

No. 639,852.

Patented Dec. 26, 1899.

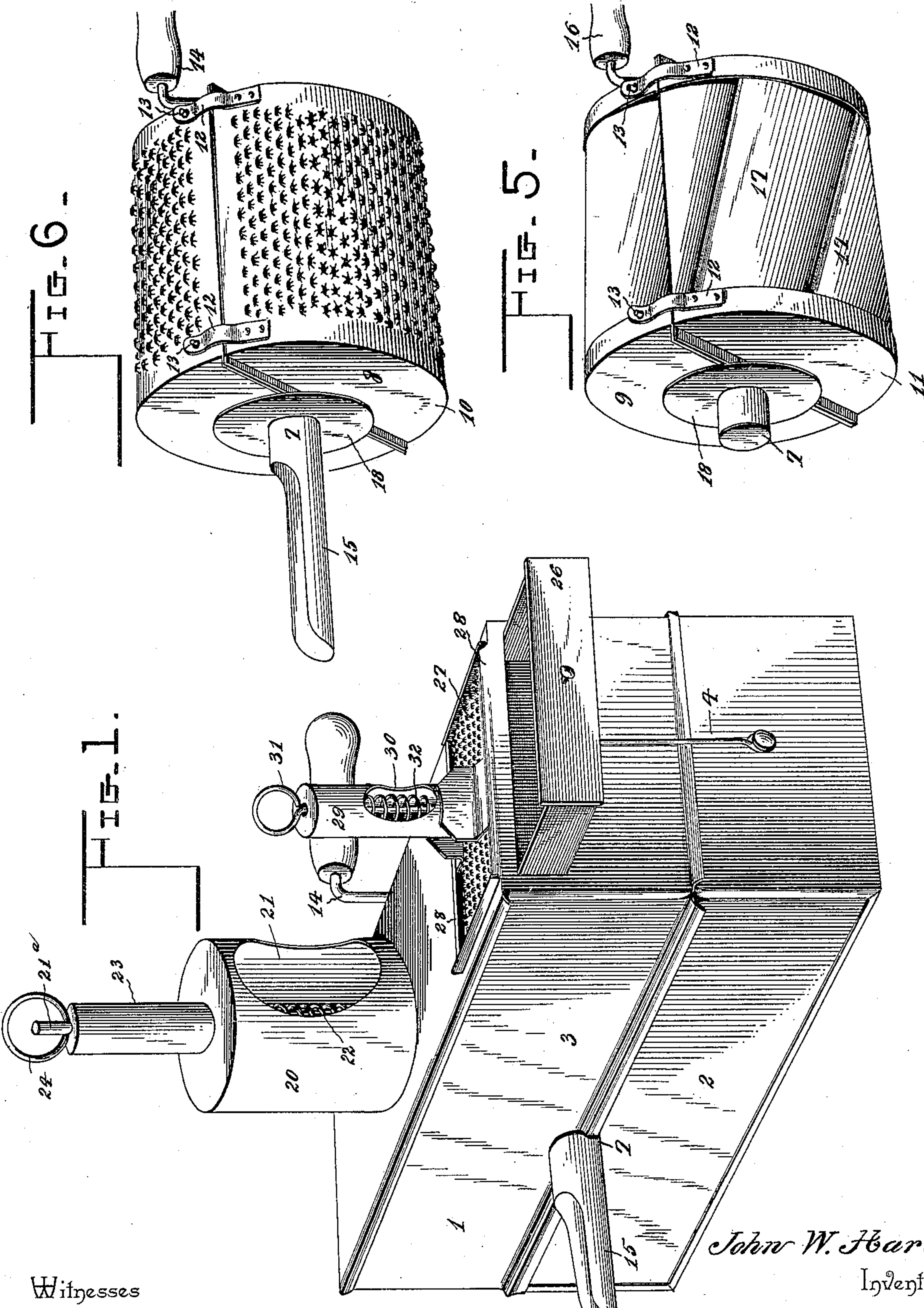
J. W. HART.

SLICER AND GRATER FOR VEGETABLES, FRUITS, &c.

