(No Model.)

C. DE PUY & E. H. BURGHARDT

MACHINE FOR SLICING APPLES.

No. 269,835. Patented Jan. 2, 1883.

Fig. 4.

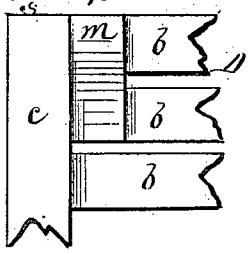


Fig. 1.

Fig. 5.

Fig. 2.

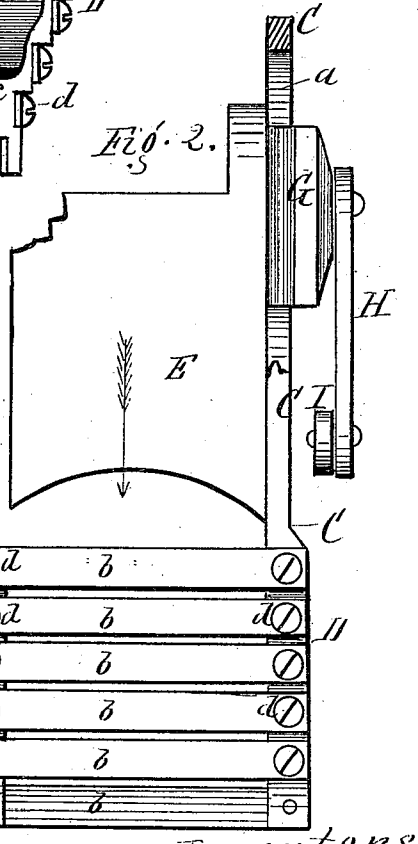
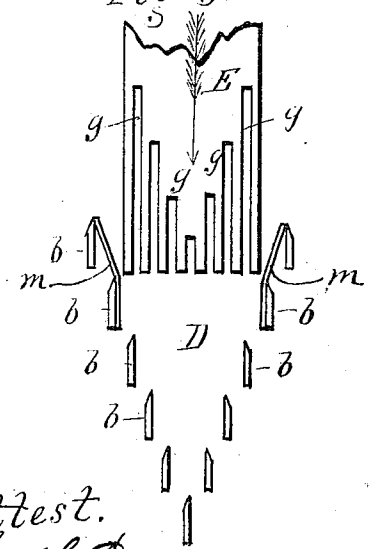


Fig. 3.



Attest.
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UNITED STATES PATENT OFFICE.

CLARENCE DE PUY AND EDWARD H. BURGHARDT, OF ROCHESTER, N. Y.

MACHINE FOR SLICING APPLES.

SPECIFICATION forming part of Letters Patent No. 269,835, dated January 2, 1883.

Application filed March 15, 1882. (No model.)

To all whom it may concern:

Be it known that we, CLARENCE DE PUY and EDWARD H. BURGHARDT, of Rochester, Monroe county, New York, have invented a certain new and useful Improvement in Apple-Slicers; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation of the apparatus. Fig. 2 is a side elevation of the knives and follower and connecting parts. Fig. 3 is a diagram showing the operation of the knives and follower. Figs. 4 and 5 are detail views.

Our improvement relates to an apparatus for slicing apples or other fruits, after they have been pared and cored, by means of a stationary hopper-shaped set of knives and a follower, which is driven down to force the apple along, and also to force the cut slices through the knives.

The invention consists in the construction and arrangement of parts hereinafter more fully described and claimed.

In the drawings, A represents a frame, bolted fast to a table, B, and having at its outer end a vertical plate or standard, C, slotted longitudinally, as shown at *a*, and forming the guide for the follower.

D is an open-ended hopper, projecting outward at right angles to the back plate, and consisting of a series of stationary knives, *b b b*, arranged in V form, one above the other, and attached at their ends to the edge of the back plate, C, and a rib, *c*, by means of screws *d d*, or other suitable means. The knives are thus stiff and fixed, leaving spaces between them for the passage of the slices, and the hopper, being open-ended and open-topped, allows the apples to be inserted horizontally, by which means they can be adjusted or placed in proper position for the cut to be made crosswise, or at right angles to the core-passage, which cannot as readily be done where the apple is inserted downward into the hopper.

E is the follower, consisting of a block of wood or metal sliding up and down on the back plate, and provided with a series of slits or kerfs, *g g*, coinciding in vertical line with the knives, and graduated in length, so as to pass over and embrace the knives as the follower is forced down, and allow the lower end of the latter to pass below the lower knife.

G is a T-shaped slide attached to the back of the follower and resting in the slot *a*.

H is a pitman, jointed at one end to the slide and at the other to a lever, I, which latter is pivoted at the outer end to a fulcrum, *k*. By moving the lever up and down the follower will be correspondingly raised and lowered. Any other suitable means may be used to operate the follower. The follower is made concave on the under side to fit the curvature of the apple.

m m m m are four metallic guides, placed one at each corner of the hopper, connecting the first and second knives, as shown in Figs. 3 and 4. The end of the follower striking these guides is exactly centered, so that the slits will strike over the knives. If they were not used, a slight viberation might cause the end of the follower to strike the knives and cause breakage or other injury.

In operation the apples are placed one by one into the open end of the hopper, with the core-passage standing horizontally to right and left, and the follower is then brought down, which forces the apple through the knives, cutting it into slices, which drop below. The apple is not only brought down, but each individual slice is forced through by the thin tongue of the follower, which rests above it.

Having thus described our invention, we do not claim broadly a series of knives arranged in converging tiers, with a reciprocating follower above the knives; but

What we claim as new, and desire to secure by Letters Patent, is—

In an apple-slicer, the combination of the open-topped and open-ended hopper D, provided with knives *b b*, the follower E, provided with slots *g g*, and the four metallic guides *m m m m* at the four corners of the hopper for guiding and centering the follower, as herein shown and described.

In witness whereof we have hereunto signed our names in the presence of two subscribing witnesses.

CLARENCE DE PUY.
EDWARD H. BURGHARDT.

Witnesses:
R. F. OSGOOD,
JACOB SPAHN.