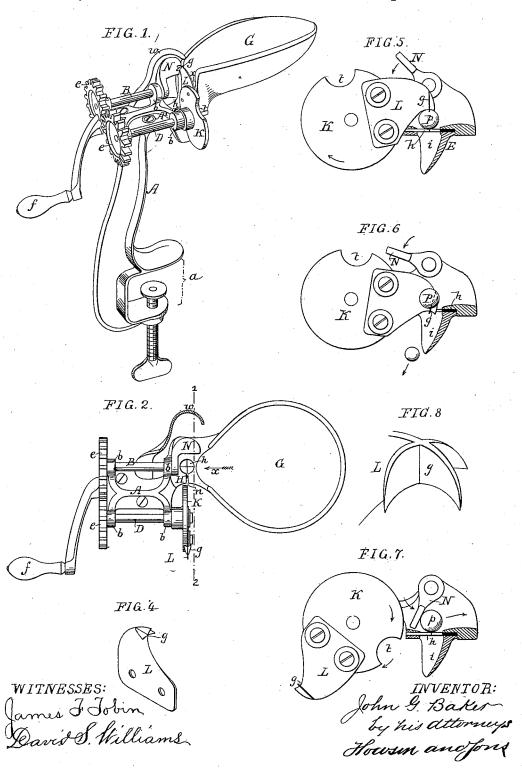
## J. G. BAKER.

#### CHERRY STONER.

No. 264,217.

Patented Sept. 12, 1882.

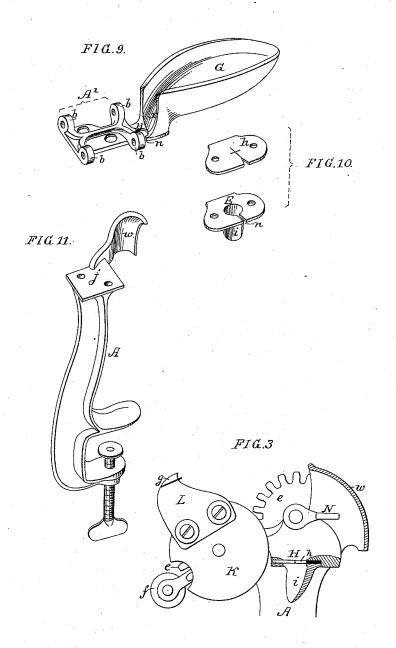


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CHERRY STONER.

No. 264,217,

Patented Sept. 12, 1882.



WITNESSES:

James J. John David S. Williams INVENTOR:
John G. Baker
by his attorneys
Sowsm and Jong

N. PETERS, Photo-Lithographer, Washington, D. C

# United States Patent Office.

JOHN G. BAKER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE ENTERPRISE MANUFACTURING COMPANY, OF SAME PLACE.

#### CHERRY-STONER.

SPECIFICATION forming part of Letters Patent No. 264,217, dated September 12, 1882. Application filed July 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, John G. Baker, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Cherry-Stoners, of which

the following is a specification.

My invention consists of certain improvements, fully described hereinafter, in that class of cherry-stoning machines in which the stone 10 is separated from the pulp by placing a cherry on a yielding diaphragm having slits and forcing the stone from the pulp and through the

said diaphragm.

In the accompanying drawings, Figure 1, 15 Sheet 1, is a general perspective view of my improved cherry-stoner; Fig. 2, a plan view; Fig. 3, Sheet 2, a vertical section on the line 1 2, Fig. 2, looking in the direction of the arrow; Fig. 4, Sheet 1, a detached perspective view of the blade; Figs. 5, 6, and 7, diagrams illustrating the operation of the machine; Fig. 8, an enlarged view of the outer end of the stoning-blade; and Figs. 9, 10, and 11, Sheet 2, perspective views illustrating the mode which 25 I prefer of constructing the frame-work of the machine.

The frame A, Fig. 1, terminates below in a clamping device for the attachment of the machine to a table; but it will be understood that 30 the frame may be constructed with a base for resting on or for attachment to a table in different ways. The upper portion of the frame has bearings b b for the shafts B and D, which are geared together by cog-wheels e e, so as to re-35 volve at the same speed, one or other of the shafts being furnished with a suitable handle, f.

G is the hopper for receiving the fruit, this hopper being inclined, so that there will be a tendency of the cherries toward the throat x 40 of the hopper, which throat is so contracted that not more than one cherry at a time can pass through it and into a recess or pocket, H. At the bottom of this pocket is an elastic diaphragm, h, secured to the frame over an 45 opening therein, and having incisions which in the present instance are of a cruciform shape, so as to present elastic lips, which will yield to the passage of a cherry-stone, but will, immediately after the passage of the stone, re-50 sume their normal condition, which is that of | lution of the disk and clearer—an arrangement 100

a base for supporting a cherry during the operation described hereinafter. The flange of the hopper is discontinued at the throat, and there is a slot, n, in the frame, communicating with the opening closed by the diaphragm, this 55 slot coinciding with one of the incisions made

in the said diaphragm.

