

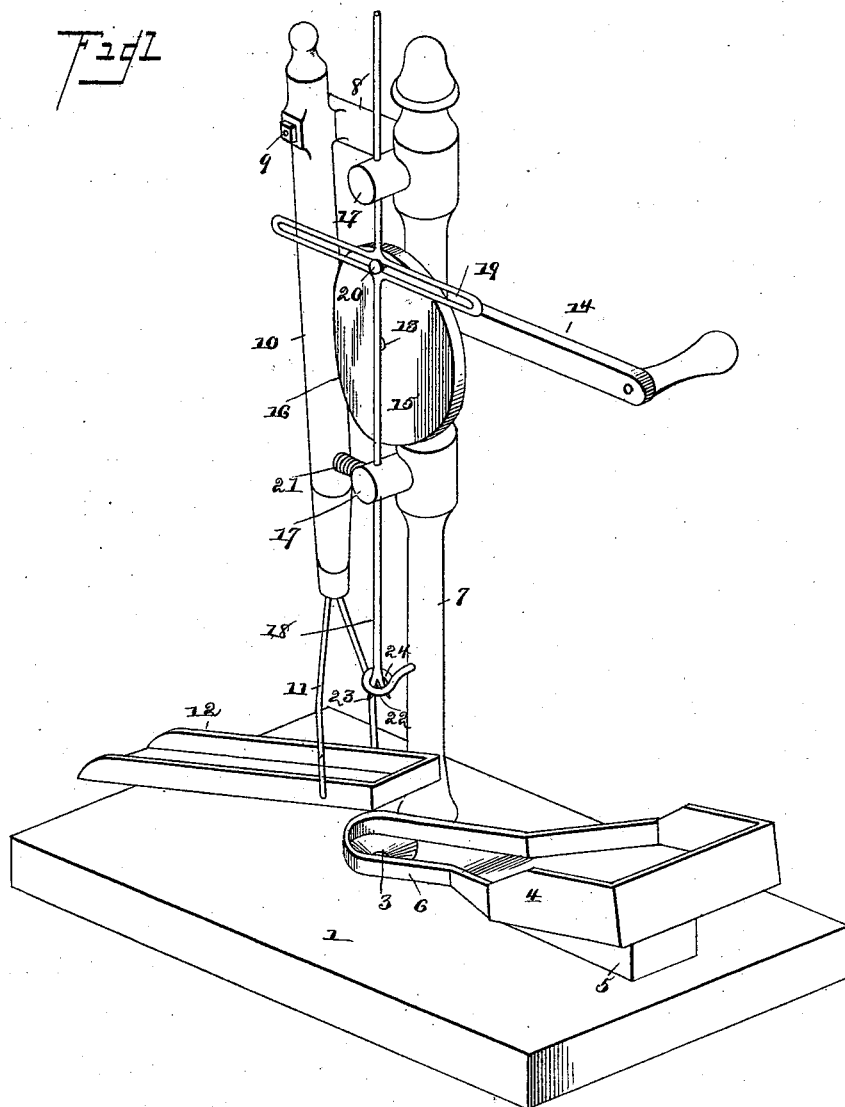
(No Model.)

2 Sheets—Sheet 1.

J. C. MAGRUDER.
CHERRY SEEDER.

No. 418,733.

Patented Jan. 7, 1890.



Witnesses:

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John Amirie Jr.
W. S. Luvall

By his Attorneys,

Inventor.

