

No. 755,126.

PATENTED MAR. 22, 1904.

F. FÜRST.  
FRUIT PRESS.

APPLICATION FILED AUG. 28, 1903.

NO MODEL.

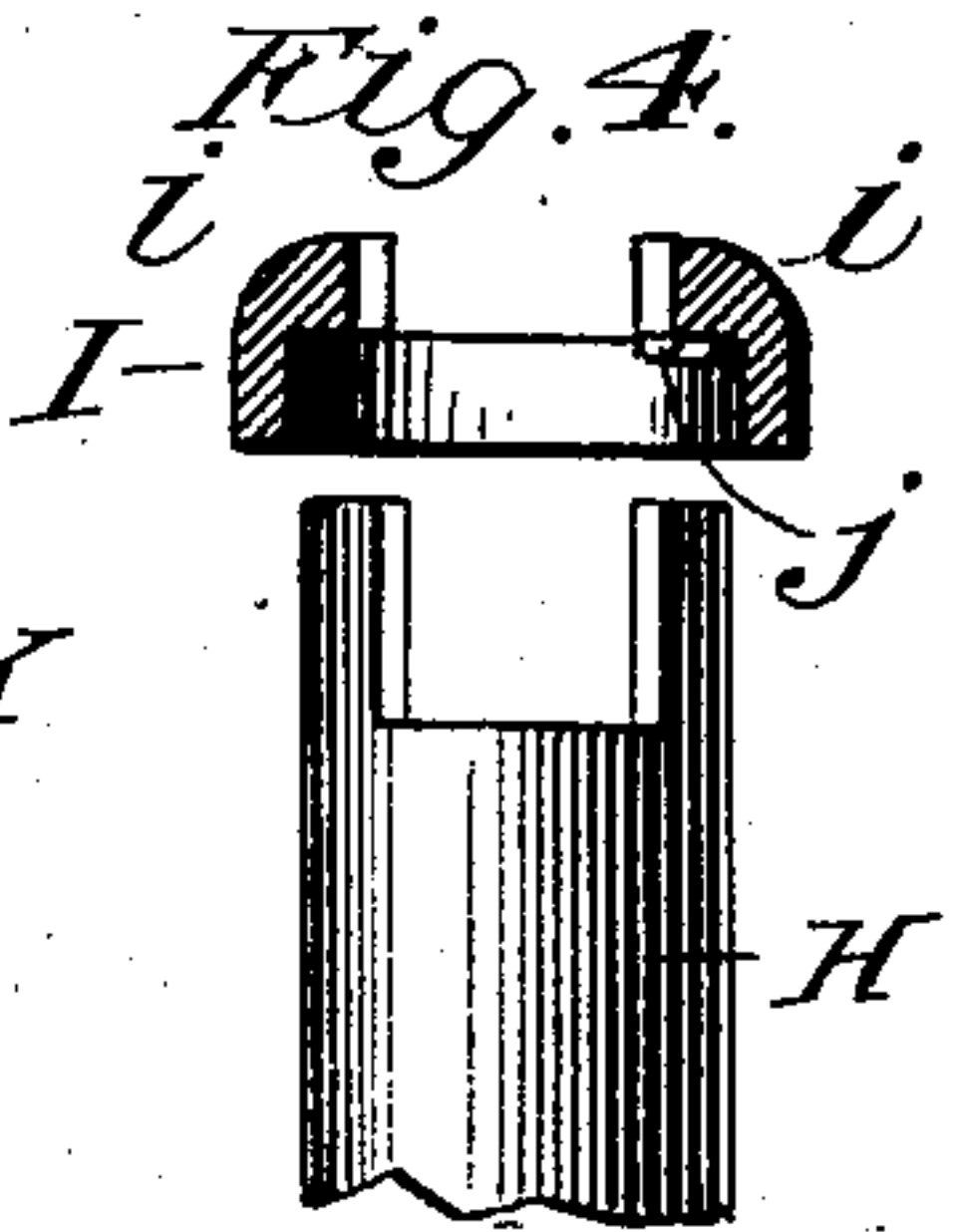
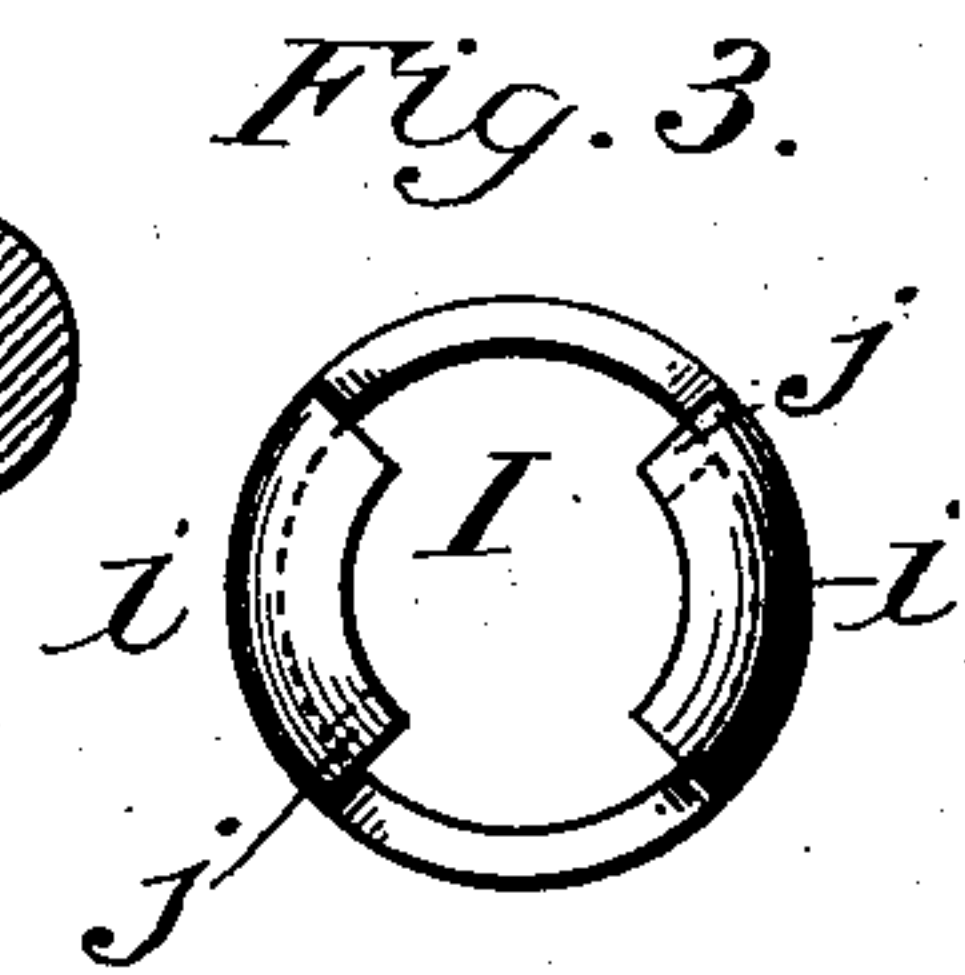
