

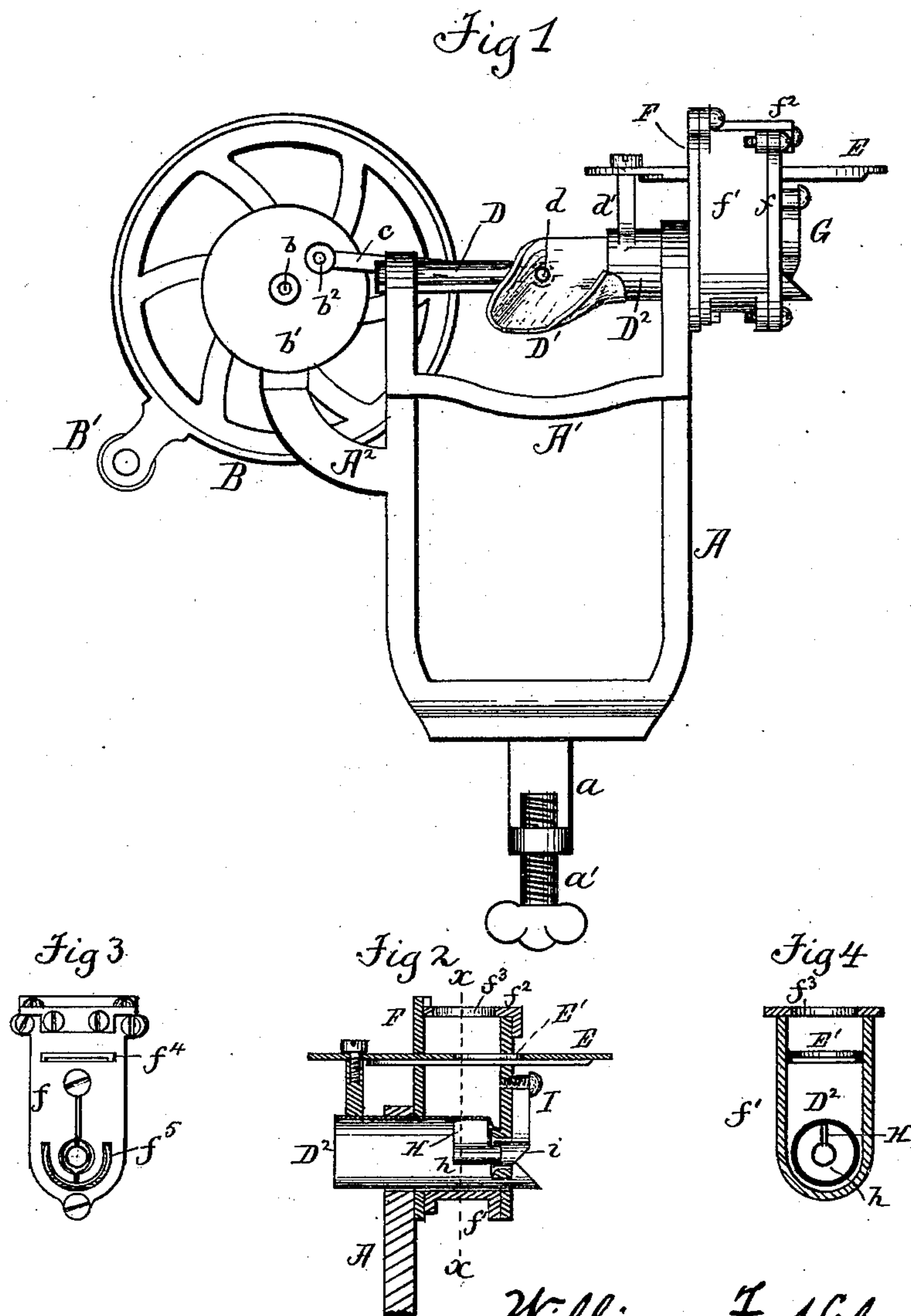
(Model.)

W. F. HIBNER.

CHERRY SEEDER.

No. 296,961.

Patented Apr. 15, 1884.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## CHERRY-SEEDER.

SPECIFICATION forming part of Letters Patent No. 296,961, dated April 15, 1884.

Application filed November 15, 1883. (Model.)

*To all whom it may concern.*

Be it known that I, WILLIAM F. HIBNER, of Baltimore city and State of Maryland, have invented certain new and useful Improvements in Cherry-Seeders, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof, in which—

Figure 1 is a side elevation of a machine embodying my invention; Fig. 2, a longitudinal vertical section through front plate and seeding mechanism. Fig. 3 is a front elevation of the seeding mechanism. Fig. 4 is a section on line *x x*, Fig. 2.

