

J. N. WINANS.
VEGETABLE SLICER.
APPLICATION FILED APR. 8, 1909.

945,889.

Patented Jan. 11, 1910.
2 SHEETS—SHEET 1.

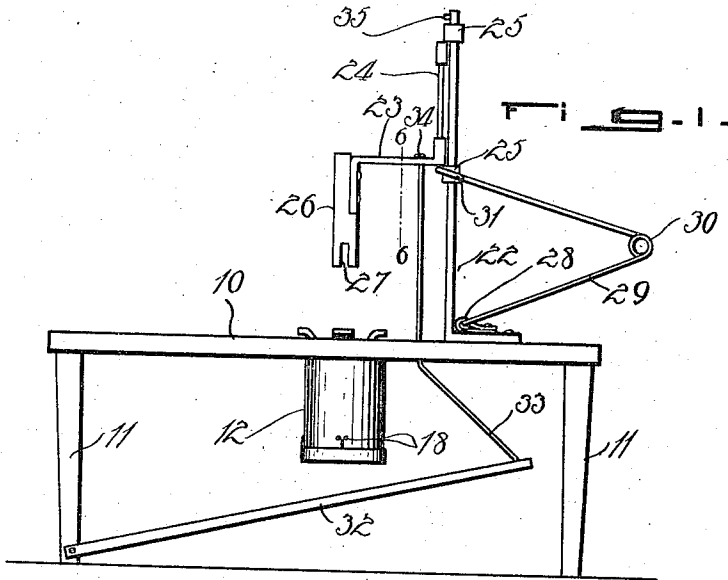
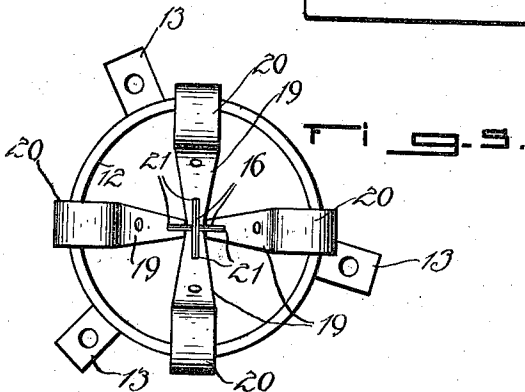
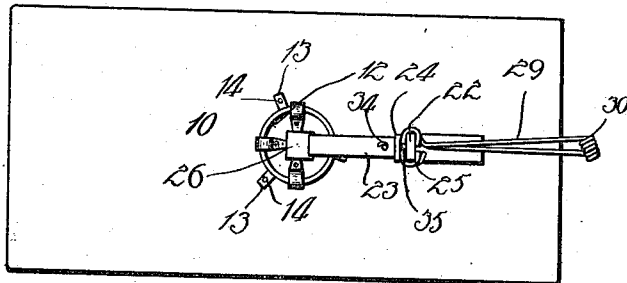


FIG. 2.



