

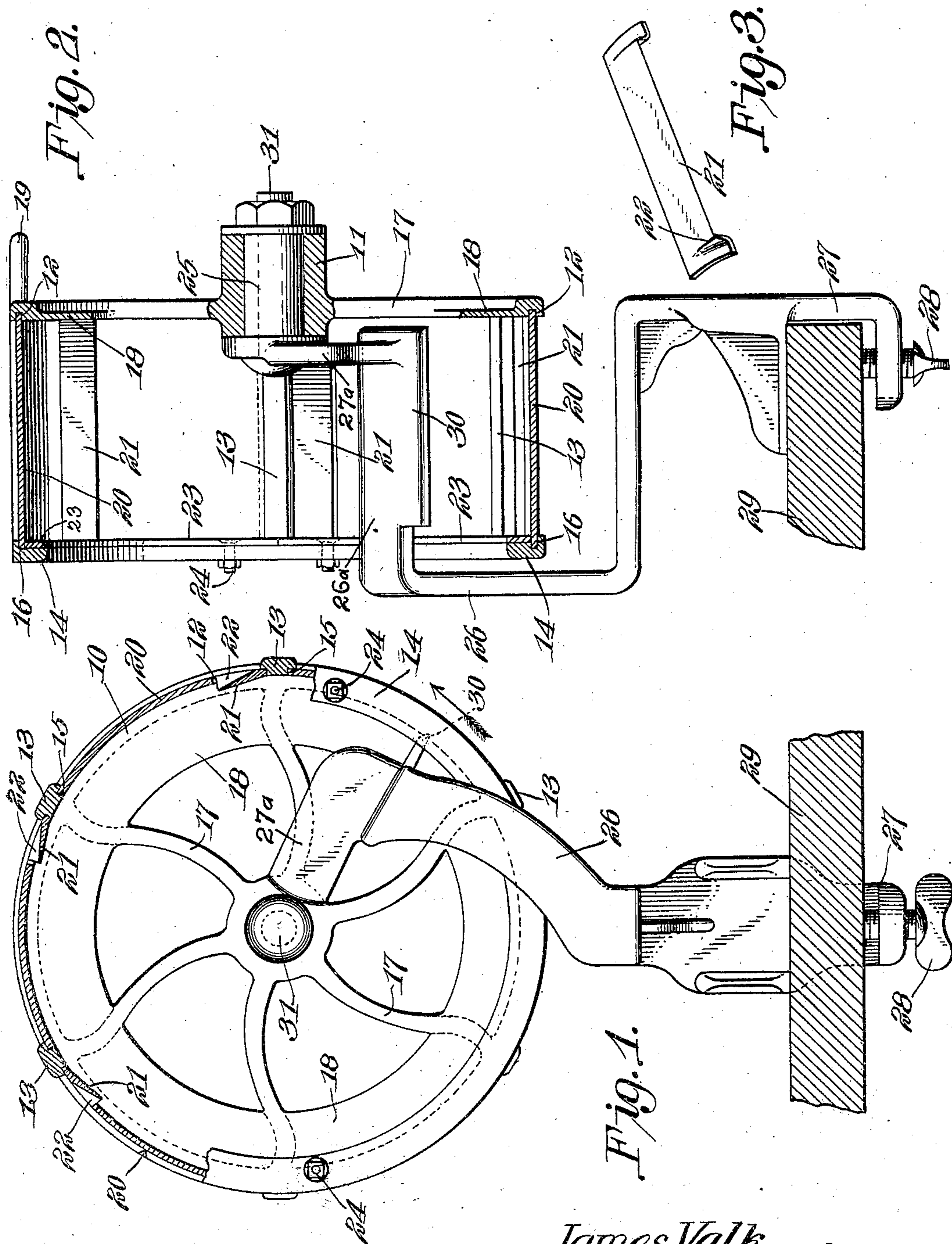
No. 775,639.

PATENTED NOV. 22, 1904.

J. VALK.
VEGETABLE CUTTER.

APPLICATION FILED MAR. 5, 1904.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES VALK, OF LARNED, KANSAS.

VEGETABLE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 775,639, dated November 22, 1904.

Application filed March 5, 1904. Serial No. 196,682. (No model.)

To all whom it may concern:

Be it known that I, JAMES VALK, a citizen of the United States, residing at Larned, in the county of Pawnee and State of Kansas, have
5 invented a new and useful Vegetable-Cutter, of which the following is a specification.

This invention relates to devices employed for cutting or slicing vegetables and similar products and material of various kinds and
10 for any desired purpose, and has for its object to improve the construction and produce a device of this character whereby vegetables may be rapidly and uniformly sliced with the expenditure of the minimum of labor and time.