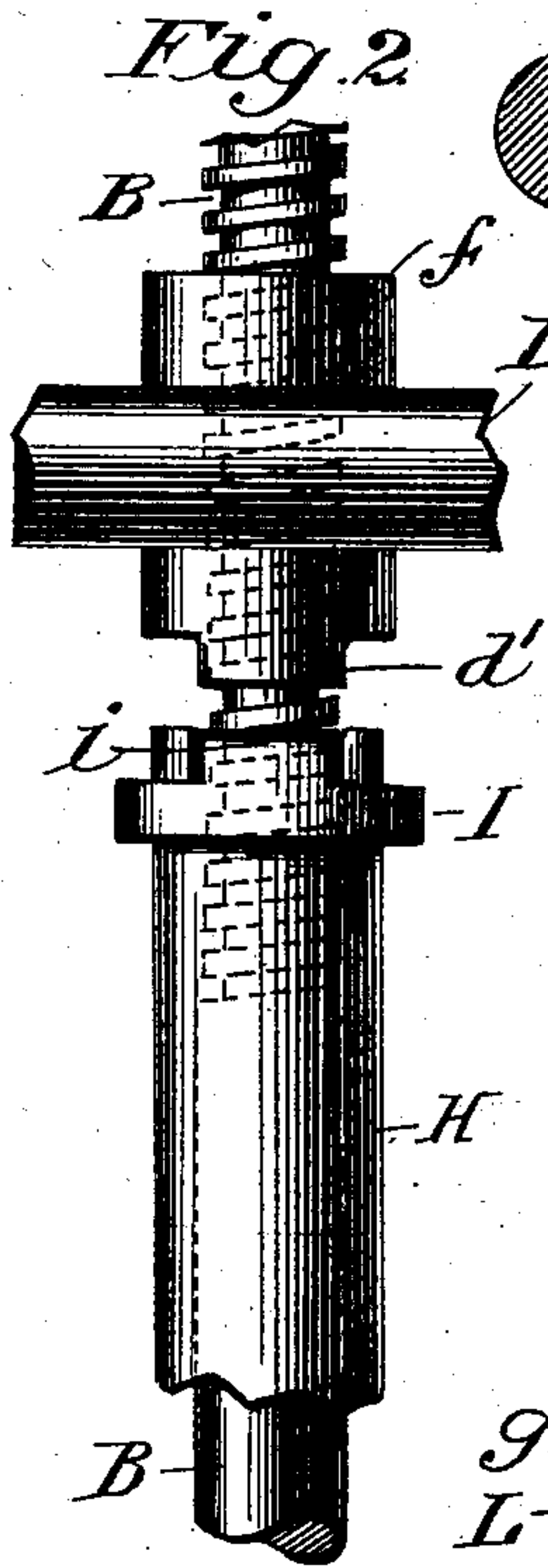
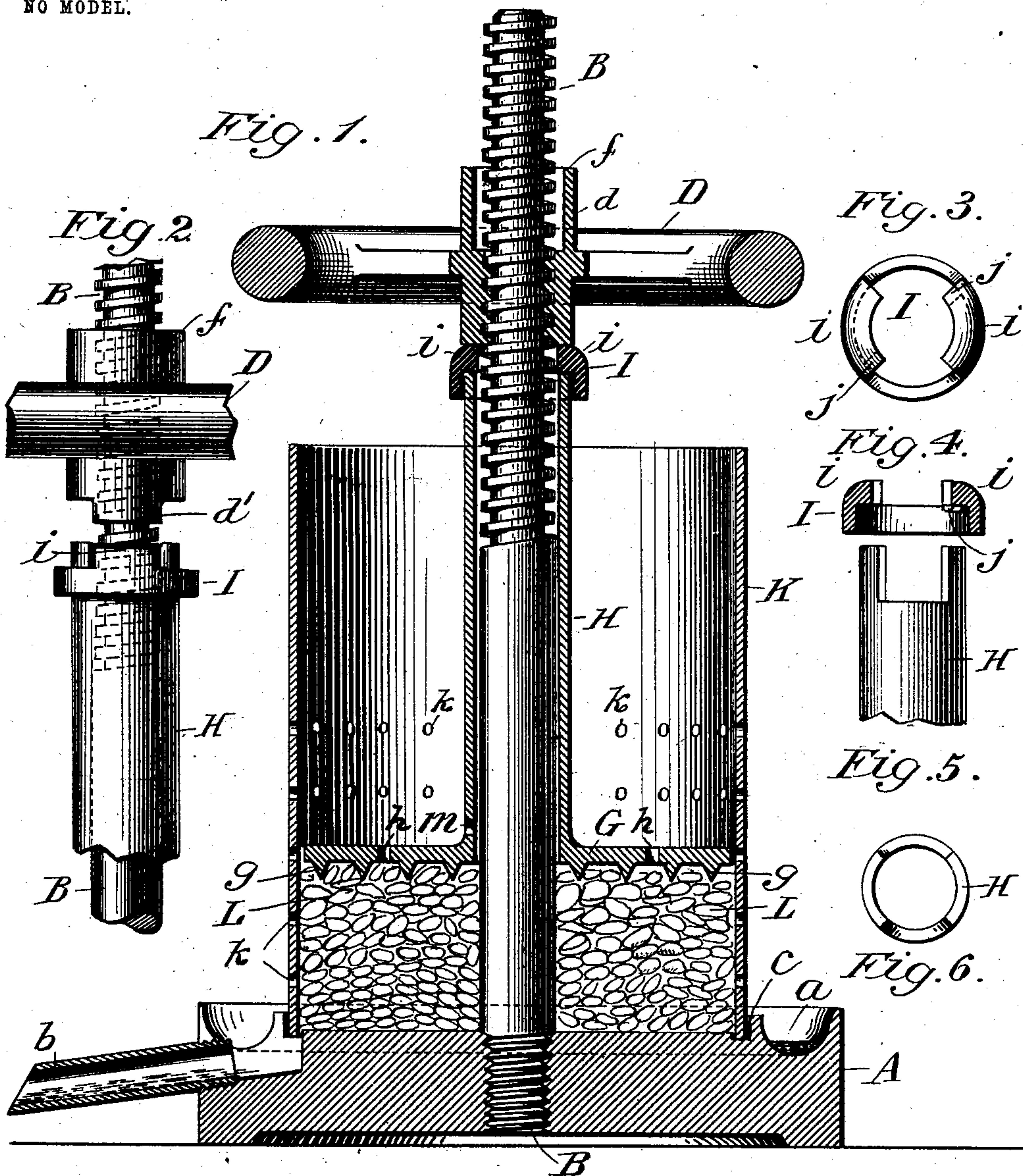