(Application filed Mar. 28, 1898.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
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By his Attorneys,

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*John W. Hart.*  
Inventor

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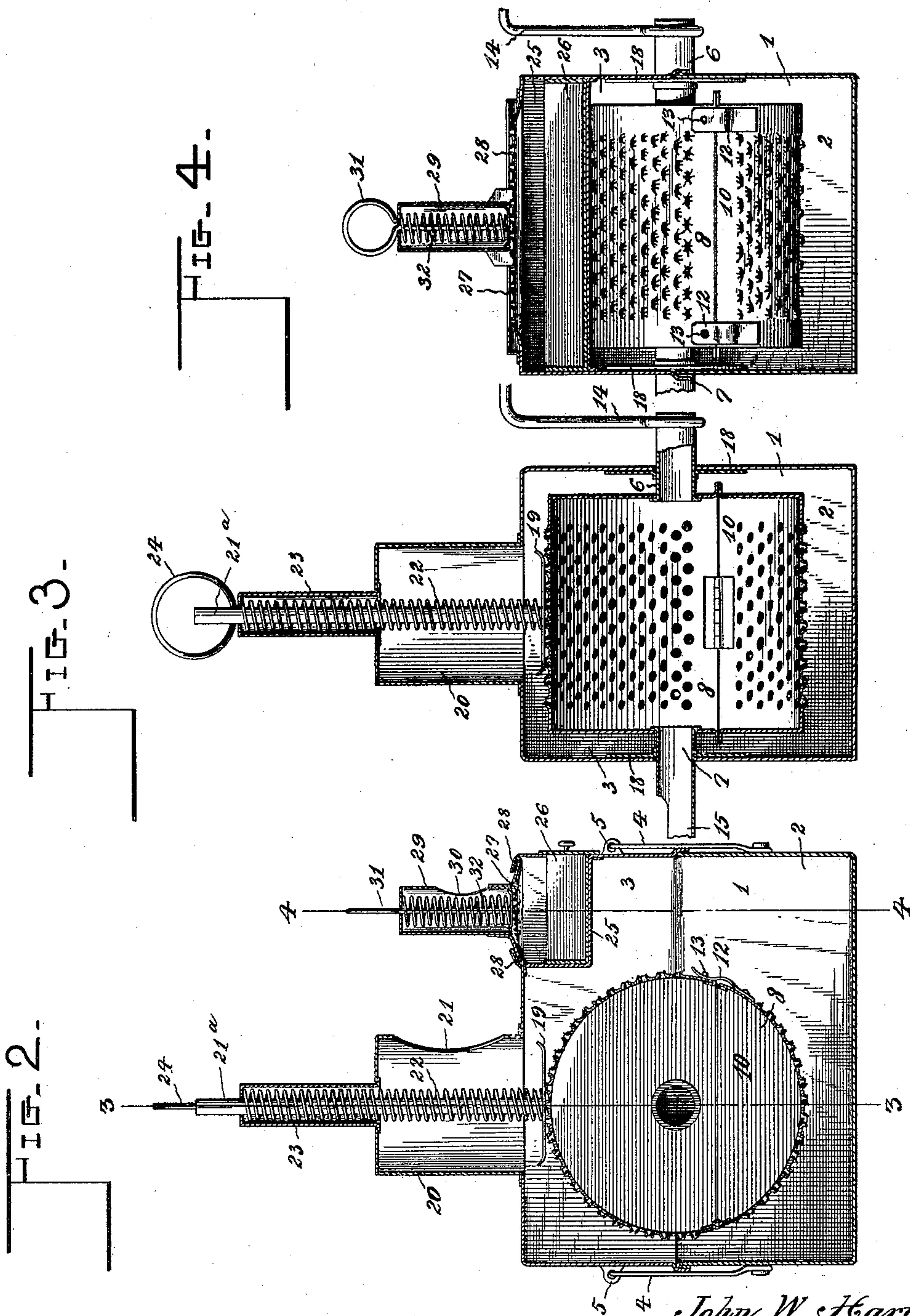
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2 Sheets—Sheet 2.



John W. Hart.  
Inventor

Witnesses

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By his Attorneys,

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# UNITED STATES PATENT OFFICE.

JOHN W. HART, OF IOLA, KANSAS, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO WILLIAM WEAVER, OF SAME PLACE.

## SLICER AND GRATER FOR VEGETABLES, FRUITS, &c.

SPECIFICATION forming part of Letters Patent No. 639,852, dated December 26, 1899.

Application filed March 28, 1898. Serial No. 675,438. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. HART, a citizen of the United States, residing at Iola, in the county of Allen and State of Kansas, have invented a new and useful Slicer and Grater for Vegetables, Fruit, &c., of which the following is a specification.

The invention relates to improvements in slicers and graters for vegetables, fruit, and the like.