Witnesses

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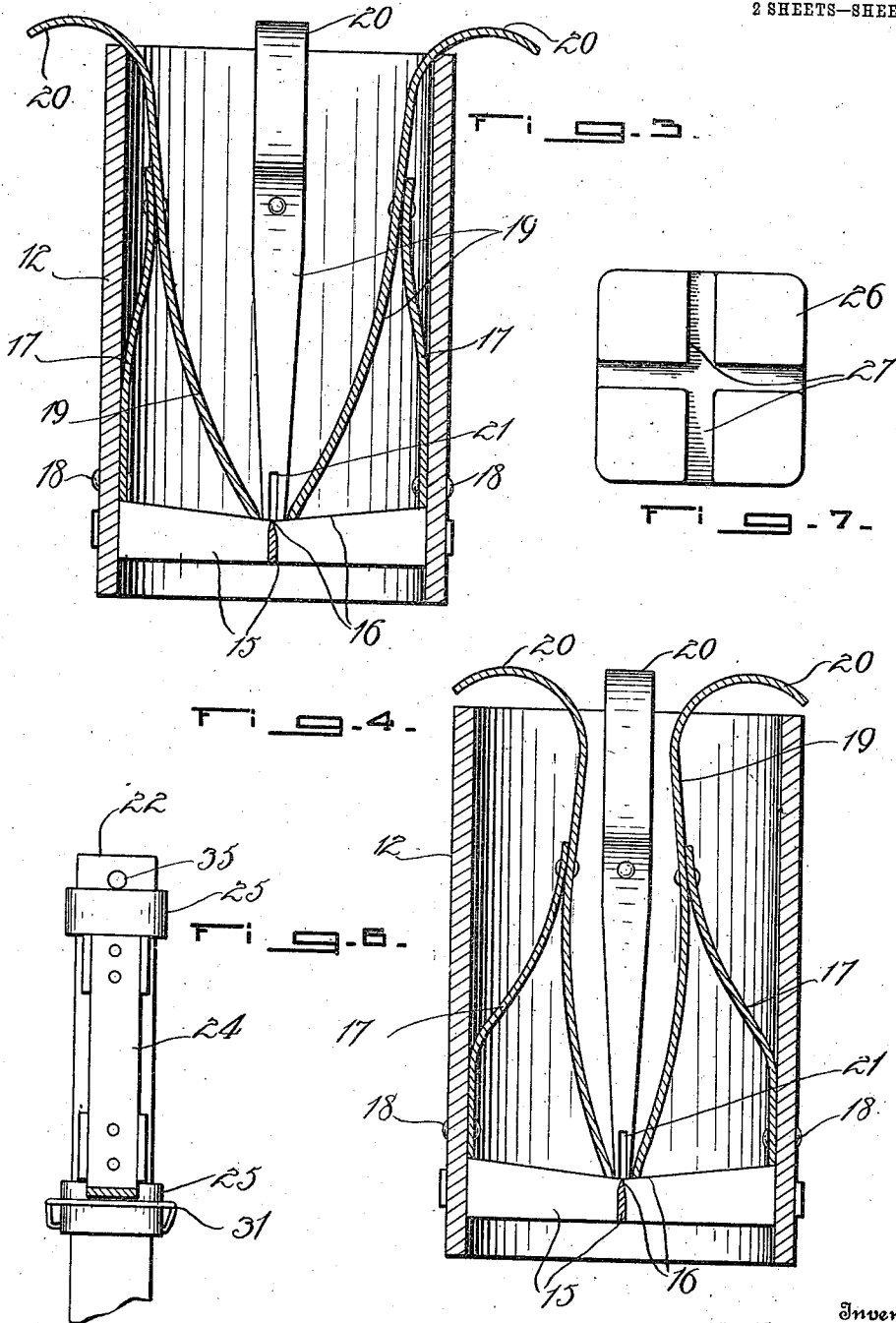
Attorneys

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UNITED STATES PATENT OFFICE.

JAMES N. WINANS, OF FERGUS FALLS, MINNESOTA.

VEGETABLE-SLICER.

945,889.

Specification of Letters Patent. Patented Jan. 11, 1910.

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To all whom it may concern:

Be it known that I, JAMES N. WINANS, a citizen of the United States, residing at Fergus Falls, in the county of Ottertail, State of Minnesota, have invented certain new and useful Improvements in Vegetable-Slicers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to a vegetable slicer and more particularly to the class of machines for cutting into slices vegetables, such as potatoes and apples.

The primary object of the invention is the provision of a machine of this character in which a vegetable to be sliced is supported within a receiver directly above a plurality of cutter blades so as to be subsequently sliced thereby, and a reciprocating plunger adapted to act upon the vegetable to enable the slicing thereof by the cutter blades.

Another object of the invention is the provision of a vegetable slicer of this character in which are mounted a plurality of yieldable supporting fingers for holding a vegetable centrally above a plurality of cutter knives fixedly held within a receiver, and which supporting fingers are readily and easily detached so that in event of the breaking of any one of the same it can be replaced by a new one, and manually operable means for acting upon a vegetable supported by the yieldable fingers to effect the slicing thereof by the cutting blades within the receiver.