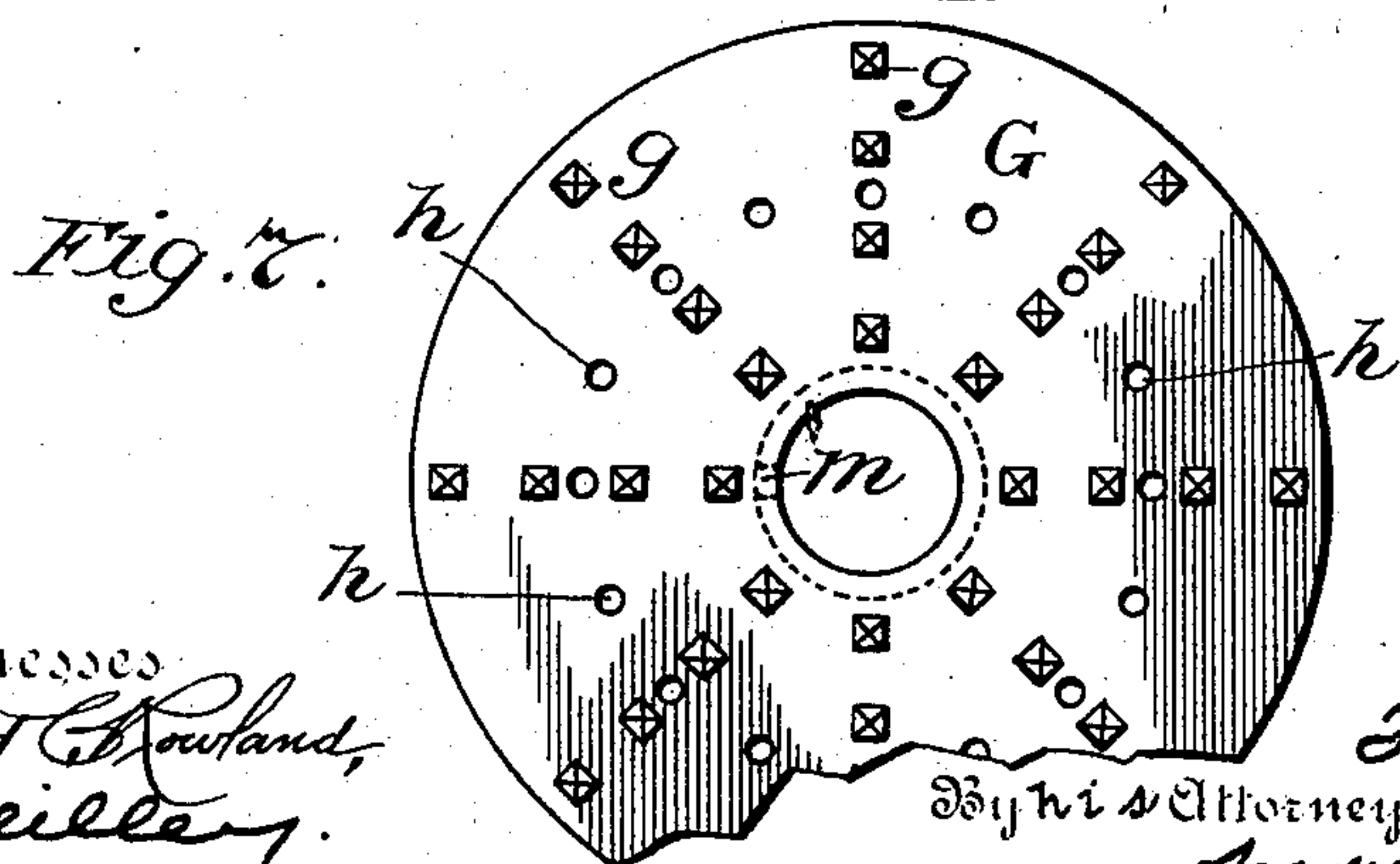
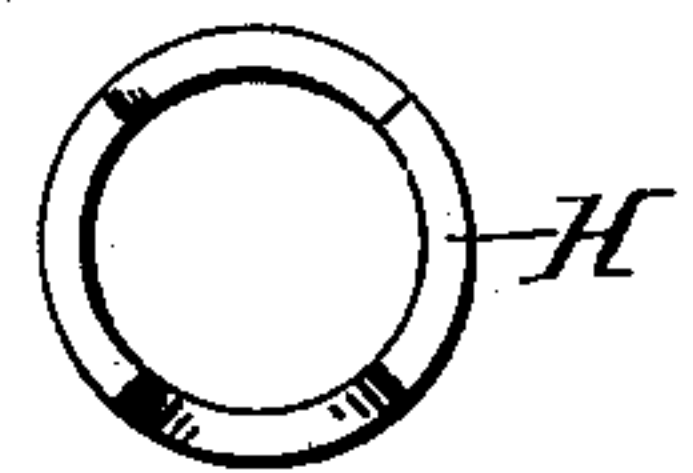


