

J. Marchant,

Cherry Stoner.

No. 102021.

Patented Apr. 19. 1870.

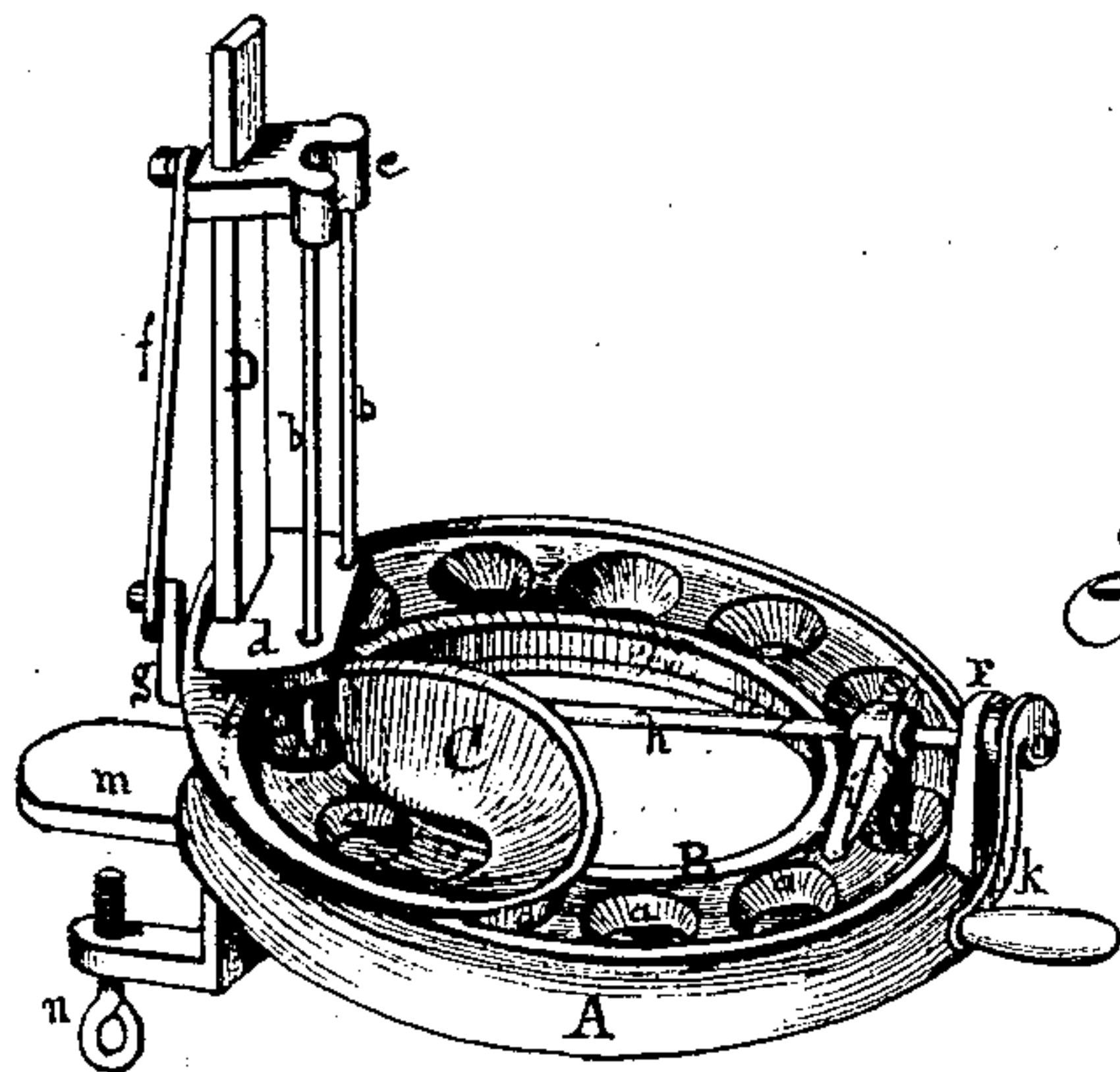


Fig. 1.

