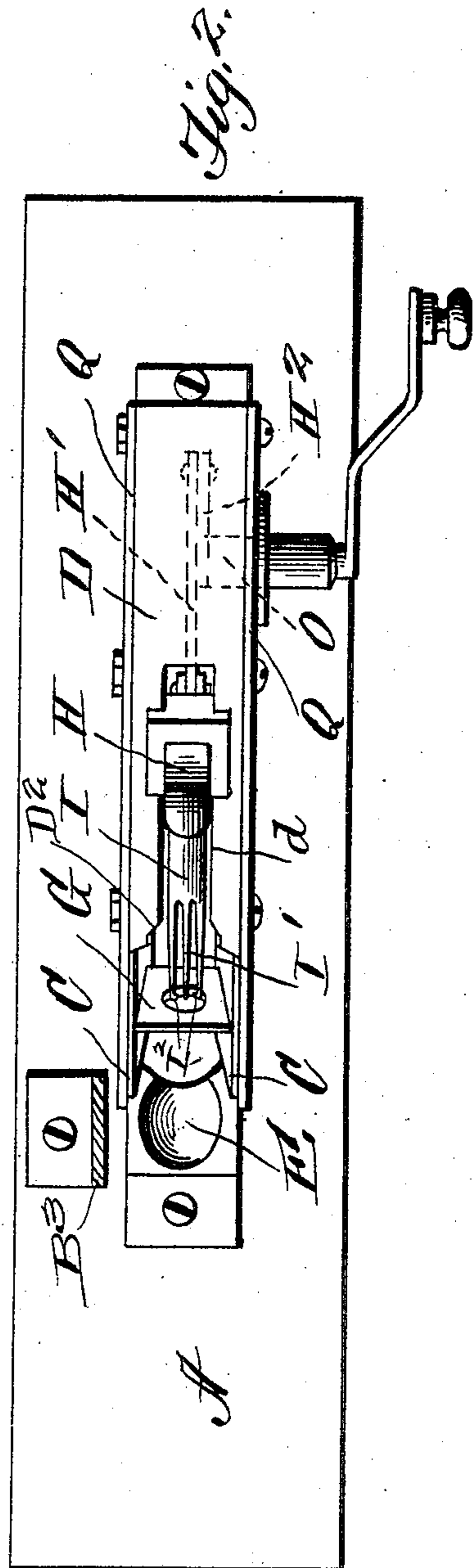
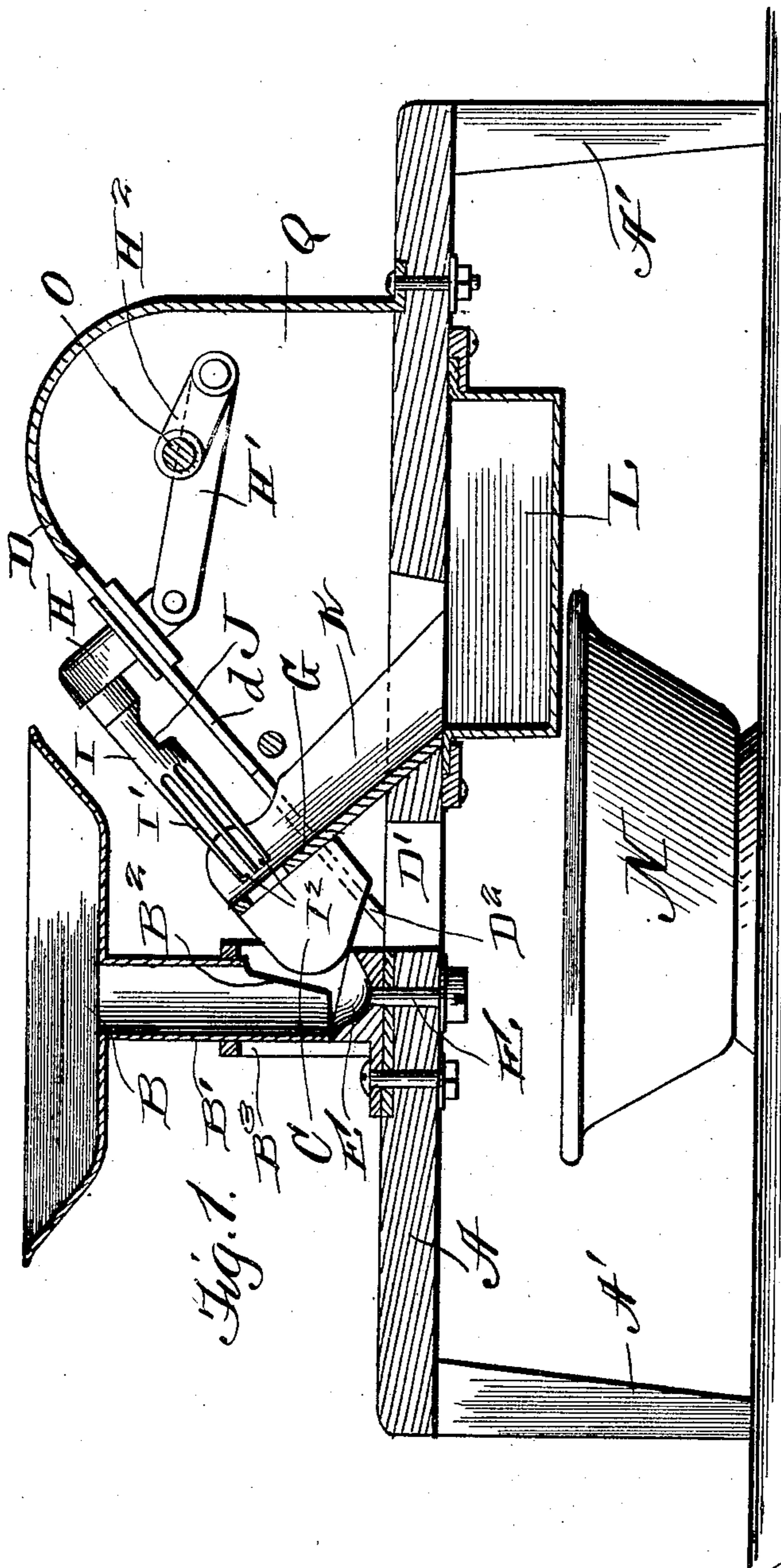


