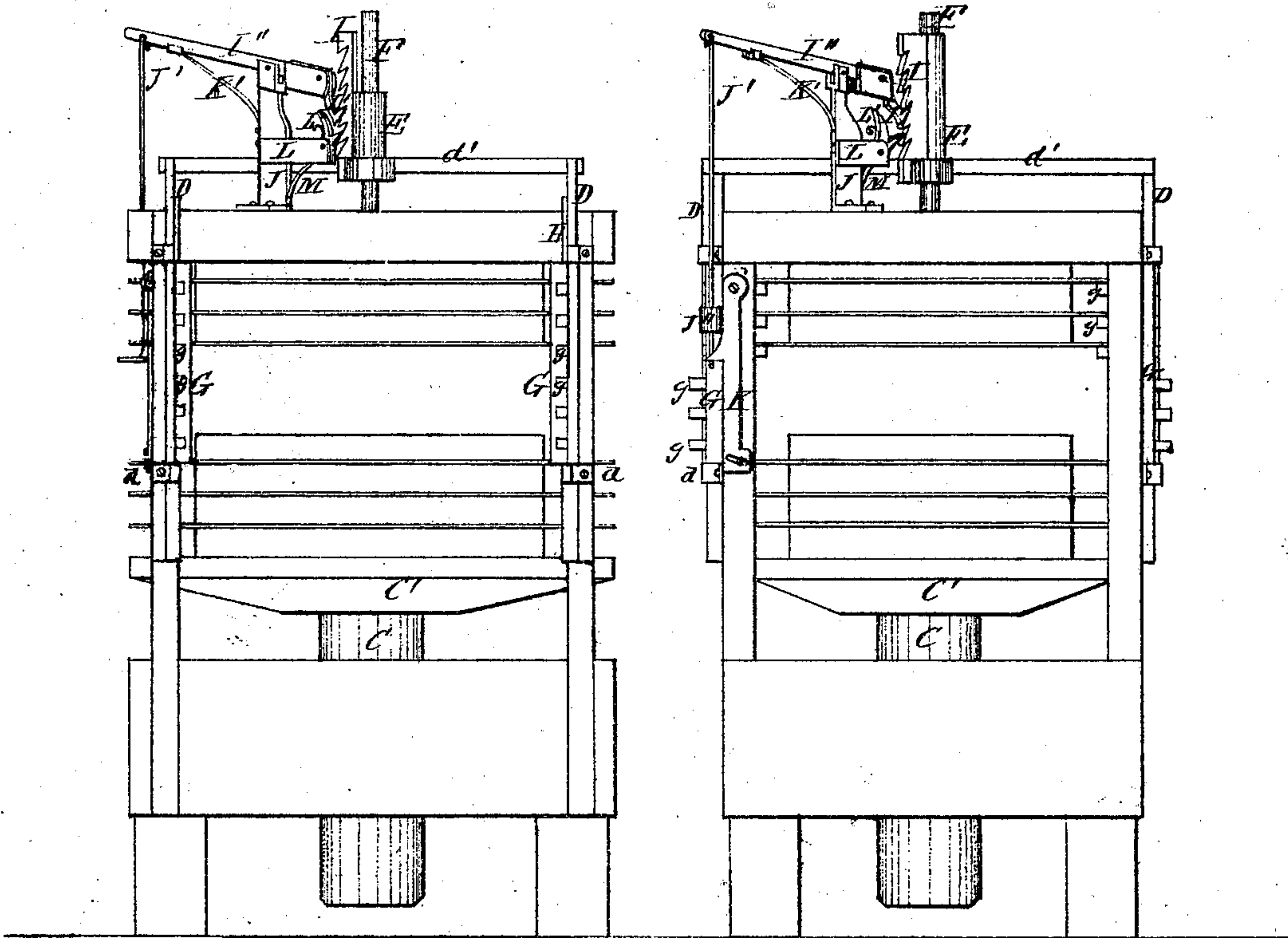