To the shaft D is secured a disk, K, and to the latter is attached a blade, L, having several cutting-edges, g, which I prefer to arrange 60 in the manner shown in Fig. 8, where it will be observed that the cutting-edges are hooked, so that on striking the stone the latter cannot slip away, but must remain under the influence of the cutter until it is forced away from 65

To the shaft B is secured an arm, N, which I will term the "clearer," as its duty is to remove the pulpy part of the cherry from the pocket H after the cherry has been stoned.

Referring to Fig. 5, it will be seen that the blades g of the cutter L are about to make incisions in the cherry p, which is lodged in the pocket H on the diaphragm h. As the cutter pursues its course in the direction of the ar- 75 row it will, after making its way through the pulp of the cherry, strike the stone, and with a claw-like action seize the upper portion of the same and drive it through the diaphragm, on which the pulp will remain. In the mean- 80 time the clearer N has been approaching a position where its duty commences, and when the blade L is entirely clear of the cherry the latter, which has been deprived of its stone, will be dislodged by the clearer from the pocket 85 H, whence it will fall into any suitable receptacle, another cherry from the hopper being lodged in the pocket, ready to be operated upon in the manner described.

An arm carrying the blade L might be sub- 90 stituted for the disk K; but I prefer the latter, as it helps to keep the cherry in place before it is struck by the cutters. When the cutters first strike the cherry they have a tendency to cause the juice to fly from the same, and in or- 95 der to prevent inconvenience on this account I arrange adjacent to the pocket H a shield or guard, w. There is a recess, t, in the disk for admitting the clearer at one point in the revowhich permits the clearer to revolve in the desired course in relation to the pocket for per-

forming its duty properly.

In carrying out the above features of my in5 vention it is not essential to adhere to the precise style of frame-work shown; but the structure is of such simplicity and the parts which
compose the frame are so easily put together
that I will proceed to describe the said frame
more minutely, because I look upon it as an
important feature of my invention.

It will be seen on reference to Fig. 9, Sheet
2, that the hopper G and plate A' (the latter
being constructed for attachment to the top j
15 of the stand A) are cast in one piece, and that
in the casting are comprised the shaft-bearings
b b and pocket H. The shield w is cast on the
stand A, and the small casting E, constructed
for attachment to the under side of the plate
20 A', serves to confine the elastic and partlysevered diaphragm h to the said plate, the said
casting E having the slot n, previously referred
to, and a chute, i, for directing the stones into
any receptacle apart from that which receives
25 the pulpy part of the cherry.

To those familiar with foundry operations
the facility with which the molds for the above
castings can be made will be readily understood. The most important feature of my in30 vention, however, is the combination of the rotating blade L with the pocket and its elastic

partly-severed diaphragm.

The front edge of the blade L is inclined, so that if a cherry, in entering the pocket, rolls beyond the center of the same, the inclined edge of the cutter, as the latter revolves, will act upon the cherry and restore it to its proper position before the cutters g commence to act upon it.

I claim as my invention—

o 1. The combination, in a cherry-stoner, of a rotating blade with an elastic diaphragm hav-

ing incisions, one of which extends through the edge of the diaphragm for the passage of the blade, substantially as described.

2. The combination of the inclined hopper 45 G, having throat x, the pocket H, and partly-severed diaphragm with a rotating blade, sub-

stantially as set forth.

3. The combination of the hopper G, its throat, the slotted pocket, and partly-severed 50 diaphragm with the rotating disk and its blade,

substantially as specified.

4. The combination, in a cherry-stoner, of a partly severed diaphragm for supporting a cherry, a rotating blade for striking the stone 55 from the cherry, and a rotating clearer for removing the pulp from the diaphragm, all substantially as described.

5. The combination of the rotating disk K, carrying the blade, and having a recess, t, 60

with the rotating clearer N.

6. The combination of the diaphragm for supporting a cherry, the rotating stoning-blade L, and the shield w, substantially as specified.

7. The combination of the hopper G, its 65 throat x, and pocket H, and the plate A', with its bearings b, the whole being cast in one piece, and constructed to form the upper part of the frame of a cherry-stoner, as set forth.

8. The combination of the hopper G and 70 plate A' with a casting, E, adapted to confine the elastic diaphragm to the plate, and having a chute, i, for directing the stone, substantially as described.

In testimony whereof I have signed my name 75 to this specification in the presence of two sub-

scribing witnesses.

JOHN G. BAKER.

Witnesses:

HARRY DRURY, HARRY SMITH.