No. 843,955.

PATENTED FEB. 12, 1907.

B. MAI.
CHERRY STONER.

APPLICATION FILED JULY 13, 1906.



Witnesses
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CHERRY-STONER.

No. 843,955.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BERNHARDT MAI, a subject of the Emperor of Germany, residing at Erfurt, Germany, have invented certain new and useful Improvements in Cherry-Stoners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in apparatus for removing stones from cherries, and comprises a hollow reciprocating member having hooked arms which are adapted to pierce a cherry and engage the stone therein and draw the same through an apertured plate, thereby separating the stone from the meat of the cherry.

The invention comprises various details of construction and combinations and arrangements of parts, which will be herein after fully described, and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which—

Figure 1 is a vertical sectional view longitudinally through my cherry-stoner, and Fig. 2 is a top plan view.

Reference now being had to the details of the drawings by letter, A designates a table mounted upon suitable legs A', and B designates a hopper having a hollow shank portion B', which is cut away at B² near its lower end to receive the guide-wings C, which are fastened to an arched bar D, which is fastened to said table. Positioned underneath the shank portion of said hopper is a concaved tray E, upon which cherries are adapted to fall singly from the shank portion of the hopper. Said tray, which is made preferably of a metal, has a set-screw E' secured thereto, which set-screw is mounted in a threaded aperture in said table. The shank portion of the hopper is mounted within a casing B³, which is bolted or otherwise secured to the table. G designates an apertured plate, which is interposed between the two guide-plates C and is mounted upon said arched bar D, forming a part of the apparatus. Mounted to have a reciprocating movement in a slot in said arched

