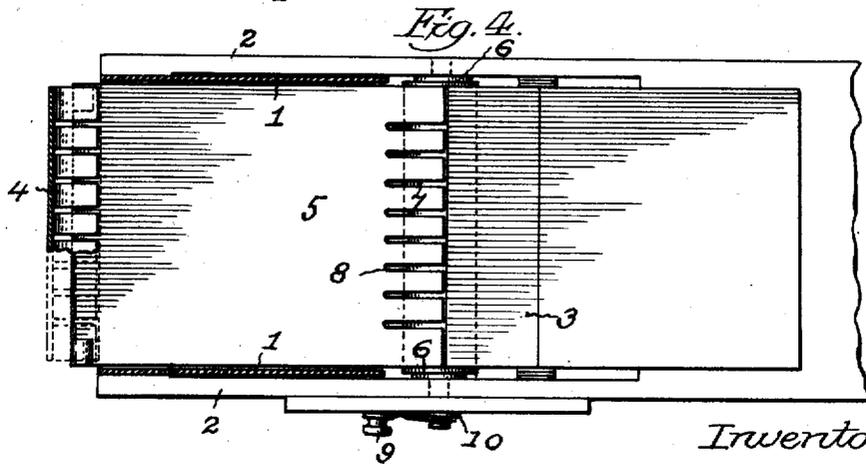
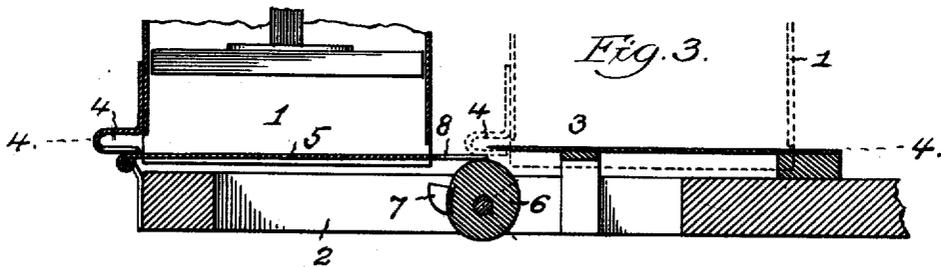
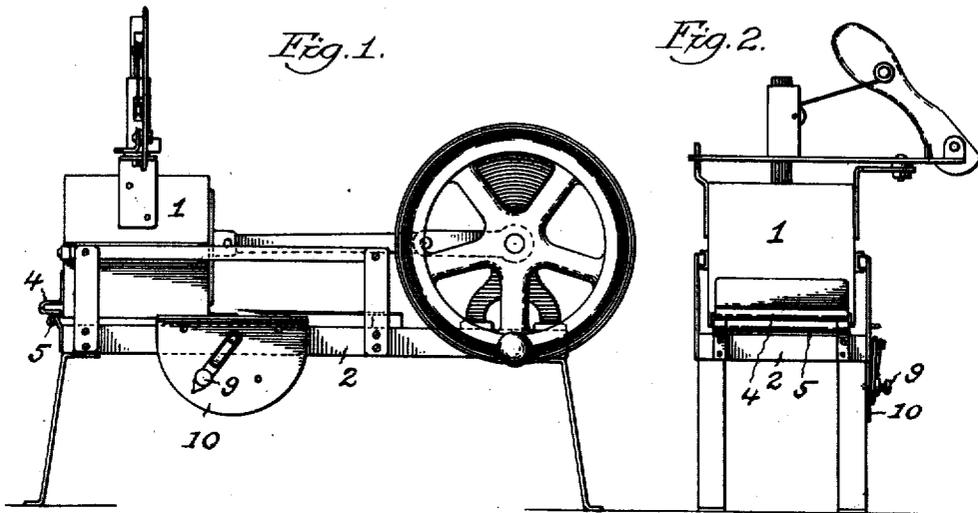


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M. KIRNBAUER  
FRUIT AND VEGETABLE SLICER

Filed May 26, 1923



Inventor:  
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by Robert Ruml,  
ATTY.

# UNITED STATES PATENT OFFICE.

MICHAEL KIRNBAUER, OF FOREST PARK, ILLINOIS.

FRUIT AND VEGETABLE SLICER.

Application filed May 26, 1923. Serial No. 641,794.

*To all whom it may concern:*

Be it known that MICHAEL KIRNBAUER, a citizen of the Republic of Austria (who has declared his intention of becoming a citizen of the United States of America), residing at Forest Park, in the county of Cook and State of Illinois, has invented certain new and useful Improvements in Fruit and Vegetable Slicers, of which the following is a specification.

