G. W. D. Culp,

Cider Press.

No. 4,852. Patented Nov. 14, 1846.

Fig. 2.

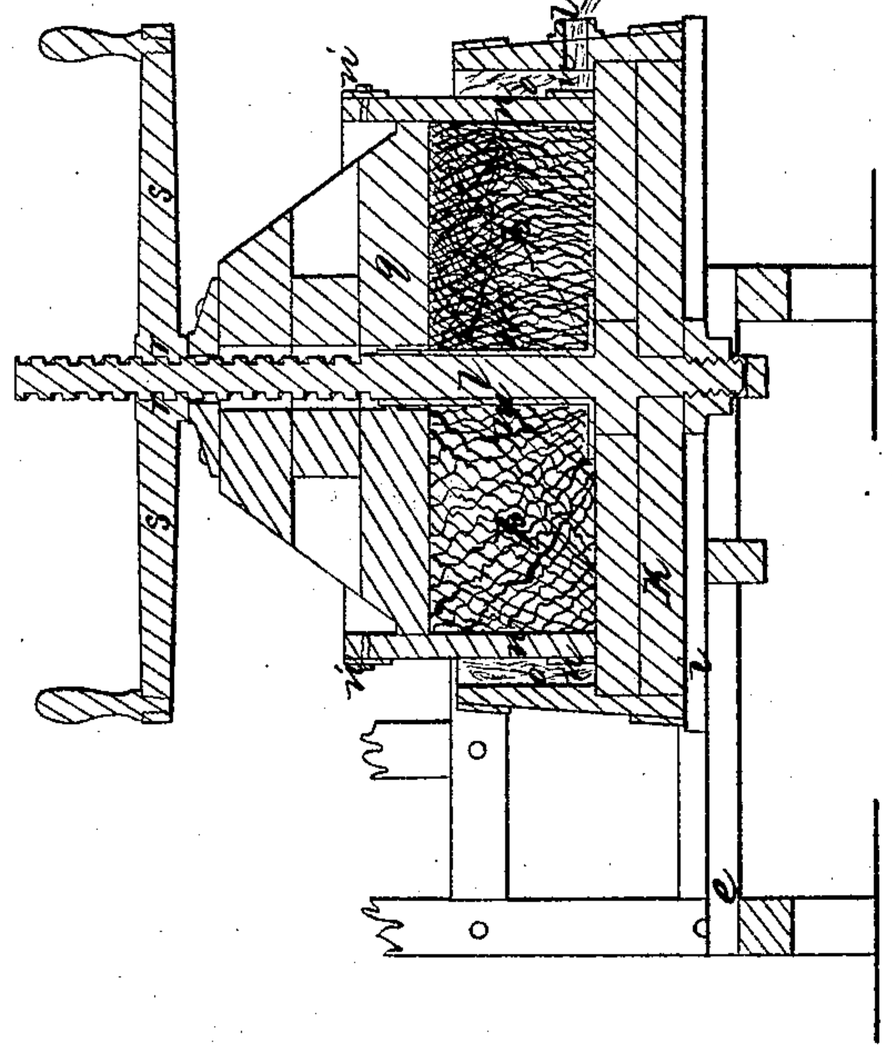
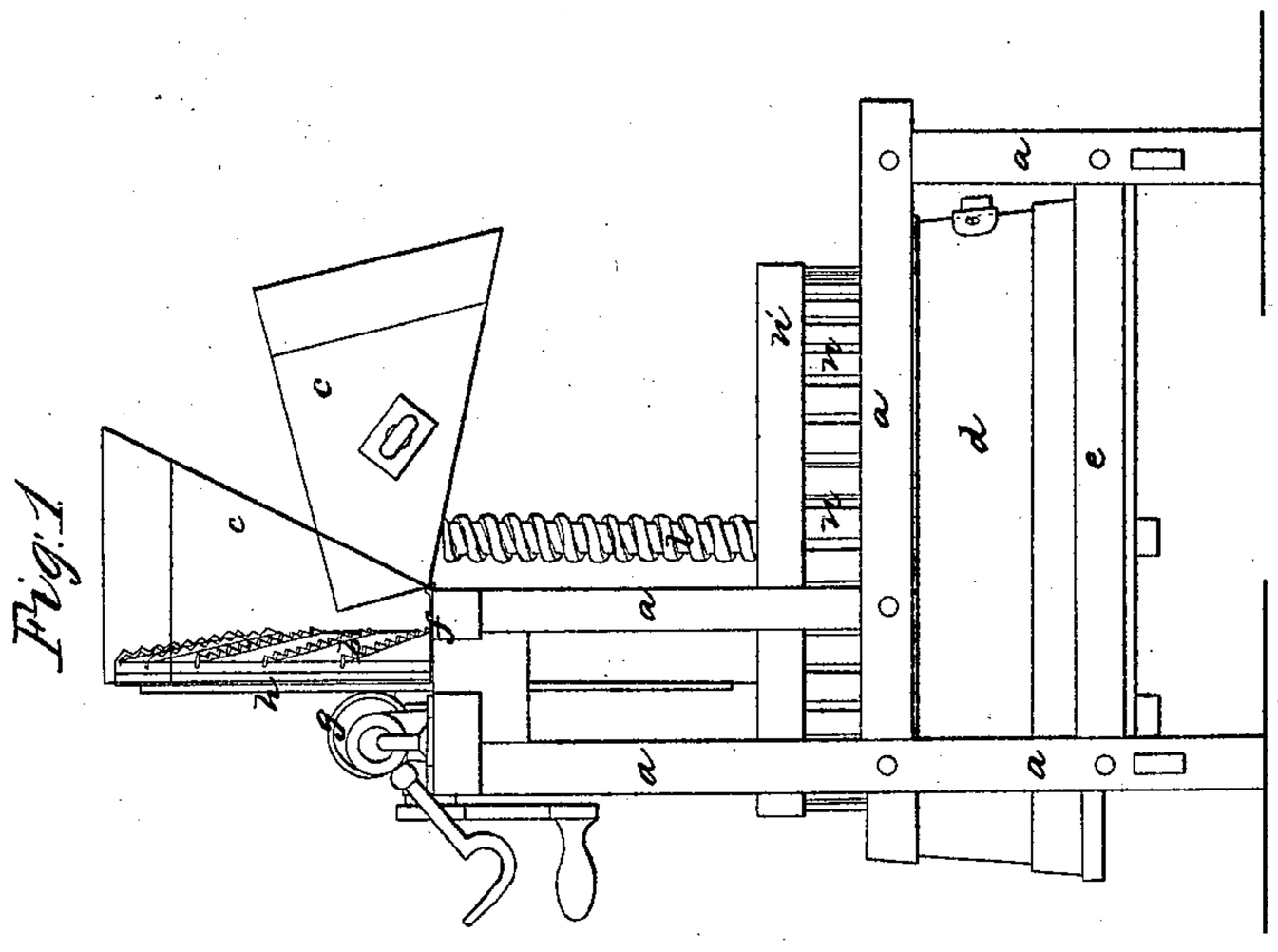