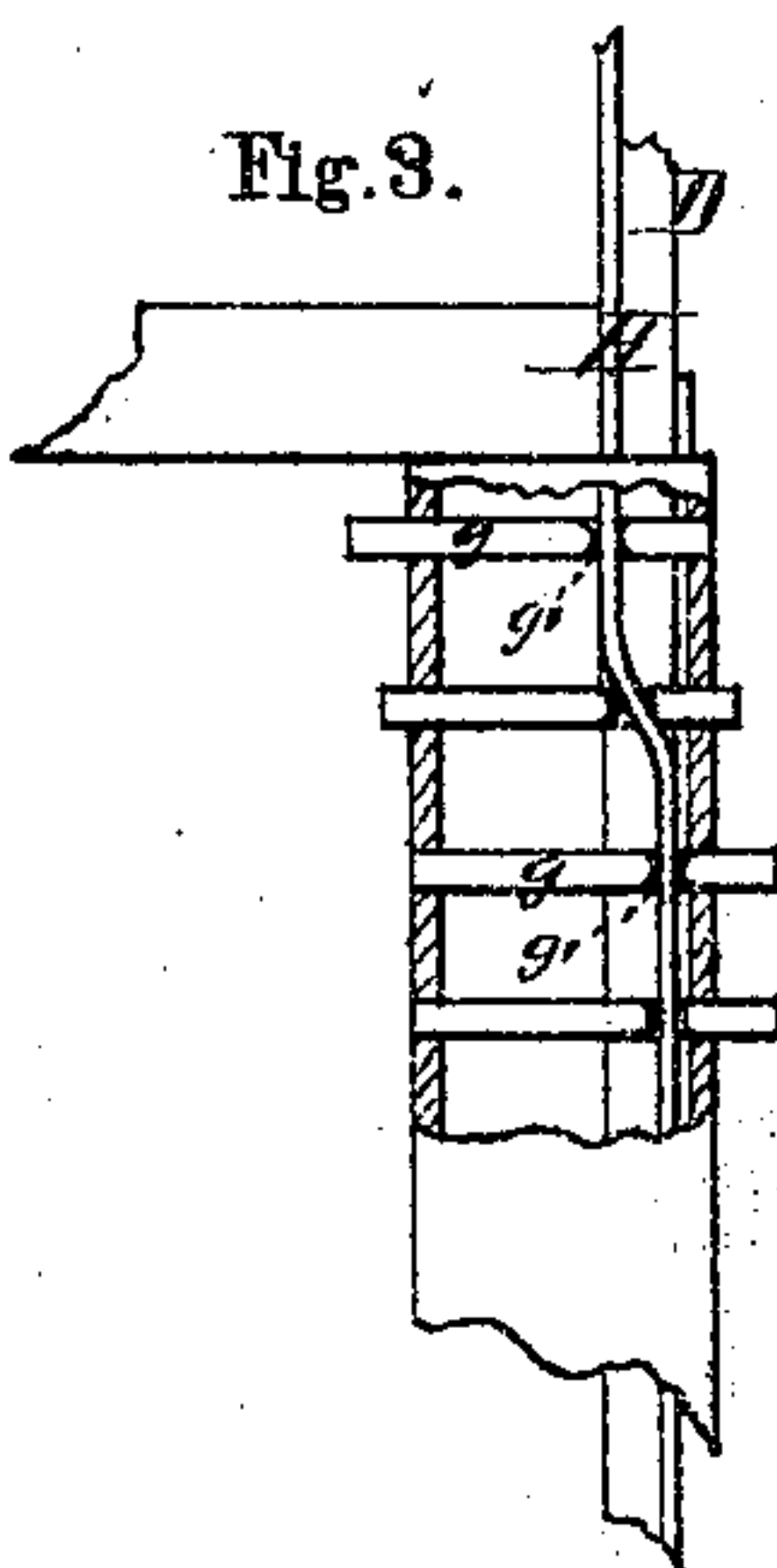