Like letters of reference mark the same parts in all figures.

My invention relates to cherry-seeders; and it consists in the improved construction and arrangement and combination of parts hereinafter described, and specifically pointed out in the claims.

Referring to the drawings, A is the main frame, which is provided with clamp *a* and clamp-screw *a'*, whereby it may be secured to the table or other structure in any well-known manner. This frame is provided with a cross-brace, A', and with a projecting arm or bracket, A<sup>2</sup>. This latter arm or bracket serves as support for the shaft or pivot *b* of a crank-wheel, *b'*, having a crank-pin, *b*<sup>2</sup>. This shaft *b* also carries a fly-wheel, B, provided with a suitable handle, B', for turning it. Attached to the crank-pin *b*<sup>2</sup> is a pitman, *c*, which is connected to a pin, *d*, secured to one side of a slide, which consists of a rod, D, passing through one of the arms of the main frame, a trough, D', secured to said rod, and a tube attached to said trough moving in the other arm of the main frame A.

Secured to the tube D<sup>2</sup> is an upright, *d'*, upon which is secured a shifting-plate, E, which is provided with a perforation, E', and which reciprocates with the sliding parts before mentioned.

Secured to or forming part of the upper end of the main frame is a plate, F. This plate F serves as one side of a box, G, the other parts of which are the front, *f*, and sides and bottom, *f'*, and top, *f*<sup>2</sup>. These parts are properly

secured together, and the top *f*<sup>2</sup> is provided with a hole, *f*<sup>3</sup>, (see Figs. 2 and 4,) while the front plate, *f*, is provided with suitable apertures, *f*<sup>4</sup> and *f*<sup>5</sup>, through which, respectively, the plate E and tube D<sup>2</sup> reciprocate.

Secured within the tube D<sup>2</sup> is a plate, H, having attached to its bottom a smaller tube, *h*, open at both ends. Attached to the front plate, *f*, is a plate, I, similar in construction to the plate H, and having at its bottom a tube, *i*, similar in construction but larger than the tube *h*, before referred to. The front end of the tube D<sup>2</sup> is cut off at about an angle of forty-five degrees, for reasons which are hereinafter specified.

The operation of my device may be described as follows: A suitable hopper having been placed on top of the machine, with its opening coincident or registering with the opening *f*<sup>3</sup> in the top of the box G, and the cherries having been placed in the hopper, are allowed to fall one by one through the bottom of the hopper and the hole *f*<sup>3</sup>, and in their descent they will pass singly through the hole E' in the plate E, when said hole is, by the reciprocation of said plate, brought beneath and made to register with the hole in the top *f*<sup>2</sup>. Having passed through this hole E', the tube D<sup>2</sup> being withdrawn, the cherry will drop into the front of the tube D<sup>2</sup>, which tube will now be thrown forward by the slide, pitman, and crank, and the small tube *h* will be forced through the cherry, and, being smaller than the stone or seed, will force it out of the fruit into the tube *i*. The tube D<sup>2</sup> being again retracted, the cherry before mentioned being impaled upon the tube *h*, will be carried back with it. Another cherry now drops into the front of the tube D<sup>2</sup>, and the same operation is repeated. The plate E, having been reciprocated with the tube D, has permitted another cherry to drop down. When the tube *h* has been pressed through another cherry the one formerly pierced by it will be forced backward off the rear end of it into the tube D<sup>2</sup>, and the continuous repetition of this operation will force the seeded cherries backward out of said tube into the trough D', from whence they will drop into any suitable recep-



tacle to receive them. The seed will in the meantime have been forced singly through and out of the tube *i*.

Having thus described my invention, what I claim is—

1. The combination of the tube  $D^2$ , having its forward end cut diagonally, plate H, and tube *h*, arranged therein, box G, plate I, and tube *i*, attached to the front of said box, and means, substantially as described, for reciprocating the tube  $D^2$  and its connections, as set forth.

2. The combination, with the main frame A, of the rod D, trough  $D'$ , and tube  $D^2$ , attached together, means for reciprocating them in said frame, box G, having perforated top, and plate E, attached to the tube  $D^2$  and having a perforation therein, and arranged to reciprocate

therein and act as a trap for the cherries, as set forth.

3. In combination, box G, having perforated top, tube  $D^2$ , having tube *h*, secured therein, tube *i*, attached to the front of box G in line with tube *h*, standard  $d'$ , plate E, attached to said standard, and means, substantially as described, for reciprocating tube  $D^2$  and plate E simultaneously, as set forth.

In testimony whereof I have hereunto set my hand this 7th day of November, 1883.

WILLIAM <sup>his</sup> × F. HIBNER.  
mark.

Witnesses:

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THOMAS BARTLETT.