John C. Magruder

Chas Snow & Co

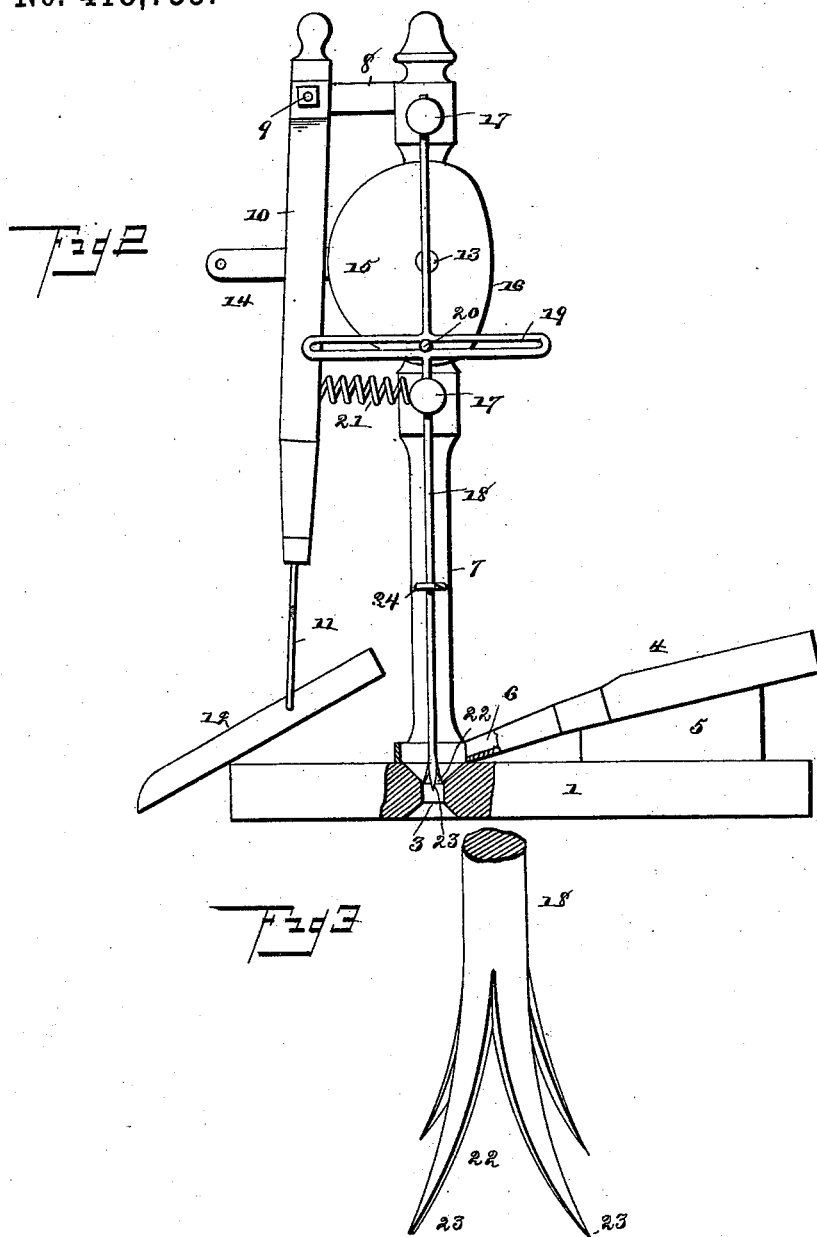
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UNITED STATES PATENT OFFICE.

JOHN C. MAGRUDER, OF HILLSBOROUGH, OREGON, ASSIGNOR OF ONE-HALF
TO ROBERT S. CRANDALL, OF SAME PLACE.

CHERRY-SEEDER.

SPECIFICATION forming part of Letters Patent No. 418,733, dated January 7, 1890.

Application filed May 29, 1889. Serial No. 312,521. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. MAGRUDER, a citizen of the United States, residing at Hillsborough, in the county of Washington and State of Oregon, have invented a new and useful Cherry Seeder or Pitter, of which the following is a specification.

This invention has relation to cherry seeders or pitters, and, though especially designed for the purpose of seeding or pitting cherries, the same may be employed for the purpose of similarly treating other fruits.

Among the objects of the invention are to provide a cheap simple device which will automatically remove the seeds from the cherry and deliver the cherry from the machine, and this by a simple, convenient, and cheap mechanism and in a rapid thorough manner.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a cherry-pitter constructed in accordance with my invention, showing the plunger in the act of discharging the fruit; Fig. 2, a front elevation, partly in section, showing the plunger in a different position; Fig. 3 is a detail in perspective of the lower or operating end of the plunger-rod.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 represents any ordinary base, which is clamped by an ordinary clamp to a table, and is provided with a substantially central vertical inverted-cone-shaped opening 3. At one side of the opening is mounted a feed-pan 4, which is inclined and supported by a block 5, secured to the base, and is further provided with a feed neck or mouth 6 at one end, which communicates with and terminates at the opening 3. At one side of the opening 3 and secured to the base rises a vertical shaft or support 7, at the upper end of which there projects laterally an arm 8, in which is pivoted, upon a pin 9, a pendulous vertical shaft 10, carrying at its lower end a bail 11, in the opposite arms of which is pivoted a delivery-pan 12, the outer end of which is open and is heavier than the opposite end, so that said

