P. BERZINE.

Vegetable-Slicer.

No. 224,631. Patented Feb. 17, 1880.

Fig. 1.

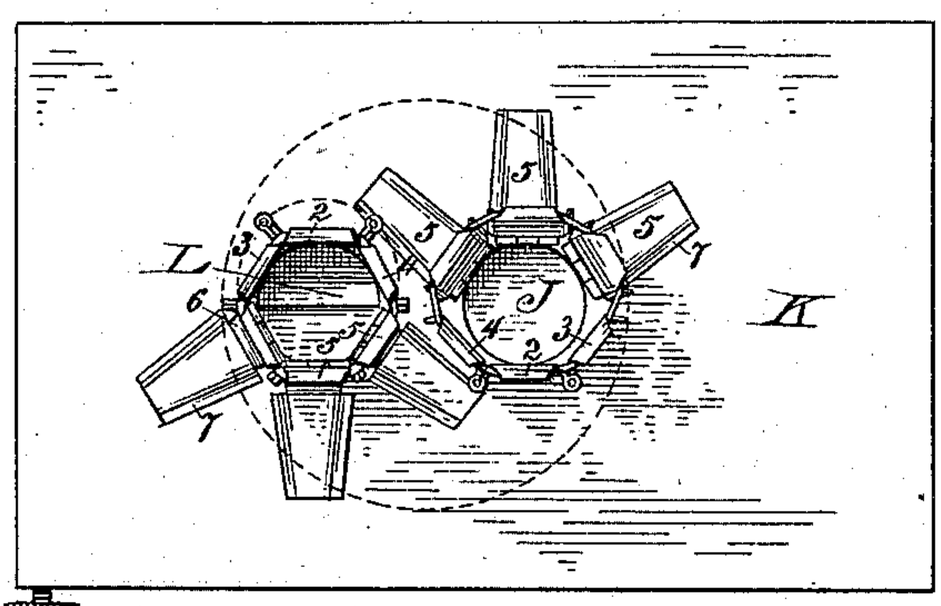
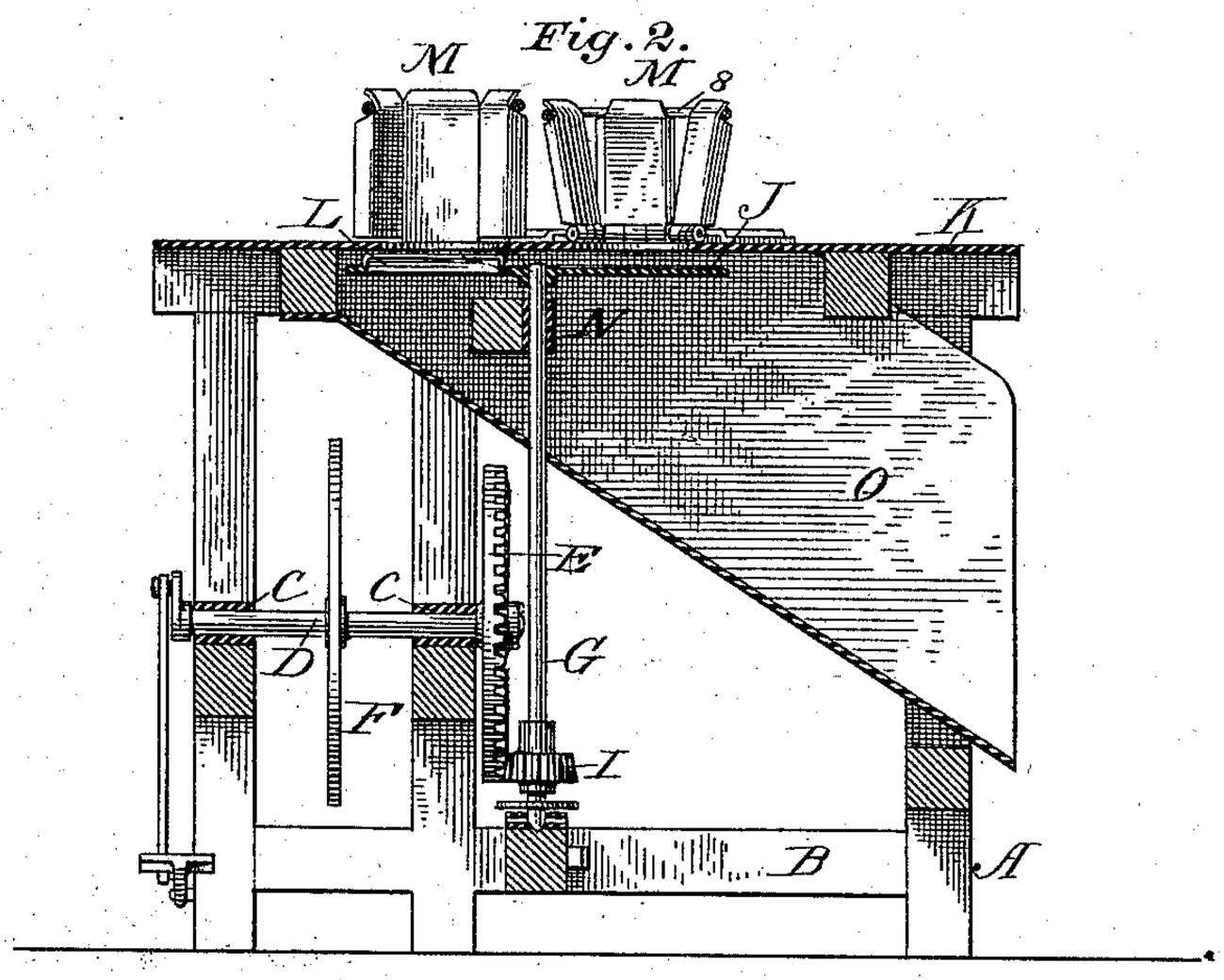


