R. L. DORSEY.

VEGETABLE CUTTER.

APPLICATION FILED DEC. 9, 1907.

911,478.

Patented Feb. 2, 1909.

Fig. 1.

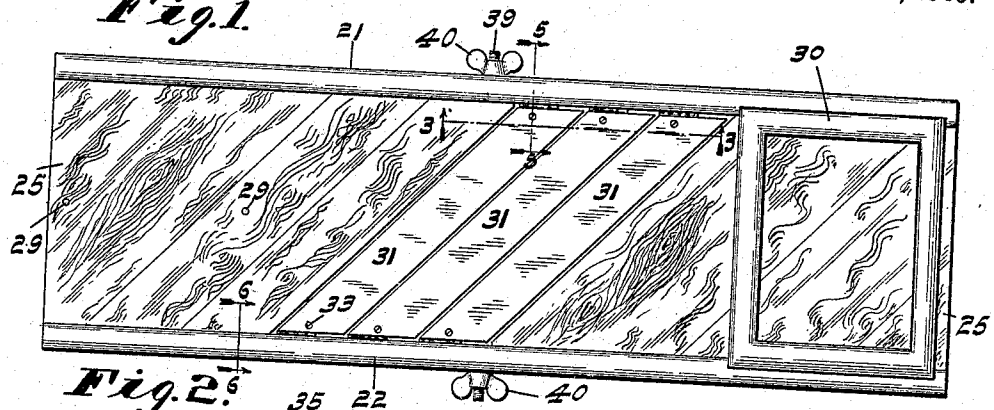


Fig. 2.

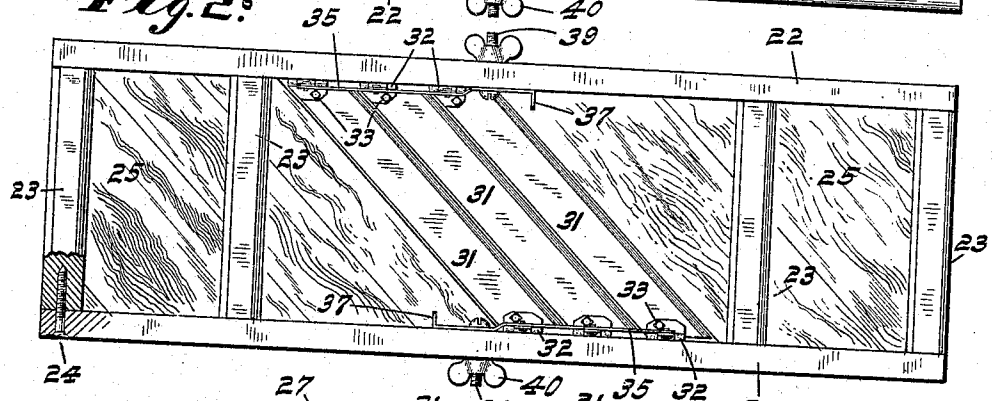


Fig. 3.

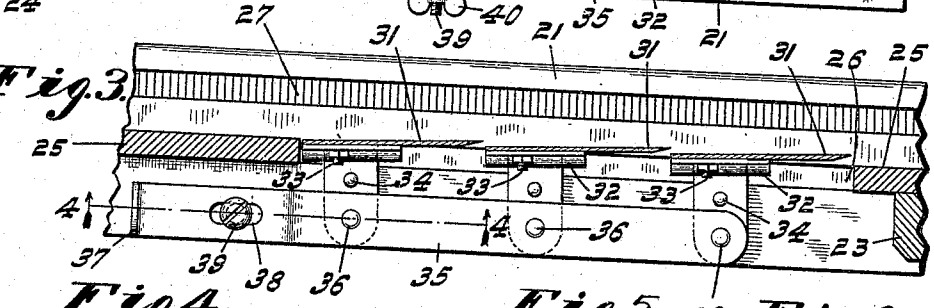


Fig. 4.

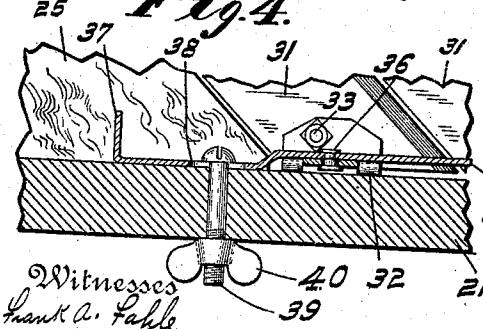


Fig. 5.

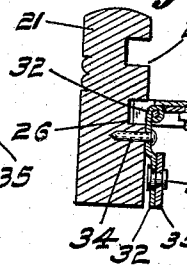
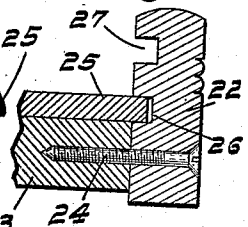


Fig. 6.