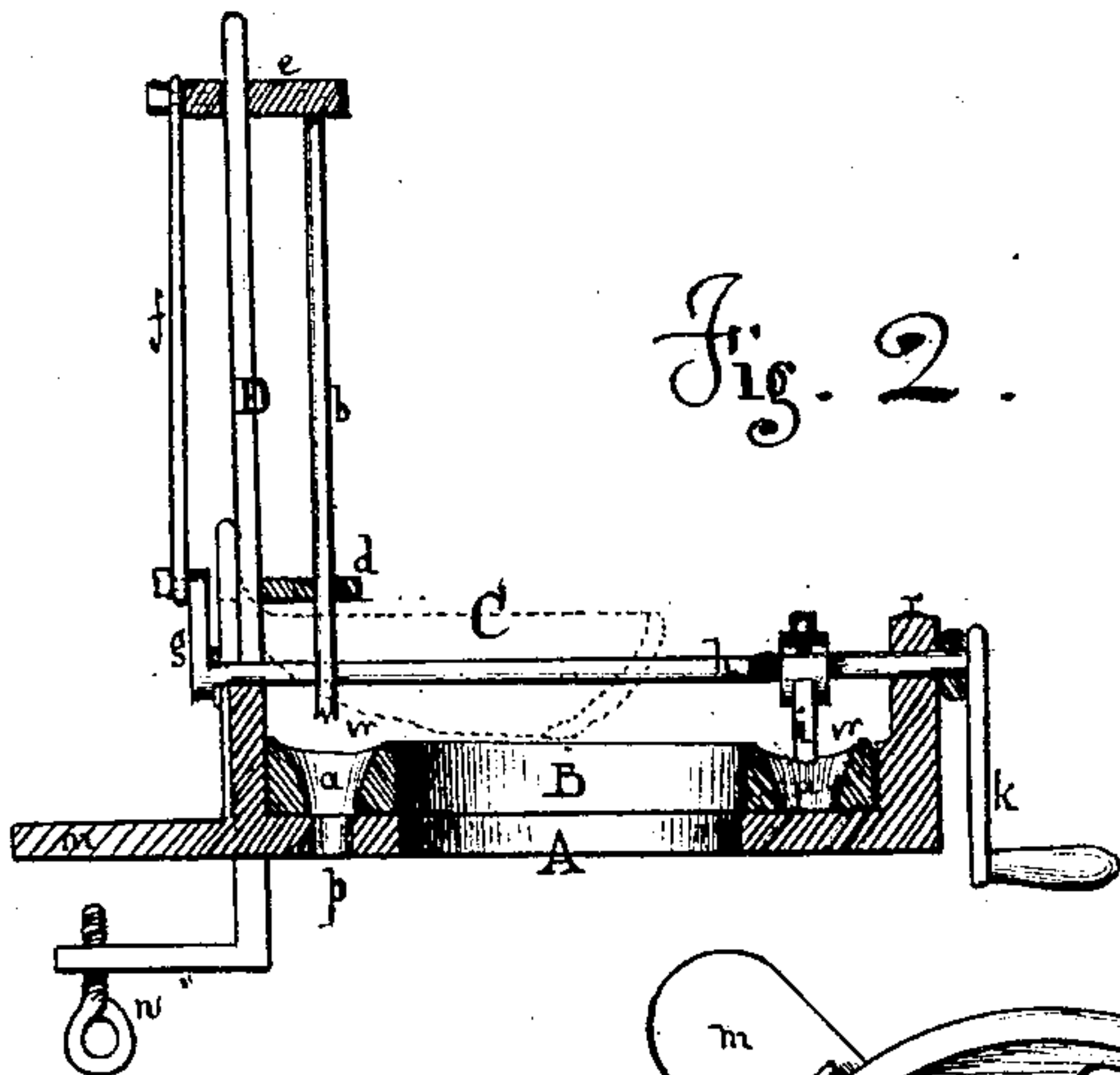


Fig. 2.