Fig. 5.



Witnesses  
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# UNITED STATES PATENT OFFICE.

FRANK FÜRST, OF NEW YORK, N. Y.

## FRUIT-PRESS.

SPECIFICATION forming part of Letters Patent No. 755,126, dated March 22, 1904.

Application filed August 28, 1903. Serial No. 171,044. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK FÜRST, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Fruit-Presses, of which the following is a specification.

My invention relates to that class of fruit-presses in which the fruit may be both macerated and pressed; and my improvements consist in the details hereinafter more fully set forth.

In the drawings, Figure 1 is a vertical sectional view of my improved press. Fig. 2 is an elevation of part of the compressing mechanism, showing the clutch disconnected. Fig. 3 is a top view of the ring-clutch. Fig. 4 is a cross-sectional view of the same. Fig. 5 is an elevation of the top of the follower-sleeve. Fig. 6 is a top view of the same; and Fig. 7 is a bottom view of the follower, partially broken away.

Similar letters of reference designate similar parts in all the figures.

The base of the press is formed of a single piece of metal A, provided with a circumferential gutter *a*, a discharge-nozzle *b*, and a circular groove *c*. A rod B is screwed into the center of the base A and carries a thread upon its upper part to receive the hand-wheel D, the hub *d* of which is forked at one end, as at *d'*, while the other end terminates in an even surface, as at *f*.

G is the follower, provided with pyramidal teeth *g g g* on the under side and with perforations *h h h* and carrying a sleeve H, which slides on the rod B. The upper end of the sleeve H is forked like the forked end of the hub *d*, and between the hub and the sleeve I interpose the clutch I, which is recessed to fit over the top of the sleeve H and has raised portions *i i*, adapted to interlock with the forked end *d'* of the hub *d*. Along the under and left-hand edges of these raised portions *i i* I place ribs or stops *j j*, which when the clutch is rotated will strike against the upper angles of the forked end of the sleeve H.

When the holder K is placed on the base A, resting in the groove *c* therein, the fruit to be pressed placed therein, as indicated by L L

in Fig. 1, the follower G slid down over the rod B, the clutch I placed upon the top of the sleeve H, and the hand-wheel D, with the forked end of the hub *d* down, screwed down on the rod B, the forked end of the hub *d* will engage with the projections *i i* on the clutch-collar I, rotating it also, and the lugs *j j*, engaging with the angles of the fork on the end of the sleeve H, will carry the sleeve and the follower G around also, causing the teeth or projections *g g* to macerate and level off the upper part of the mass of fruit as the follower descends. If it is desired to discontinue this macerating operation, the hand-wheel is reversed, carrying the clutch-collar back with it. The collar will now slide freely in the reversed direction on the end of the sleeve H until the projections *i i* are in line above the recesses in the forked end of the sleeve H, when they will drop into and fill up such recesses, letting the collar down on the sleeve, the tops of the projections *i i* and of the forked end of the sleeve forming an even surface upon which the forked end of the hub *d* may turn without engaging.