This invention relates to that type of slicing machines in which relative movement between the material in a holding hopper and a cutting or slicing blade, in a rectangular plane is adapted to effect the slicing operation, an example of which constitutes the subject matter of my prior Patent No. 1,442,222, dated January 16, 1923.

The various objects of the present improvement are: to provide a structural formation and combination of parts, with which the material supporting platform can be adjusted in relation to the cutting edge of the cutter blade to attain the required thickness of the sliced material produced. Also to provide a formation and arrangement of parts whereby a complete severance of the slices of material is attained in an effective manner. Also to provide in connection with the adjusting means of the material supporting platform, supplementary means for effecting a shreading of the material simultaneous with the slicing of the same, all as will hereinafter more fully appear. In the accompanying drawing:—

Fig. 1, is a side elevation of a slicing machine having the present improvements applied.

Fig. 2, is an end elevation of the same.

Fig. 3, is a detail longitudinal sectional elevation of the slicing mechanism.

Fig. 4, is a detail horizontal section on line 4,—4, Fig. 3.

Like reference numerals indicate like parts in the several views.

In the drawing, the present improvements are shown applied to the type of machines forming the subject matter of prior Patent No. 1,442,222, dated January 16, 1923, in which a holding hopper 1, has rectilinear reciprocation upon a stationary bed plate 2, carrying a transversely arranged cutting or slicing blade 3. In the present construction the blade 3 is fixedly secured to the bed plate 2, and the open bottom hopper 1 is pro-

vided at the end remote from the blade 3 with a transverse recess or channel 4 adapted to receive the cutting point of said blade, so that the same may move past the remote wall of the hopper 1 and attain an effective and complete slicing action, as illustrated in Fig. 3.

In Figs. 3 and 4, the numeral 5 designates a plate or platform hinged at one end to the bed plate 2, with the other and movable end arranged in adjacent relation to the blade 3 aforesaid. The platform 5 is arranged beneath the lower end of the holding hopper 1, to provide a support for the material in said hopper and maintain said material in proper relation to the cutter blade 3, and so that by a vertical adjustment of the movable end of said platform 5, the thickness of the slice of the material being cut can be varied as required. With a view to an accurate and effective adjustment of the platform 5, means as follows are provided.

6, designates a drum pivoted eccentrically in the bed plate 2 and extending in a transverse direction beneath the movable end of the platform 5, and adapted by a turning adjustment to attain a corresponding vertical adjustment of the platform 5 with relation to the cutter blade 3.

In the preferred construction shown in Figs. 3 and 4, a transverse series of auxiliary cutters or knives 7 are secured to the periphery of the drum 6, and are adapted in a turning adjustment of said drum to be brought into the path of the material to be sliced, and into a corresponding series of slots 8 in the movable end of the platform 5, so as to divide or shread the material during the main slicing action of the cutter blade 3.

9, designates an operating handle or crank secured to the carrying shaft of the drum 6, for effecting the required turning adjustment of said drum, and in the construction shown in Figs. 1 and 2, the handle 9 moves in front of an indicator dial 10 to indicate the different adjustments to which the mechanism is to be set.

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

1. In a slicing machine, the combination of a cutter carrying frame and a holding hopper connected together for movement in

relation one to the other, a platform hinged to the carrying frame and forming a support for the material in the hopper, a transverse cutter blade fixedly secured to the carrying frame in adjacent relation to the movable end of said platform, and means for effecting a vertical adjustment of the movable end of said platform, the hopper having at its remote lower end an offset return bend forming a receiving channel for the cutting point of the blade aforesaid.

2. In a slicing machine, the combination of a cutter carrying frame and a holding hopper connected together for movement in relation one to the other, a platform hinged to the carrying frame and forming a support for the material in the hopper, a transverse cutter blade fixedly secured to the carrying frame in adjacent relation to the movable end of said platform, and means for effecting a vertical adjustment of the movable end of said platform, the same comprising a drum arranged beneath the movable end of said platform and journalled

eccentrically in the carrying frame aforesaid. 25

3. In a slicing machine, the combination of a cutter carrying frame and a holding hopper connected together for movement in relation one to the other, a platform hinged to the carrying frame and forming a support for the material in the hopper, a transverse cutter blade fixedly secured to the carrying frame in adjacent relation to the movable end of said platform, and means for effecting a vertical adjustment of the movable end of said platform, the same comprising a drum arranged beneath the movable end of said platform and journalled eccentrically in the carrying frame aforesaid, said drum having a transverse series of knives secured to its periphery and the movable end of the platform having a series of slots to receive said knives. 30 35 40

Signed at Chicago, Illinois this 24th day of May 1923.

MICHAEL KIRNBAUER.