Witnesses

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VEGETABLE-CUTTER.

No. 911,478. Specification of Letters Patent. Patented Feb. 2, 1909.

Application filed December 9, 1907. Serial No. 405,677.

To all whom it may concern:

Be it known that I, ROBERT L. DORSEY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Vegetable-Cutters, of which the following is a specification.

This invention relates to that class of devices by means of which vegetables are cut into slices or small parts.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference characters indicate similar parts, Figure 1 is a top or plan view of a vegetable cutter embodying my present invention; Fig. 2, an under side plan view of the same; Fig. 3, a detail longitudinal sectional view on an enlarged scale, as seen when looking in the direction indicated by arrows from the dotted line 3—3 in Fig. 1; Fig. 4, a detail horizontal sectional view, as seen when looking upwardly from the dotted line 4—4 in Fig. 3, and Figs. 5 and 6 detail transverse vertical sectional views, as seen when looking in the direction indicated by the arrows from the dotted lines 5—5 and 6—6 respectively in Fig. 1.

The body of this machine consists of two grooved side bars 21 and 22, connected by transverse bars 23, to which said side bars are united by screws 24, and a floor 25 resting on said transverse bars and entering one of the grooves, 26, in the side bars. The floor is in two parts, leaving a space between for the knives, which are arranged diagonally, as shown, and the wood of the floor also runs in a diagonal direction parallel with the sides of the knife-opening. The floor 25 is secured to the cross bars 23 by means of small nails or pins 29 which are inserted at the center, as shown in Fig. 1. The floor 25 itself is somewhat narrower than the distance between the bottoms of the grooves 26, and consequently may shrink and swell somewhat without pressing upon or displacing the side bars 21 and 22. In the other grooves 27 of this body or frame is mounted the usual container box 30, within which the vegetables are placed for cutting, and which slides back and forth in said grooves 27 over the knives in operation in the usual and well known manner.

The knives 31, of which I have shown three, are each mounted on a hinged arm 32. This is preferably provided with a member which is secured to the knife blade, as by a bolt 33, while the arms themselves stand at substantially right angles with said blades and extend down alongside the side rails 21 and 22, and are mounted on pivot pins 34 carried by said side rails. At a point below the pivot pins 34 these hinged members or arms are connected to an operating bar 35, by means of pivots 36, and are thus adapted to be moved simultaneously, as it is desired to adjust their cutting edges. The adjusting bar 35 terminates in a handle 37 by means of which it may conveniently be operated. A slot 38 therein passes over a clamping screw 39. When the required adjustment is made the knives are locked in position by tightening the nut 40 on this clamping screw.

As the knives 31 are arranged diagonally in relation to the frame sides, and as the attachments are parallel therewith, the making of these attachments in the form of a hinge is of considerable importance. Rigidly attached angle pieces will not yield, but will tend to travel diagonally toward and from the side rails, and consequently will tend to bind and prevent the necessary movement of the knives. The hinging of the supporting arms to the knives, however, gives the necessary compound movement, and permits the knives to be easily manipulated, as desired, without causing the arms to interfere with their movement. This is very important in this class of devices, as the knives need to be adjusted frequently to suit the different classes of work performed on cutters of this character.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. The combination, in a vegetable cutter, of a main body, a diagonally set knife mounted in conjunction with the bottom of the main body, a pair of arms pivotally supported at the opposite ends of said knife on the main body, and a pivot and hinge connection between the pivoted arms and the adjacent ends of the knife, and means for swinging the pivoted arms and holding them in adjusted positions.

2. The combination, in a vegetable cutter, of a main body having substantially parallel sides, a diagonally set knife mounted in conjunction with the bottom of the main body,

a pair of arms pivotally supported at the opposite ends of said knife on the substantially parallel sides of the main body, a hinge connection substantially parallel with the sides of the main body and a pivotal-connection substantially at right angles to the hinge-connection, between the pivoted arms and the adjacent ends of the knife, and means for swinging the pivoted arms and holding them in adjusted positions.

3. The combination, in a vegetable cutter, of the main body, a diagonally set knife mounted in conjunction with the bottom of the main body, a pair of arms pivotally mounted upon the main body adjacent the ends of the knives to swing in planes substantially at right angles to the plane of the knife, an arm hinged to the upper end of each of the first mentioned arms on a pivot substantially parallel with the plane of the knife, a pivotal connection between each of said last mentioned arms and the adjacent end of the knife, and means for swinging the first mentioned arms and holding them in various positions of adjustment.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana.

ROBERT L. DORSEY. [L. S.]

Witnesses:
CHESTER BRADFORD,
THOMAS W. MCMEANS.