The object of the present invention is to improve the construction of slicers and graters and to provide a simple, inexpensive, and efficient device adapted to be readily arranged for slicing or grating fruit, vegetables, nutmegs, &c., and capable of enabling apples to be readily cored.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a device constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view on line 3 3 of Fig. 2. Fig. 4 is a similar view on line 4 4 of Fig. 2. Fig. 5 is a perspective view of the slicing-cylinder. Fig. 6 is a perspective view of the grating-cylinder, showing the apple-corer.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

1 designates a sheet-metal casing rectangular in cross-section and composed of a lower section 2 and an upper section 3, which is detachably secured upon the lower section by means of hooks 4, pivoted to the lower section at the ends thereof and engaging eyes 5 of the upper section 3. The lower section 2 is provided at opposite sides with bearing-recesses adapted to receive journals 6 and 7 of a grating-cylinder 8 or the journals of a slicing-cylinder 9. The grating-cylinder, which is provided with a suitable grating-surface, is also provided with a hinged section 10, and the slicing-cylinder has a similar section 11, and each of these hinged sections is provided at its free edge with spring-catches 12, having perforations or openings

and adapted to engage lugs or projections 13 of the body portion of the cylinder. The hinged section is adapted to be opened for the removal of the material grated or sliced.

One of the journals is provided with a crank-handle 14, and the other journal of the grating-cylinder is provided with a substantially semicylindrical extension 15, constituting an apple-corer and adapted to be introduced into an apple and to cut out the core by rotating the cylinder. After the core is severed from an apple the latter may be readily removed from the corer, which will retain the core. The next time the corer is introduced into an apple the first-severed core will be forced into the cylinder which receives the cores, and after the operation of coring has been completed the cylinder may be readily emptied. The slicing-cylinder is provided with a crank-handle 16 similar to the grating-cylinder, and it has a series of blades 17, arranged at intervals on its periphery and disposed at an angle, so as to operate with a shear cut.

Each of the journals is provided with a disk 18, which is located a short distance from the adjacent end of the cylinder and is adapted to space the same from the casing to prevent it from binding against the same while it is being rotated.

The material operated on by the grating or slicing cylinder is held against the same by a spring-actuated plunger 19, arranged within a vertically-disposed cylindrical housing 20, which is provided at one side with an opening 21 to permit the material to be introduced between the plunger and the cylinder. The plunger is provided with a stem 21, and the spring 22, which is disposed on the stem, has its upper portion arranged in a tubular extension 23 of the housing 20 and bearing against the upper end of the same. The upper end of the tubular extension 23 of the housing is provided with an opening, through which passes the stem of the plunger, and the latter is provided at the upper end of the stem with a ring 24, forming a handle or finger-hold, to enable the plunger to be readily lifted when it is desired to introduce the material into the device. The plunger holds the material against the periphery of the cylinder.



der, and the grated or sliced material is collected within the cylinder and may be readily removed therefrom.

At one end of the upper section of the casing is provided a compartment 25, receiving a removable drawer 26, and a grating-surface 27 is arranged at the top of the upper section 3 over the drawer 26. Parallel ways 28 are provided at opposite sides of the grating-surface to receive flanges of a reciprocating casing or housing 29, which is adapted to hold a nutmeg, whereby the same is moved back and forth over the grating-surface 27. The flanges 29 of the reciprocating housing or casing are enlarged and are adapted to be grasped by the operator, and the nutmeg, which is introduced through an opening 30 of the casing or housing, is engaged by a spring-actuated follower 31, consisting of a rod or stem having a head at its lower end and a ring at its upper end. The coiled spring 32, which holds the nutmeg against the grating-surface, is disposed on the rod or stem and interposed between the head and the upper end of the casing or housing 29.

The invention has the following advantages: The device is simple and comparatively inexpensive in construction, and the cylinders, which are adapted for grating or slicing various kinds of vegetables, fruits, and the like,

are readily arranged so that either operation may be produced. The device is also adapted for rapidly coring apples, and the cores are collected in one of the cylinders, which may be readily emptied when the operation of coring is completed.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

In a vegetable slicer and grater, the combination of a casing, and a rotary cylinder removably journaled in the casing and having one of its journals hollow and communicating with its interior, said hollow journal being provided at its outer end with a cutting extension forming an apple-corer and adapted to be used when the cylinder is removed from the casing, the cores, by the cutting operation, being forced into the cylinder which forms a receptacle for them, substantially as described.

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

J. W. HART.

Witnesses:

J. E. BENJAMIN,  
M. W. NEAL.