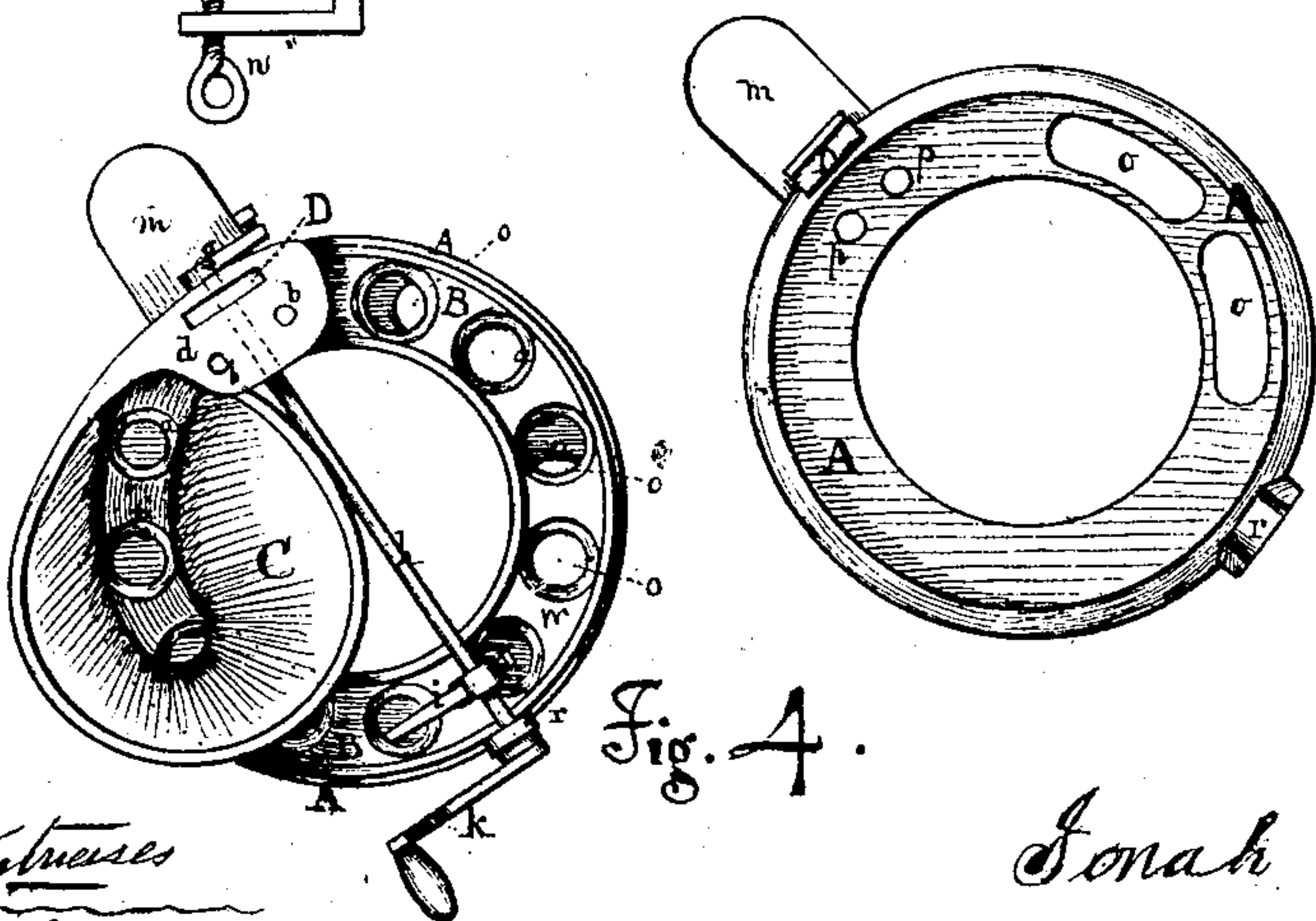


Fig. 3.

Fig. 4.

Witnesses
W. J. Perry
Edw. H. Norton

Jonah Marchant
Inventor

United States Patent Office.

JONAH MARCHANT, OF FARMINGTON, ILLINOIS.

Letters Patent No. 102,021, dated April 19, 1870.

IMPROVED CHERRY-STONER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JONAH MARCHANT, of Farmington, in the county of Fulton, in the State of Illinois, have invented a new and useful Machine called a Cherry-Stoner; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view of the cherry-stoner.

Figure 2, a sectional elevation.

Figure 3, a plan of the bed of the machine.

Figure 4, plan of the machine.

