Dec. 10, 1929. J. A. ANDRUSIS 1,739,342

AUXILIARY KNIFE FOR VEGETABLE SLICERS

Filed Feb. 7, 1928

Fig. 1.

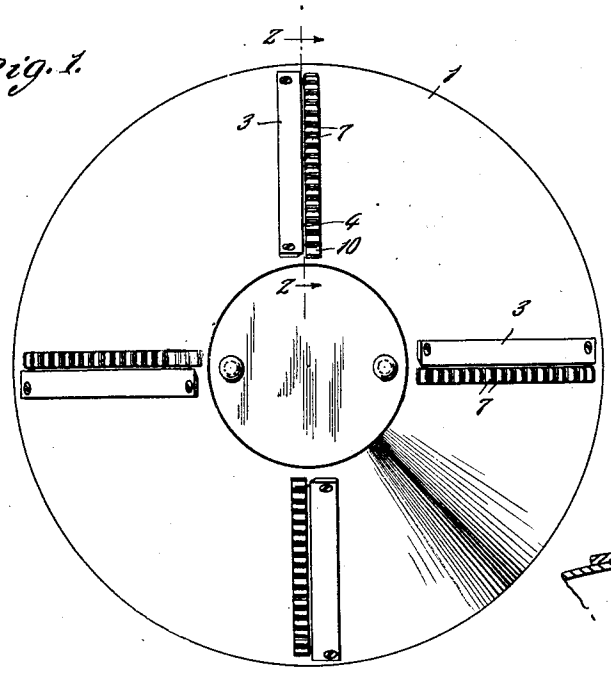


Fig. 8.

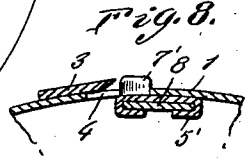


Fig. 3.

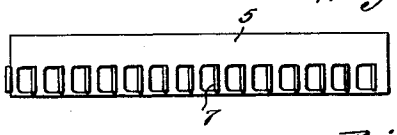


Fig. 4.

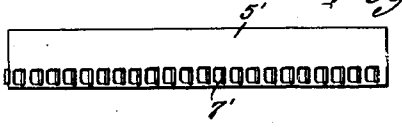


Fig. 2.

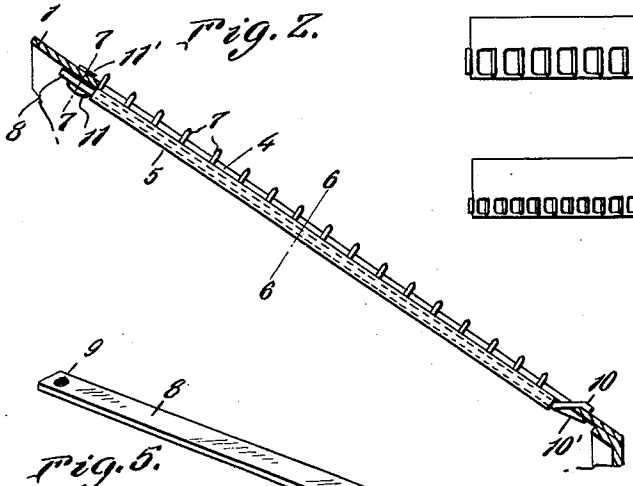


Fig. 5.

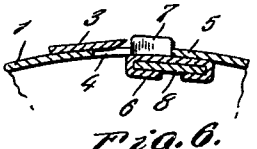


Fig. 6.

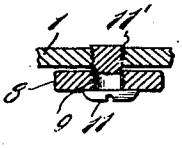


Fig. 7.

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UNITED STATES PATENT OFFICE

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AUXILIARY KNIFE FOR VEGETABLE SLICERS

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This invention relates to cutting means for vegetable slicing devices, the general object of the invention being to provide means associated with each slicing knife of the device for making a plurality of cuts in the article being sliced so that the slices will be divided into a plurality of small strips or pieces.

