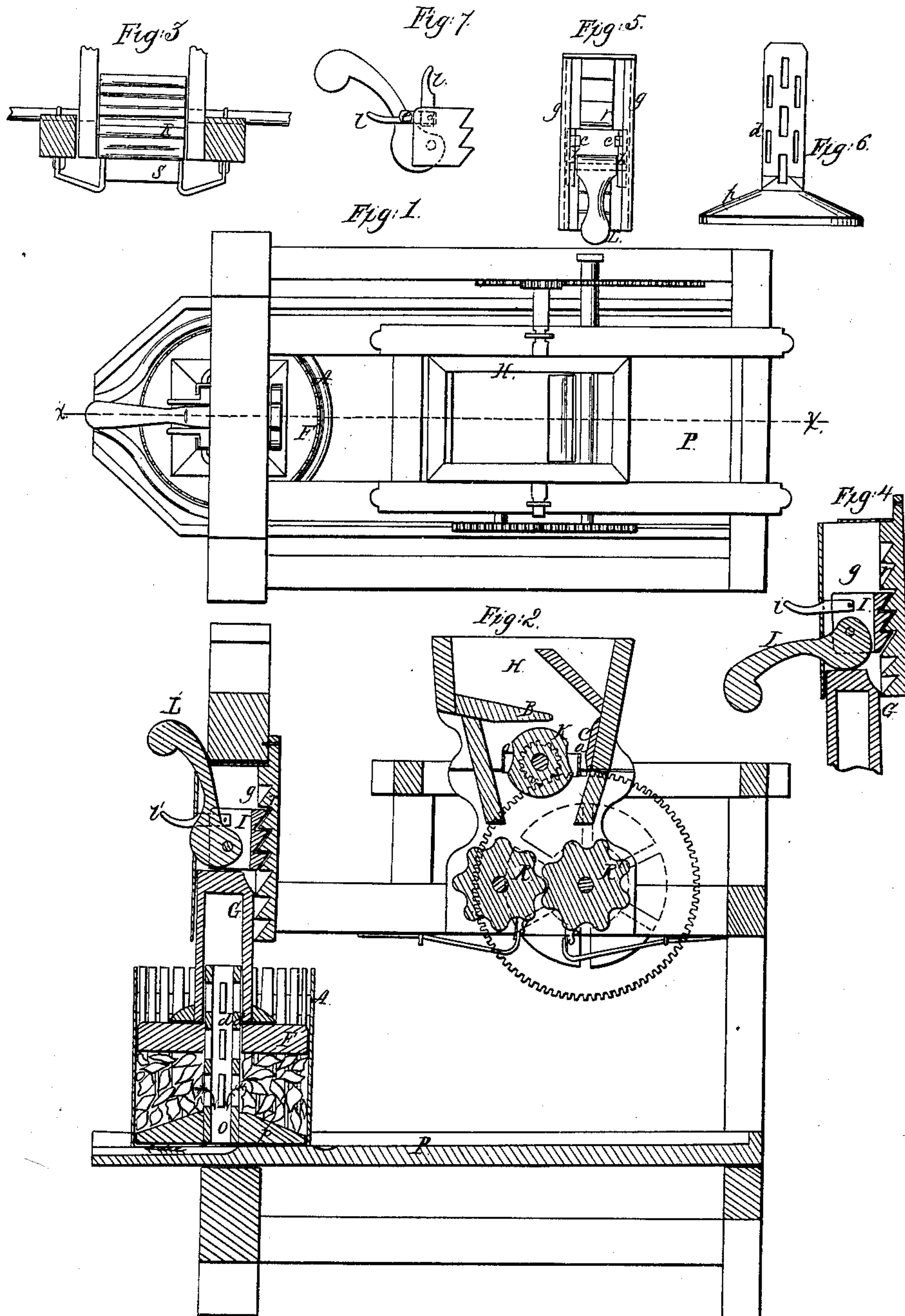


H. D. Sheidley,
Cider Press.

N^o 18,993.

Patented Dec. 29, 1857.



UNITED STATES PATENT OFFICE.

H. O. SHEIDLEY, OF REPUBLIC, OHIO.

CIDER-MILL.

Specification of Letters Patent No. 18,993, dated December 29, 1857.

To all whom it may concern:

Be it known that I, H. O. SHEIDLEY, of Republic, in the county of Seneca and State of Ohio, have invented a new and useful Improvement in Cider-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, forming part of this specification, in which—

Figure 1 is a top view of the machine. Fig. 2 is a vertical section on line *x x*. Fig. 3 is a face view of the pressing rollers, showing scrapers. Fig. 4 is a detached view showing ratchet block and eccentric. Fig. 5 is a face view of the same parts. Fig. 6 is an elevation of curb bottom with discharge pipe. Fig. 7 is a view of ratchet block and eccentric, showing the secondary eccentric levers for securing the ratchet block in position.

Similar characters of reference in the several figures denote the same part.

The nature of my invention consists in a combination of devices hereinafter to be described for effecting the pressing of the pomace by lever power, and giving the juice a center discharge additional to that which takes place through the curb.

The details of construction and operation will readily be understood from the following description.

In the drawing H is the hopper, with a chute board B to throw the apples against the cutting block C, in front of the knife cylinder K. This cylinder has two knives *a* on opposite sides thereof, the cylinder being cut away behind the knives to permit the passage of the slices. The apples are carried by the chute board to the space between the cutting block and cylinder, and as they are sliced by the knives *a a* their places are supplied by apples from above. The slices fall between the rollers R R', where they are pressed and the pomace discharged into the curb below. The scrapers S S clean the rollers R R'.

The curb A is without a bottom, but has within it and resting on the platform P, a beveled plate *p*, with an opening *o* through its center and a stem *d* arising therefrom, and occupying the middle of the curb. This stem is hollow, and has openings leading from outside to inside, as shown in Figs. 2

and 6. Within the curb is a follower F which rests upon the pomace; and is forced down by the descent of the cap piece G, passing over the stem *d*.

The cap piece G is moved downward by the action of the cam lever L, hung in a movable ratchet piece I. This ratchet piece, moves downward between the cheek pieces *g g*, and is held in any desired position to resist upward pressure by the ratchet *r*. The levers *l l'* having the small cams *c c* upon them force the ratchet piece I back into the ratchet *r*, when said piece is to be held firm. When these levers are in the position shown by *l'* in Fig. 7, the ratchet piece can be moved forward and allowed to drop. This dropping down of the ratchet piece I is required after every movement of the cam lever to the position shown in Fig. 4. The said cam lever being lifted as shown in Fig. 2, and the ratchet piece allowed to drop down a notch previous to the next depression of the cam lever L.

The advantages of this machine consist in the simplicity and cheapness of the pressing combination, and in the thorough removal of moisture from the pomace which the spindle or stem *d* admits of. This last advantage will be fully appreciated from the following explanation:—Where all the moisture has to be forced through the curb, it frequently happens that the pomace hardens around the surface of the curb and by resisting the follower, prevents it pressing fully upon the moist pomace in the center of the curb. By discharging from curb and stem this disadvantage is obviated.

I claim—

1. The hollow stem *d* in communication with the interior of the curb, in combination with the follower and curb substantially as and for the purposes set forth.

2. I also claim the combination of the cap piece G, ratchet piece I, ratchet *r* with its checks *g g*, cam lever L, and secondary levers *l l'* arranged and operating substantially as set forth.

In testimony whereof, I have hereunto signed my name before two subscribing witnesses.

H. O. SHEIDLEY.

Witnesses:

GEO. PATTEN,
JAS. D. CLARY.