bar is a post H, to the upper end of which is fastened a shell I, having a series of fingers I', terminating in hooked ends I², with spaces intermediate said fingers, as shown clearly in the drawings. Said fingers are adapted to reciprocate in alinement with the aperture in the plate G, through which they are adapted to move as the shell is driven forward and backward. Said shell has a cut-away portion J, through which the cherry-stones are adapted to fall through a slot d in the arched bar D, and positioned underneath said opening is an inclined trough or chute K, adapted to guide the stones into a receptacle L, positioned underneath the table. It will be noted that said arched bar D has an opening D² near its lower end, and through which the pulp of the cherries is adapted to fall after the stones have been extracted therefrom, and a suitable receptacle N is positioned underneath opening D', in which the stoned cherries may be deposited. Said post H, which has a reciprocating movement in an opening in the inclined portion of the arched bar D, has a link H' pivotally connected thereto, which in turn is pivoted to a second link H², which is fixed to a shaft O, journaled in the opposite walls Q, over which said arched bar extends, thus forming an inclosure within which said links are mounted. A suitable crank-handle is fixed to the end of said shaft O, whereby the same may be rotated.

The operation of my invention will be readily understood and is as follows: The cherries to be stoned are placed within the hopper and allowed to fall through the hollow shank portion singly upon the shelf E and in alinement with the hooked fingers of the shell I. As the shell I is driven downward through the opening in the plate G the fingers thereof will be driven into the cherry centrally, and the ends of the fingers hooking over the stone will draw the cherry up against the plate G, and as the aperture in said plate is of smaller diameter than the diameter of the cherry the stone will be pulled through the opening and the pulp of the cherry will fall through the opening in the table and into the receptacle N underneath the latter. As the shell is reciprocated the stones which accumulate therein will be pushed out through the opening J and allowed to fall into the receptacle L.

From the foregoing it will be noted that by the provision of the apparatus shown and described a simple and efficient device is afforded for rapidly removing the stones from cherries, the pulp and the stones being separated, the whole apparatus being automatic in its action and manipulated by hand or other power, causing the shell to reciprocate, piercing the cherries singly as they fall upon the adjustable tray underneath the hopper.

What I claim is—

1. An apparatus for removing stones from cherries comprising a hopper having a hollow shank portion, a tray mounted underneath the exit end of said shank portion and on which cherries are adapted to fall, a hollow reciprocating shell having fingers which are provided with hooked ends, an apertured plate through which said fingers are adapted to move and pierce a cherry, the marginal outlines of the aperture in said plate being adapted to hold the pulp of the cherry while the stone is pulled by said fingers through the aperture, as set forth.
2. An apparatus for removing the stones from cherries comprising a hopper having a hollow shank portion, an adjustable tray positioned underneath the exit end of said shank portion and upon which cherries are adapted to fall singly, a hollow reciprocating

shell having fingers which are provided with hooked ends, an apertured plate through which said fingers are adapted to move and against the marginal edges of which the cherry pierced by said fingers is adapted to contact, whereby the stone may be pulled through the aperture and separated from the pulp of the cherry, said shell having an opening in the wall thereof through which the stones are adapted to pass, as set forth.

3. An apparatus for removing the stones from cherries comprising a table, a hopper having a hollow shank portion, a tray positioned underneath the exit end of said shank portion, an arched bar fixed to the table and having a slot therein, a post adapted to reciprocate in said slot, means for moving said post, a hollow shell fixed to said post and having fingers which are spaced apart and provided with hooked ends, and a plate secured to said arched bar and provided with an aperture through which said fingers are adapted to move, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

BERNHARDT MAI.

Witnesses:

WILHELM MÜLLER.

GUSTAV GUICHTEL.