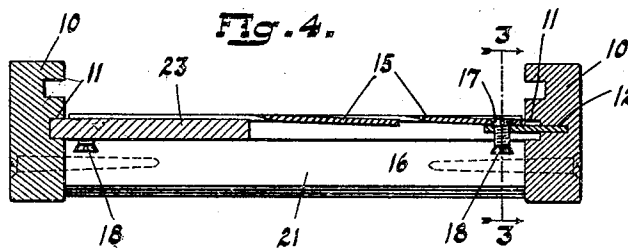
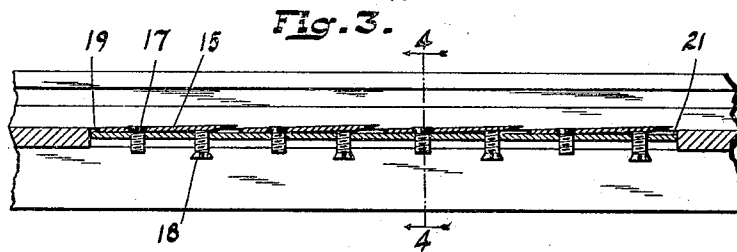
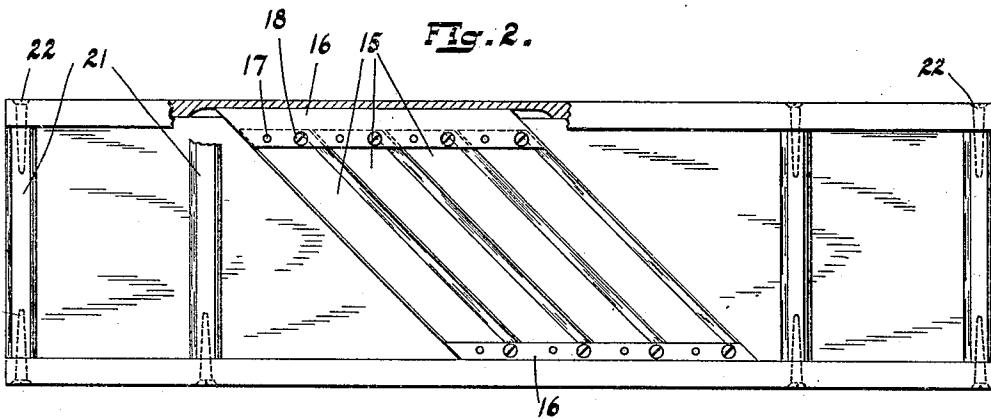
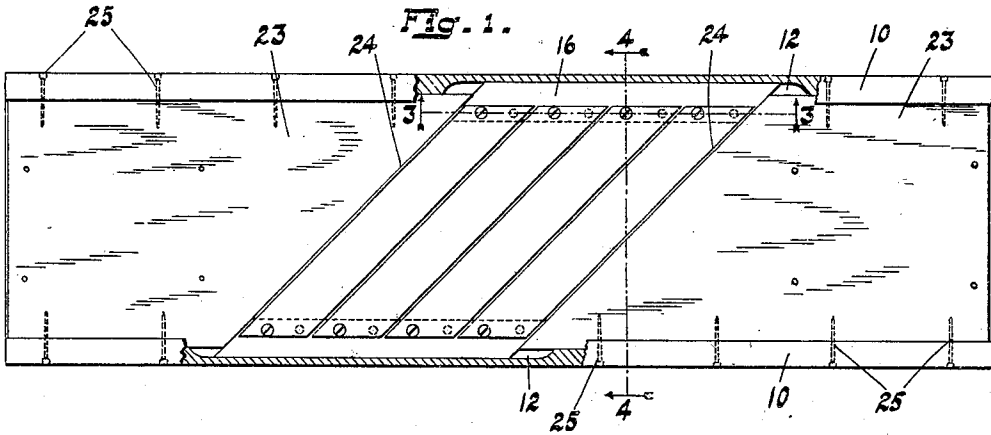


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CUTTER.

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958,377.

Patented May 17, 1910.



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UNITED STATES PATENT OFFICE.

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CUTTER.

958,377.

Specification of Letters Patent.

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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 a new and useful Cutter, of which the following is a specification.

In the manufacture of slicers for slicing vegetables, more especially cabbage to produce kraut, the effort is to produce a slicer which can be sold for a minimum sum but which, nevertheless, will be capable of a sufficient range of adjustment to make possible the production of slices of different thicknesses.

The object of my present invention is to cheapen the cost of production of a slicer which will, nevertheless, be more substantial and durable.

The accompanying drawings illustrate my invention.

Figure 1 is a top plan, in partial horizontal section of a slicer embodying my invention; Fig. 2 an under plan in partial horizontal section; Fig. 3 a section on line 3—3 of Fig. 4, and Fig. 4 a section on line 4—4 of Figs. 3 and 1.

In the drawings, 10, 10 indicate two side rails which are, in most particulars, like those now commonly in use. Each of the said rails 10 is provided on its inner face midway of its height, with a continuous runway or groove 11 and in the bottom of this groove, at an intermediate point, is a narrow elongated pocket 12. In order to facilitate the construction of the side bars the pocket 12 is formed to one side of the longitudinal middle so that, by reversing one bar relative to the other a staggered arrangement of the pockets 12 is produced and the angle of the stagger will depend upon the amount of displacement of the pocket 12 away from the longitudinal middle of the bar.