Another object of the invention is to provide a channel-shaped member on which is formed each set of cutting blades, with a supporting strip for each member which is detachably connected with the rotary member of the slicer.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a front view of the frusto-conical rotary member of a slicing device, with the slicing and cutting blades thereon.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a view of one of the channel-shaped members on which is formed a group of cutting blades.

Figure 4 is a similar view, but showing the blades of smaller dimensions.

Figure 5 is a view of the supporting member for the channel-shaped member.

Figure 6 is a section on line 6—6 of Figure 2.

Figure 7 is a section on line 7—7 of Figure 2.

Figure 8 is a view similar to Figure 6, but showing the blade carrying member of Figure 4 substituted for that shown in Figures 3 and 6.

In the drawings, the numeral 1 indicates the rotary member of a vegetable slicer which is of frusto-conical shape and is supported in a suitable frame in such a manner that when vegetables or other articles are pressed against the exterior of the member, the slicing blades 3 thereon will cut the article into slices, these blades being detachably connected with the member 1 and extending over slots 4 formed therein.

In carrying out my invention, I provide a plurality of channel-shaped members 5, the flanges of which are turned inwardly, as shown at 6, and each member has a number of knives 7 thereon which are preferably formed by cutting the member and turning the portions between the cuts at right angles to the member, these turned-up portions being beveled to form cutting edges. I also provide a supporting strip 8 for each member 5, this strip being passed through the channel member with its ends projecting therefrom. One end is provided with a hole 9 so that a screw 11 can pass through the same into a threaded hole in the rotary member 1 to detachably fasten this end of the strip to said member 1. The other end of the member is cut longitudinally and the metal on one side of the cut is offset to form a tongue 10 so that the outer end wall of each slot 4 will pass between the offset tongue and the straight tongue 10′ to support this end of the strip, as clearly shown in Figure 2. It will, of course, be understood that the tongues are first placed in engagement with the end wall of the slot and then the other end of the strip is fastened by the screw 11 to the member 1.

From the foregoing it will be seen that when a knife carrying member 5 is placed in front of each slicing blade 3 on the member 1, the knives 7 of said member will extend through each slot 4 and these knives will score the article before the article engages the slicing blade so that the slice cut by the slicing blade will be divided into small strips or pieces. I prefer to provide a number of sets of these knife carrying members 5, the knives of one set being of different dimensions from the knives of the other set or sets. For instance, Figure 3 shows the member carrying knives 7 which are spaced farther apart and are of larger dimensions than the knives 7′ of the member 5′. The knives 7 of member 5 will project beyond the slicing knife, as shown in Figure 6, but the knives 7′ on the member 5′ will be flush with the slicing

knife, as shown in Figure 8. The arrangement shown in Figure 6 will cut the material into strips, while that shown in Figure 8 will cut the material into small pieces.

I prefer to form each screw 11 with its shank having a threaded outer part, as shown at 11′ and the inner part unthreaded and of smaller diameter than the outer part so that the screw will have free movement in the hole of each strip 8, but the threaded part must be threaded through the said hole in placing the screw in position with the threaded part 11′ engaging the threads of the opening in the member 1. This will permit the strips to be easily and quickly fastened to the member 1 and removed therefrom.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

It is to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. In combination with a rotary member of a vegetable slicer having slots therein, knives connected with one side of the member and extending over the slots, supports connected with the opposite side of the member and extending over the slots, each support and each knife being arranged at opposite sides of each slot and a plurality of knives carried by each support, said knives extending through each slot and arranged at right angles to the first mentioned knives.

2. In combination with a rotary member of a vegetable slicer having slots therein, slicing knives connected with one side of the member and extending over the slots, supports connected with the opposite side of the member and extending over the slots, each support and each knife being arranged at opposite sides of each slot, a plurality of knives carried by each support, said knives extending through each slot and arranged at right angles to the slicing knife and means for detachably connecting the supports to the rotary member.

In testimony whereof I affix my signature.

JOHN A. ANDRUSIS.