Fig. 3.



Witnesses.

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E. B. Curtis

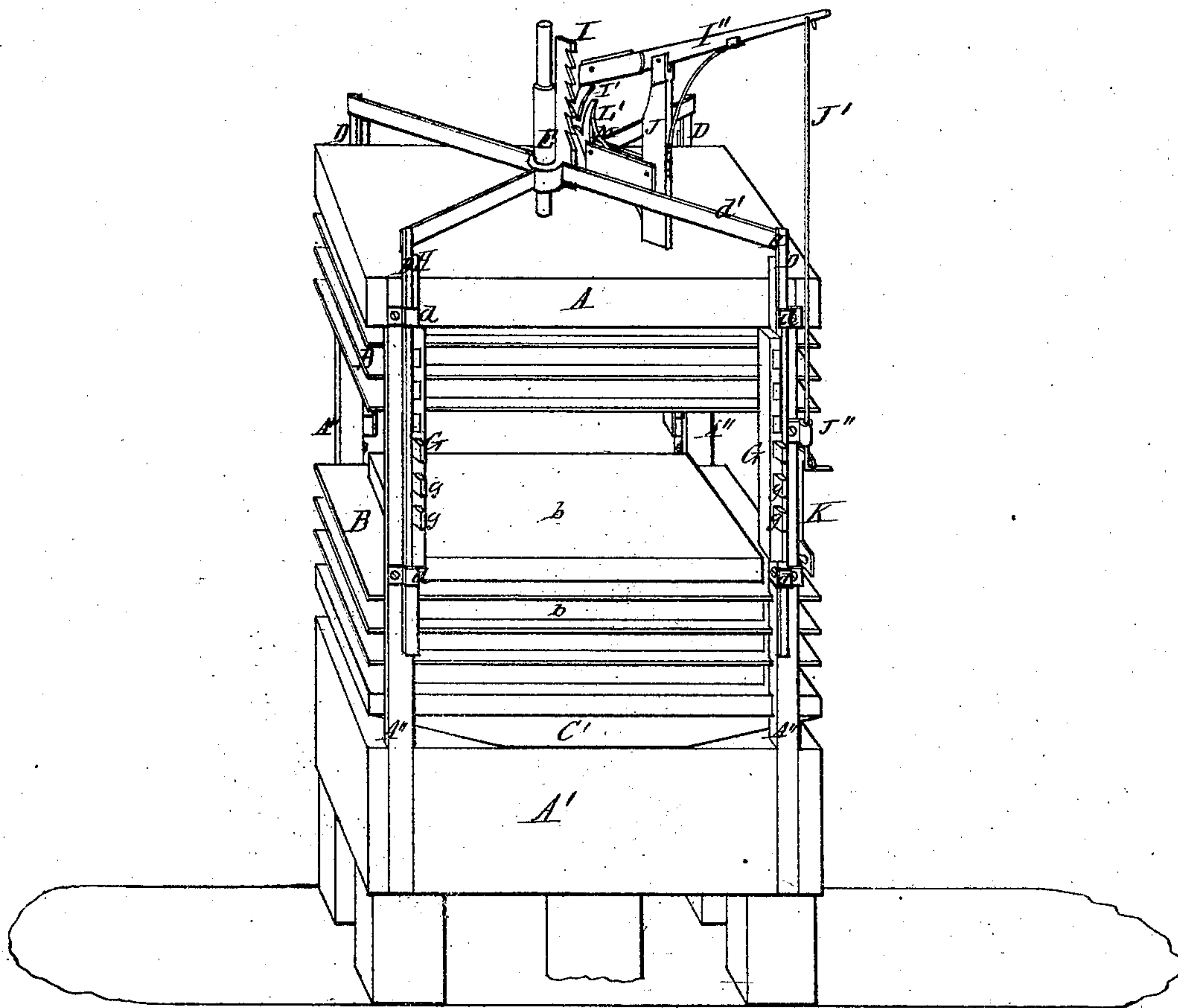
Inventor.

Acure Judson
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Fig. 4.



Witnesses.

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Inventar.

Agnes Hudson
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UNITED STATES PATENT OFFICE.

AGUR JUDSON, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN OIL-PRESSES.

Specification forming part of Letters Patent No. 117,641, dated August 1, 1871.

To all whom it may concern:

Be it known that I, AGUR JUDSON, of Newark, in the county of Essex and State of New Jersey, have invented a new and valuable Improvement in Flaxseed-Oil Presses; 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 side elevation of my invention. Fig. 2 is a similar view of opposite side. Fig. 3 is a detached sectional view of part of my invention. Fig. 4 is a perspective view.

This invention has relation to an improvement in oil-cake presses; and the novelty consists in the construction and novel arrangement of devices hereinafter described, by means of which the plates holding the pressed cakes are allowed to fall one by one in a pile for the purpose of getting more plates and cakes in a press of given capacity. Also, (the plate and cake being in close contact,) to retain the heat previously given to the meal until the same shall have been pressed.