The knife element, in the present construction, differs quite radically from the knife element now commonly employed in slicers of this type in that it may be completely assembled and the knives may be adjusted with relation to each other before association with the side bars 10 and then may be readily slipped in place and retained without special retaining members.

The cutter element comprises a plurality of knives 15, two bars 16, 16, holding screws

17, and temper screws 18. The bars 16 have a total length slightly greater than the combined widths of the knives so that the rear end of the bar will project slightly beyond the rear edge of the rear knife, as clearly shown at 19 (Fig. 3), and the front end will project slightly in front of the cutting edge of the front knife, as clearly shown at 21 (Fig. 3).

A clamping screw 17 extends through each knife 15 at its rear corner and is threaded into the bar 16, the head of the clamping screw being countersunk into the thickness of the knife from the top side, as clearly shown in Figs. 3 and 4. It is, of course, possible to pass these clamping screws upwardly through bar 16 and thread them into the knife, but great care would then have to be exercised in having the screws 17 of such length that they would not project above the upper surfaces of the knives unless the grooves 11 in the side bars 10 were made deep enough to permit a covering of the screws by the said bars. This would require additional time in assembling and additional expense in the accurate production of the screws whereas the arrangement shown makes it possible to use a cheap commercial screw which will project downwardly through the bar 16, as shown.

The temper screws 18 are threaded upwardly through bar 16 one near each forward corner of each knife. The ends of bars 16 are preferably beveled so as to conform to the angle of the knives and these bars have a thickness which will fit closely in pockets 12. After the cutter element has been assembled and adjusted the two bars 16 will be slipped into the pockets 12 of two side bars 10 and the two side bars 10 connected together in properly spaced relation by means of the usual cleats 21 and fastening screws 22. Thereupon the bottom boards 23, 23, are slipped endwise into the runways 11 and the beveled ends 24 of said bottom boards brought up tightly against the ends of the cutter bars 16, these cutter bars 16 serving to definitely space boards 23 and prevent them from crowding up against the knives in such way as to interfere with their operation or adjustment. The bottom boards 23 are then secured in place by nails 25 in the usual way.

The knives 15 may be adjusted at any time by the temper screws 18, and any one of the knives may be readily withdrawn for grind-

ing or replacement by withdrawing the two holding screws 17. Some of the nails 25 may be placed very close to the beveled edge of the bottom boards 23 and, as said ends engage the ends of the bars 16, any swelling of the bottom boards, by reason of moisture absorbed from the vegetables, cannot result in a cramping or distortion of the knives.

I claim as my invention:—

- 10 1. A vegetable slicer comprising a pair of side bars each having a pocket formed in its inner surface, a cutter element comprising a pair of bars adapted to seat each in a pocket of a side bar, one or more knives, 15 connections between said knives and the cutter bars, and bottom boards arranged between the side bars and the ends of the cutter bars and abutting against the ends of said cutter bars.
- 20 2. A vegetable slicer comprising a pair of side bars each having a pocket formed in its inner surface, a cutter element comprising a pair of bars adapted to seat each in a pocket of a side bar, one or more knives, 25 adjusting connections between said knives and the cutter bars, and bottom boards arranged between the side bars and the ends of the cutter bars and abutting against the ends of said cutter bars.
- 30 3. A cutter element for slicers comprising a pair of bars, a plurality of knives, clamping screws connecting the rear corners of each knife with the two bars, temper screws threaded upwardly through the bars 35 and engaging the knives in front of their clamping screws, a pair of side bars 10 each having a pocket 12 formed in its inner face to receive a cutter bar, and each of said side bars 10 also having a runway 11 formed in its inner face, and bottom boards 23 secured in said runways. 40
4. A cutter element for slicers comprising

a pair of bars, a plurality of knives having a combined width, when arranged on the side bars, slightly less than the length 45 of the bars so that the bars will project beyond the knives, clamping screws connecting the rear corners of each knife with the two bars, temper screws threaded upwardly through the bars and engaging the knives 50 in front of their clamping screws, a pair of side bars 10 each having a pocket 12 formed in its inner face to receive a cutter bar, each of said side bars 10 also having a runway 11 formed in its inner face, and 55 bottom boards 23 secured in said runways and abutting at their inner ends against ends of the cutter bars.

5. A cutter element for slicers comprising a pair of bars, a plurality of knives having 60 a combined width, when arranged on the side bars, slightly less than the length of the bars so that the bars will project beyond the knives, clamping screws connecting the rear corners of each knife with the two bars, 65 temper screws threaded upwardly through the bars and engaging the knives in front of their clamping screws, a pair of side bars 10 each having a pocket 12 formed in its inner face to receive a cutter bar, each of 70 said side bars 10 also having a runway 11 formed in its inner face, and bottom boards 23 secured in said runways, and abutting at their inner ends against ends of the cutter bars. 75

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this tenth day of February, A. D. one thousand nine hundred and ten.

ROBERT L. DORSEY. [L. S.]

Witnesses:

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