Fig. 2.



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UNITED STATES PATENT OFFICE.

PHILIP BERZINE, OF WILLIAMSON, NEW YORK.

VEGETABLE-SLICER.

SPECIFICATION forming part of Letters Patent No. 224,631, dated February 17, 1880.

Application filed December 24, 1879.

To all whom it may concern:

Be it known that I, PHILIP BERZINE, of Williamson, in the county of Wayne and State of New York, have invented a new and useful Improvement in Apple-Slicers; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to machines operated by hand or treadle power for slicing apples, potatoes, and other fruits and vegetables.

It has for its object the construction of a more simple and effective machine, which can be cheaply manufactured.

My invention consists, partly, in the peculiarly-constructed adjustable feed-boxes adapted to receive and hold single vegetables of various sizes, and its combination with the rotary cutting board and knife; and, further, in the general construction and arrangement of the parts, as fully hereinafter explained.

In the accompanying drawings, Figure 1 is a top view, and Fig. 2 a central longitudinal section.

The machine is supported on a suitable frame-work composed of standards and bed-pieces A B, suitably braced. At one end of the machine the standards are arranged in pairs, forming an auxiliary frame to support the driving mechanism in the following manner: C C are cross-braces, in which is journaled a shaft, D, and on one end of the shaft is keyed a gear-wheel, E. On the shaft, between the bearings, is fixed a balance-wheel, F, to regulate and steady the motion. On the outer end of the shaft is attached a crank-handle, by which it is operated; but, if preferred, I design to attach a foot-treadle thereto. In the central cross-piece connecting the two parallel bed-pieces B is stepped a vertical shaft, G, its upper end passing through bearings in a cross-piece, N. Near the lower end of this shaft is a pinion, I, meshing with the gear-wheel E, by which the shaft G receives a rotary motion. On the upper end of the shaft G is rigidly attached a circular cutting board or table, J, which is caused to revolve by the motion of the shaft G in close proximity to the top or cover K of the machine. To the upper side of the cutting-board I is secured a cutter, L, placed above a slot in the cutting-board, the edges of which slot are turned down, as at 1, to permit the slices to pass through the slot. The knife being rigidly attached to the cutting-board, of course receives a rotary motion from the driving-gear.

An opening, preferably of circular form, is made in the top or cover K, which opening is directly above the path traversed by the knife in its rotation, and on the cover and surrounding the opening is an adjustable feed-box, M. This box is preferably constructed in six sections, 2 3 4 5, which form its sides. The section 2 is attached to the cover on one side of the feed-opening, and to it are hinged the sections 3 4, which are thus allowed to open to any desired extent. The sections 5 are separately and adjustably attached to the cover by means of a right-angled portion, 6, sliding in ways 7, also attached to the cover.

It is thus evident that the feed-box can be enlarged or contracted to accommodate fruit or vegetables of any size.

I prefer to use two feed-boxes placed in close proximity to one another, as shown in the drawings, the capacity of the machine being thereby doubled, two slices being cut at each revolution of the knife.

O is a chute, suitably attached beneath the cover, to receive the slices as they fall through the opening in the cutting-board.

In operating the device the apples are fed into the adjustable box, and drop by gravity onto the cutting-board, and are sliced continuously by the cutter in its rotary motion.

Apples of any size can be cut, and in a more effective and thorough manner than hitherto.

I prefer to use a spring-band, 8, around the upper ends of the sections composing the feed-box, which causes them to contract and hold the apple stationary upon the revolving board and permits it to drop by gravity as it is sliced. Otherwise the revolution of the board would keep the apple in motion and prevent it from being sliced equally.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a vegetable-slicer, the combination, with a revolving board or table carrying a cutter, of a feed-box by which the apples are held in proper position with relation to the

cutter, the said feed-box being adjustable by means of sliding side sections to receive and hold single vegetables of various sizes, substantially as described and shown.

2. In a vegetable-slicer, a feed-box composed of adjustable sections and having a spring or band for automatically adjusting their position, substantially as described.

3. In a vegetable-slicer, a feed-box having the stationary section 2, hinged sections 3 4, and adjustable sliding sections 5, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PHILIP BERZINE.

Witnesses:
W. S. THROOP,
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