Fig. 1.



UNITED STATES PATENT OFFICE.

G. W. D. CULP, OF ALLENVILLE, INDIANA.

CIDER-MILL.

Specification of Letters Patent No. 4,852, dated November 14, 1846.

To all whom it may concern:

Be it known that I, G. W. D. CULP, of Allenville, in the county of Switzerland and State of Indiana, have invented new and useful Improvements in Grinding Apples and Pressing Out Cider, and that the following is a full, clear, and exact description of the principle or character which distinguishes them from all other things before known and of the manner of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation of the mill with the pressing tub under it. Fig. 2 is a section through the press which is drawn out ready for pressing.

The same letters indicate like parts in all the figures.

The nature of my invention consists in constructing a grinding apparatus and combining therewith a press so that the pumice can be received directly from the mill into the press without handling or building up a "cheese" and thence run out and pressed, by which a more perfect result is produced and with less labor than in the ordinary way. The difficulty in combining the press with the mill has heretofore been to arrange the frame thereof so as it may be out of the way. By my construction the ordinary frame of the press is dispensed with.

In the accompanying drawings (*a*, *a*) is the frame on which the grinding wheel (*b*) and hopper (*c*) are supported in proper position, and on the lower part of which the press tub (*d*) slides on ways (*e*). The grinding wheel is made with a conical face (*b*) armed with radial rows of teeth which grind the apples against a stationary breast at (*f*), the apples being put into a hopper (*c*) shown turned down in Fig. 1, and by red lines in plan in the same figure. Directly behind the breast (*f*) there is a friction roller (*g*) which bears against a rib (*h*) on the wheel and relieves it by counteracting the pressure caused by grinding.

The pumice descends through a common spout surrounding the wheel into the tub (*d*) below. The tub (*d*) in which the pumice is pressed is shown in section in Fig. 2, in which figure it is represented as drawn out from the mill. This tub is placed on slides (*i*) that move on ways (*e*); below the bottom of the tub there is a stout plank or beam (*k*) and to this the lower end of a screw (*l*) is securely fastened as shown in the figure; this screw passes up through the center of the tub and is inclosed in a tube (*m*) attached to the tub that extends up as high as the sides. Within the tub a circular grating (*n*) is placed somewhat smaller than the tub and concentric therewith leaving a space (*o*) between them all around. This grating is firmly bound by hooks (*n'*) and receives the pumice (*p*) within it all around the screw. A follower (*q*) is then placed on over the screw that exactly fits into the grating and a nut (*r*) having two levers (*s*) affixed thereto is screwed on over all; by turning this nut pressure is produced on the follower and the cider is thus expressed from the pumice and runs off from the tub through the spout (*t*); by this arrangement the pumice is not touched after the apples are ground, and an important saving of labor is thus effected.

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

Constructing a cider press, as herein described, having a tub with a grated curb within it and a screw through its center as set forth so as to dispense with a frame and allow it to be combined with a mill for grinding the apples so that the pumice need not be handled.

Signed this twenty-eighth day of August A. D. 1846.

GEO. W. D. CULP.

Witnesses:

J. J. GREENOUGH,

A. P. BROWNE.