The nature of my invention consists in supplying cherries to vertical punches, or a punch, by means of a series of countersunk perforations in which the cherries rest, arranged around a horizontal circular rotating plate, which latter is moved by means of a shaft and winch, with dogs on the shaft, so arranged as to strike the sides of the holes under them, or other equivalent means of moving the plate. The same shaft, also, by means of a crank, operates the punches, which latter are set in a cross-head, which slides on a guide rising vertically from the bed of the machine.

A represents the "bed" of the cherry-stoner, which has a circular hollow or bed for the reception of a plate of the same shape, represented at B. This plate B is described hereafter.

The "bed" A has openings, *o o*, beneath or in that part of its bed which is under the rotating plate B, for the escape of the "stoned" cherries; and, also, smaller openings, *p p*, in that part of the "bed" beneath the punches, and corresponding to them, through which the stones are expelled from the fruit by the punches.

A "clamp," *m*, and screw, *n*, at end of the bed A, are a means for fastening the same conveniently to a table.

B is a horizontal plate or ring, having, at intervals around its margin, countersunk perforations, *a a a*, &c., about the size of a cherry, all lying in a circular groove forming the margin of the plate or ring in question. This groove is for the purpose of the more readily conducting the cherries into the countersunk holes *a a a*, &c.

C is a hopper, either attached to the base of the upright guide D, or to the bed A.

The bottom of the hopper opens by a curved delivery onto the plate B, said curved opening being an arc of the same curve as that of the plate B, so as to expose, for the reception of cherries, three or four of the holes *a a a*, including those holes which happen to be under the punches *b b*.

D is a vertical guide set in the "bed" A, and on which slides the cross-head *e* which carries the upper ends of the punch or punches *b b*, the lower ends

of each of the latter passing through and guided by the guide-plate *d*, immediately over the corresponding cherry-stone holes *p p* in the bed-plate A.

A horizontal shaft, *h*, has a bearing in the base of the guide D, the outer end of which shaft terminates in a crank, *g*, which is connected by a rod, *f*, with the cross-head *e* which carries the punches *b b*.

The other end of the shaft *h* has a bearing, *r*, on the other side of the bed A, where a winch, *k*, is used to turn it. Immediately over the line in which the countersunk holes *a a* circulate in the plate A, a double "dog," *i i*, is fastened to the shaft *h*, each of said "dogs" being extended low enough to strike the side of each hole *a*, so as to rotate the plate B when the shaft is turned. Other means for rotating the plate B may be used, such as rack and pinion, &c. The crank *g* has a sufficient radius as will allow a cherry to pass into the hole beneath each punch when the crank is raised, and also allow the punches to pass far enough downward to expel each stone.

The operation of this machine is as follows:

The handle *k* being rotated, either to the right or left, causes each of the dogs *i i*, in their revolutions, to strike the side of a separate hole, *a*, in the plate B, thus rotating the latter, and causing the deposit of a cherry or cherries at each impulse of the dogs under the punch or punches, while the crank *g*, on the other end of the shaft *h*, is raising the punches for a new blow. The stones are expelled through the lower or bed-plate B through the holes *p p*, the stoned cherries being carried forward in their respective holes *a a* by the rotation of the plate B, until the latter brings them over the larger holes *o o* in the bed-plate A, through which they fall into a proper receptacle.

What I claim as my invention is—

1. Feeding the punch or punches of a cherry-stoner by means of a horizontal rotating plate, B, having countersunk perforations, *a a a*, &c., around its periphery, situated in an annular groove, *w*, said countersunk perforations carrying the cherries under the punch or punches, substantially as and for the purposes described.

2. The "bed" A with its perforations *p p* and *o o*, when applied as stated, as and for the purposes described.

3. In combination with the above parts, the punches *b b*, when carried in the cross-head *e*, the cross-head *e*, its guide, D, punch-guide *d*, clamp *m* and screw, shaft *h*, with its dogs *i i* or equivalents for rotating the plate B, winch *k*, crank *g*, connecting-rod *f*, and hopper C.

In testimony that I claim the foregoing cherry-stoner, I have hereunto set my hand this 2d day of March, 1870.

JONAH MARCHANT.

Witnesses:

EDWARD HARLOW,
HENRY STORY.