15 With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

20 In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and
25 general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages, and the right is therefore reserved of making all the changes and modifications which fairly fall within the scope of the invention and the claims made therefor.
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35 In the drawings thus employed, Figure 1 is a front elevation, partially in section. Fig. 2 is a sectional side elevation. Fig. 3 is a perspective view of one of the cutting-knives detached.
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The improved device consists of a base member 10, preferably circular, and with a central hub 11, by which the device is rotatably mounted. The base member is provided with a
45 groove 12, concentric to the hub 11 in its inner face and connected by spaced ribs 13 to an annular frame 14, the ribs having longitudinal recesses 15 in their edges continuous of and intersecting the groove 12. The frame 14 is
50 provided with a concentric rib 16 in alignment

with the outer wall of the groove 12. By this means a cylindrical frame is formed open on one side through the annular frame 14. The base member 10 will preferably be formed with radiating spokes 17 and a rim-flange 18
55 and provided with an operating-handle 19, and the parts thus described may be formed in one single casting or built up from separate parts, as preferred. The spaced ribs and spaced members 10 to 14 thus form a plurality of spaced segmental frames or panels in which segmental plates 20, preferably metal, are supported, together with a corresponding number of cutting blades or knives 21, the latter having segmental ends 22 for engaging
60 the groove 12 at one end and bearing against the inner faces of the frame 14 and its rib 16 at the other end, while the edges of the plates 20 and cutters 21 engage the recesses 15 of the adjacent ribs 13.
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Segmental binder-strips 23 are removably secured, as by screws 24, against the inner face of the frame 14 and bearing against the inner faces of the segmental plates 20 and segmental ends 22 of the cutter members 21. By
70 this means the segmental plates and cutters are firmly secured in place and can be readily detached when required for renewal or repairs or for substituting other forms of cutting-blades, as hereinafter more fully described.
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The portion of the device thus far described forms the receptacle for the vegetables to be sliced and will be mounted for rotation by its hub 11 upon a stud 25 upon a frame 26, the frame having a clamp portion 27 and clamp-
80 screw 28, by which the device may be supported from a table, shelf, or other convenient stationary structure, (indicated at 29.) The frame 26 is provided at its upper end with a laterally-extending arm 26^a, having a downwardly-extending flange 30, which constitutes a stop or detent for material which is placed in the cutter-carrying drum or casing to be operated upon. Said arm 26^a is provided at its inner end with an upwardly-extending
85 bracket 27^a, from which the stud 25 extends laterally to form a bearing for the said cutter-carrying drum. The hub 11 will be held on the stud by a nut 31, so that it can be readily detached when required. By this arrange-
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ment it will be obvious that when vegetables or other products or material are placed in the receptacle and the latter is rotated in the direction of the arrow the vegetables will be
5 carried against the stop-plate 30 and subjected to the action of the cutters and rapidly reduced to thin slices, the slices falling through the spaces between the cutters and the adjacent segmental plates 20 into a suitable re-
10 ceiver. The action will be continuous as long as the vegetables are supplied and the rotation maintained.

The device is self-feeding and requires no attention from the operator except to rotate
15 the receptacle and keep it supplied with products to be reduced.

By this simple device vegetables of various kinds and certain kinds of fruits may be rapidly cut into slices of uniform thickness.

20 The device may be constructed of any required capacity, but will preferably be of a size adapted for domestic use.

The plates 20 and cutters 21, as above noted, are easily removable for renewal or repairs
25 or for permitting the insertion of cutters of different forms or for cutting slices of different thicknesses.

The device can be manufactured at comparatively small expense and will be found very
30 convenient and practical for the purposes described.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In a vegetable-cutter a drum including a 35 circular base having annular grooves in its inner surface and provided with a hub, a ring having an annular flange, connecting-rods, plates engaging the groove of the base and abutting upon the flange of the ring, cutters 40 having segmental ends engaging the groove of the base and abutting upon the flange of the ring, and segmental binding-strips removably secured to the ring and abutting upon the spacing-plates and the ends of the cutters. 45

2. In a vegetable-cutter, the combination with a cutter-carrying drum having inwardly-facing cutters and provided with a hub on one side thereof, of a supporting-frame having a horizontally-disposed arm extended into the 50 open end of the drum and provided with a stop-flange, said arm being provided at its inner or free end with an upwardly-projecting spindle-carrying bracket supporting the hub of the drum. 55

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES VALK.

Witnesses:

HENRY J. MINOR,
WILLIAM F. HAAG.