In the accompanying drawing illustrating this invention, A represents the top, A' the base, and A'' the corner-posts of an upright rectangular press-frame of sufficient capacity to hold a number of horizontally-arranged plates, B, between which are placed the cakes, indicated in the drawing by *b*. C designates a vertically-working follower, through the medium of which the oil-cakes are elevated to their proper position and pressed between the head C' of the follower and the top of the press-frame. A slight notch is cut at each corner of the pans and follower-head, fitting them to the square corner-posts A'', as shown clearly in Fig. 4. D indicates four vertical bars arranged at the four corner-posts of the press-frame, and designed to slide up and down within guide-cleats *d*. The upper ends of these bars are secured to radial arms *d'*, the inner ends of which are attached to a collar, E, which slides vertically on the post F rising from the top of the press-frame. G represents boxes secured to the inner sides of the posts A'', and provided each with a number of horizontally-sliding bolts, *g*, formed with flaring

or double-beveled slots or recesses *g'*, through which runs the bent flange H projecting from the sides of the bars D. Each bolt is thrown forward or withdrawn by the bent part of said flange passing through the slot according as the bar D is raised or lowered. Fig. 3 clearly illustrates their mode of operation. The object of these bolts is to hold up the plates after the follower has been lowered and to allow each plate and cake to be separately dropped from its position—the lowest plate first, then the next, and so on. The ends of the bolts project under and support the four corners of each pan, and by simultaneously pressing the four connected bars D down each set of bolts is in order drawn back and the plates released. I designates a beveled toothed rack secured to the sliding collar E and operated upon by a pawl, I', hinged or pivoted to the end of a lever, I'', which is fulcrumed to the upper end of a standard, J, bolted to the top of the press-frame. This lever is operated by a vertical rod, J', which runs through an eye, J'', attached to any one of the posts A'', and has its lower end bent horizontally to form a hand-piece and also a purchase for the pivoted catch K. K' denotes a spring, which tends to keep the outer end of the lever I'' elevated, and, consequently, the pawl I' out of contact with the rack I, it being thereby lowered. The end of the pawl is brought under each successive tooth of the rack by the alternate elevation and depression of the pawl I', operated through the medium of the rod J' and spring K'. L designates a bracket projecting from the standard J toward the rack I, and holding a pivoted upright pawl or dog, L', having a double end, the formation of which makes an angular recess, into which the end of the pawl I' falls whenever the same is released. A spring, M, tends to press the dog L' into contact with the rack, so that it may support the same while the pawl I' is being lowered from one tooth to another. The force of the spring K' is sufficient to overcome that of the spring M, and consequently the pawl I', when it falls on the pawl L', throws the latter away from the rack, allowing it and the rods D to fall, supposing them to have been previously raised. The lower halves of the flanges H are of such a nature as to keep the bolts withdrawn, and when the bars D are elevated to their full extent all the bolts are out and the plates may

be raised to their proper positions. The bars D may be lowered when the cakes are pressed and the bolts thrown under the corners of the plates for the purpose of supporting them when the follower is withdrawn. From this position each plate with its cake is dropped in order by raising the rack I in the manner already described. The catch K, before referred to, is designed for the purpose of keeping the pawl I' in gear with the rack I, so as to retain said rack in an elevated position when desired. It will be observed that the pawl I' is of an elbow-form, the rear arm acting as a weight to throw the beveled or hook end toward the rack. The object of the pressure exerted by the follower is to press the oil from the cake and give it a proper form.

I claim as my invention—

1. The arrangement of the bolts *g*, bent flanges H, arms *d'*, collar E, and rod F, applied to an oil-press, and constructed substantially as and for the purpose specified.

2. The arrangement of the rack I, weighted pawl I', lever I'', spring K', and rod J' with the bolts *g* and plates B, when constructed substantially as and for the purpose specified.

3. The notched or double-ended dog I' and spring M, arranged as specified, in combination with the rack I and pawl I', as and for the purpose described.

4. The arrangement and application of the latch K, in combination with the rod J', pawl I', rake I, bolts *g*, and plates B, substantially as set forth.

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

AGUR JUDSON.

Witnesses:

D. D. KANE,
F. B. CURTIS.