In a case when a positive locking engagement only is desired the clutch-collar I may be left off and the forked hub interlocked directly with the forked end of the sleeve H, and in a case when it is not desired to rotate the follower the smooth end of the hub may be run down either upon the clutch-collar or directly upon the top of the sleeve, giving an unlocked connection.

It is obvious that the juices expressed from the fruit will pass up through the openings *h h* in the follower G, as well as out through the openings *k k* in the holder K, and falling into the gutter *a* pass out through the spout *b*.

To prevent the juices from being forced up and out of the top of the sleeve H, I make an opening *m* near its base, through which the juice may run out on top of the follower G, and thence out through the holes in the sides of the holder K.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination, in a fruit-press, of a holder, a base provided with a guide and pres-

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sure rod, a follower provided with a forked sleeve and sliding upon said rod, and an actuating hand-wheel mounted upon said rod and provided with a forked hub to form a detachable, 5 rotating clutch connection between such follower and hand-wheel, substantially as set forth.

2. The combination, in a fruit-press, of a holder, a base provided with a guide and pressure rod, a follower provided with a forked sleeve and sliding upon said rod, an actuating hand-wheel mounted upon said rod and provided with a hub forked at one end and uniform at the other end to form an alternative rotating 15 or non-rotating connection between such follower and hand-wheel, substantially as set forth.

3. The combination, in a fruit-press, of a holder, a base provided with a guide and pressure rod, a follower provided with a forked sleeve and sliding upon said rod, an actuating hand-wheel mounted upon said rod and provided with a forked hub, and a ring-clutch interposed between the follower-sleeve and the 25 hand-wheel hub to lock the same in rotating connection in one direction and to be unlocked by reversing the rotation of the hand-wheel, substantially as set forth.

4. The combination, in a fruit-press, of a holder, a base provided with a guide and pressure rod, a follower provided with a forked sleeve and sliding upon said rod, an actuating hand-wheel mounted upon said rod and provided with a forked hub, and a clutch-collar provided with fingers having ribs or stops on their 35 under edges to engage with the upper angles of the forked sleeve, such fingers being in detachable connection with the forked hub of said hand-wheel, substantially as set forth.

5. The combination, in a fruit-press, of a holder, a base provided with a guide and pressure rod, a follower having a sleeve and sliding upon said rod, an actuating hand-wheel mounted upon said rod, and a ring-clutch adapted to 45 slide down on such follower-sleeve out of con-

nection with said actuating hand-wheel, substantially as set forth.

6. The combination, in a fruit-press, of a holder, a base provided with a central, guide and pressure rod, a follower provided with a sleeve 50 to slide upon such central rod, said sleeve having a juice-port near its junction with the follower, and an actuating hand-wheel mounted upon said rod, substantially as set forth.

7. The combination, in a fruit-press, of a base 55 provided with a circumferential gutter, a discharge-duct, an annular groove and a central screw-threaded rod, a perforated holder seated within said groove, a perforated follower provided with projections on its under side and 60 having a sleeve sliding upon said rod, an actuating hand-wheel threaded upon said rod, and a detachable clutch connection between such sleeve and hand-wheel, substantially as set forth. 65

8. The combination, in a fruit-press, of a base provided with a circumferential gutter, a discharge-duct, an annular groove and a central screw-threaded rod, a perforated holder seated within said groove, a perforated follower provided with projections on its under side and 70 having a sleeve sliding upon said rod, an actuating hand-wheel threaded upon said rod, and a detachable clutch connection consisting of a sliding collar between such sleeve and hand-wheel, substantially as set forth. 75

9. The combination, in a fruit-press, of a base provided with a circumferential gutter, a discharge-duct, an annular groove, and a central screw-threaded rod, a perforated holder seated 80 within said groove, a perforated follower provided with projections on its under side and having a forked sleeve sliding upon said rod, an actuating hand-wheel threaded upon said rod and having a forked hub, substantially as 85 set forth.

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Witnesses:

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