pan normally remains in a downwardly and outwardly inclined position. Passing transversely through the standard 7 and at an angle and below the arm 8 is a shaft 13, the rear end of which is squared to receive an operating-crank 14, and upon the front end is mounted a cam 15, one portion of which is flattened or cam-shaped, as at 16. Projecting from the front face of the standard 7, above and below the cam 15, are vertically-bored guiding studs or lugs 17, in which is mounted for vertical reciprocation a plunger-rod 18, which, intermediate the studs 17, is provided with a laterally-disposed elongated eye 19, into which engages a laterally-projecting pin or lug 20, projecting from the face of the cam 15 and near its periphery, said eye being in a plane parallel with the cam. A loose spring-link 21 pivotally connects the pendulous shaft or arm 10 with the lower stud 17. The lower end of the plunger-rod 18 is slotted in opposite directions, as at 22, and the ends bent or flared to form prongs 23.

24 represents a fruit-delivering eye, which projects from the front face of the standard 7, and through which passes the plunger 18.

The operation of my invention is as follows: Cherries or other fruit are placed in the pan 4, and fall by gravity into the inverted conical opening 3. The crank 14 is now revolved and the laterally-projecting pin 20, riding in the elongated eye 19, serves to depress the plunger-rod 18 and force the same into a cherry that is in the opening and to force the stone from said cherry through the opening. A continued revolution of the cam returns the rod to a raised position, and as it rises the cherry is brought upon the flared prongs 23, formed at the end of the rod, and is maintained by them until they come in contact with the liberating-eye 24, by which the cherry is forced from the plunger and into the delivering-pan 12. It will be noticed that the formation of the cam and the location of the pin 20 are such with relation to the other parts that at the time the plunger is raised to a point even with the liberating-eye the flat portion 16 of said cam is opposite and bears against the swinging or pendulous arm 10, which is drawn inwardly by means of the spring connecting-link 21, connecting the arm

with the stud 17, and thus the cherry delivered drops into the pan 12, and as the projecting portions of the cam successively come in contact with the arm 10 and the plunger-rod is lowered the liberated cherry is thrown by the cam into a receptacle placed under the same for that purpose.

Having described my invention, what I claim is—

1. The combination, with a vertical standard having a cam-shaft mounted therein and provided with a cam, and having vertical guide-lugs provided with a reciprocating plunger-rod having an elongated eye, and a pin extending from the cam into the eye, of an arm projecting from one side of the standard, a pendulous arm pivoted thereto and carrying a receiving-pan, and a yielding connection between the arm and standard, substantially as specified.

2. The base 1, having the opening 3, and the inclined pan 4, terminating in the reduced portion 6, in combination with the standard 7, having the shaft 13, cam 15, and the projecting pin 20, having the lugs 17, carrying the plunger-rod 18, terminating in the prongs 23 and having the elongated eye 19, and the cam 15, having the pin 20, engaging the eye 19, and the arm 8, having the pendulous arm 10 pivoted therein, as at 9, to the arm 8, and loosely connected by the spring-link 21 to the stud 7, and provided with the pivotal oscillating delivery-pan 12, all com-

bined and operating as and for the purpose specified.

3. In a cherry-pitter, the combination, with a standard, a cam mounted to revolve at one side thereof, and a crank for revolving the same, of an arm projecting from the standard, a pendulous arm pivoted at its upper end to the arm, a spring connecting the arm and standard and maintaining the arm in contact with the face of the cam, and a delivery-pan connected to the lower end of the arm, substantially as specified.

4. In a cherry-pitter, the combination, with the base having a cherry-receiving opening, of a standard located at one side of the opening, vertically-opposite perforated guiding-lugs projecting over the opening, a plunger mounted for vertical reciprocation over the opening and in the lugs and provided with an elongated transverse eye and a cam-shaft and cam mounted in the standard, a crank for operating the same, and a pin projecting from the cam and into the eye for operating the plunger to and from the opening, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN C. MAGRUDER.

Witnesses:

WILLIS WAGGENER,
E. C. HUGHES.