A further object of the invention is the provision of a vegetable slicer which is simple in construction, durable, thoroughly efficient in operation and inexpensive in the manufacture.

With these and other objects in view the invention consists in the construction, combination and arrangement of parts, as will be hereinafter more fully described in detail, illustrated in the accompanying drawings which disclose the preferred form of embodiment of the invention to enable those skilled in the art to carry the invention into practice, and as brought out in the claim hereunto appended.

In the drawings:—Figure 1 is a side elevation of the invention. Fig. 2 is a top plan view thereof. Fig. 3 is a vertical sectional view through the receiver showing the parts

in position before operation. Fig. 4 is a similar view showing the parts in position after operation. Fig. 5 is a top plan view of the receiver. Fig. 6 is a sectional view on the line 6—6 of Fig. 1. Fig. 7 is an end elevation of the plunger head.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

In the drawings the numeral 10 designates a bench or table having at opposite ends the usual supporting legs 11 and containing in its top a suitable opening in which is fitted the mouth portion of a cylindrical receiver 12, which latter has formed at its mouth portion bearing ears 13, the same secured to the table by fasteners 14, so as to mount the receiver at its mouth portion flush with the upper surface of the table or bench top.

Mounted in the lower end of the receiver 12, are cutting blades 15, the same crossing each other at their central points and are formed with V-shaped upper cutting edges 16, extending throughout the length thereof. Secured within the receiver are inwardly converging leaf springs 17, the lower ends of which are detachably mounted by bolt fasteners 18, to the receiver. Secured to the upper ends of the spring 17 are supporting spring fingers 19, the upper ends of which extend above the mouth portion of the receiver and are formed with outwardly and downwardly curved extremities 20, while the opposite lower ends converge inwardly toward each other and are formed with central bifurcations 21, to form forked extremities straddling the cutter blades 15, and are guided thereby while supporting a vegetable in the receiver, and in this manner the said supporting fingers are prevented from displacement out of normal alining relation to each other.

Secured to the table top and rising vertically therefrom is a guide bracket or standard 22, having slidably connected thereto a reciprocating carrier the same being in the form of an arm 23, secured at one terminal to a slide plate 24, the opposite ends of which are formed with clamping ears 25, embracing the standard 22, to slidably connect the carrier thereto. Fixed to the arm 23 at its other terminal and depending therefrom is a plunger head or block 26, provided with crossed slots 27, adapted to allow the cutter blades 16, to enter so that the plunger can descend far enough relative to the said

blades to press a potato or other vegetable down to be cut into pieces and the pieces pushed between the cutters.

Connected to an eye 28 at the lower end 5 of the standard 22, is one end of a spring member 29, the same formed with a coil 30, and its opposite end bent to form a loop 31, to encircle the carrier and having its bearing against the under face of the arm 23, so as 10 to hold the carrier under tension and to enable the said carrier to be returned or reset after each operation.

Pivoted to one of the legs 11, of the table is a foot treadle 32, to which is connected one 15 end of a flexible wire or cable 33, which latter has its opposite end connected through the medium of an eye 34, to the arm 23, so that upon application of foot power to the treadle it will operate the plunger block to 20 push a vegetable in the receiver against and through the knives for the slicing of the vegetable.

The carrier is limited in its upward stroke

by a stop lug 35, formed at the upper end of the standard. 25

From the foregoing description, the construction and operation of the invention will be clear, therefore a more extended explanation has been omitted.

What is claimed is:— 30

In a vegetable slicer, a receiver, crossed cutting elements secured within the receiver at its lower end, inwardly converging leaf springs detachably mounted within the receiver, supporting spring fingers fixed to the 35 free ends of said spring fingers and having bifurcated lower extremities engaging the cutter elements, and a reciprocating plunger adapted to push a vegetable through the cutter elements. 40

In testimony whereof, I affix my signature, in presence of two witnesses.

JAMES N. WINANS.

Witnesses:

F. J. EVANS,

HENRY G. DANE.