

No. 713,430.

Patented Nov. 11, 1902.

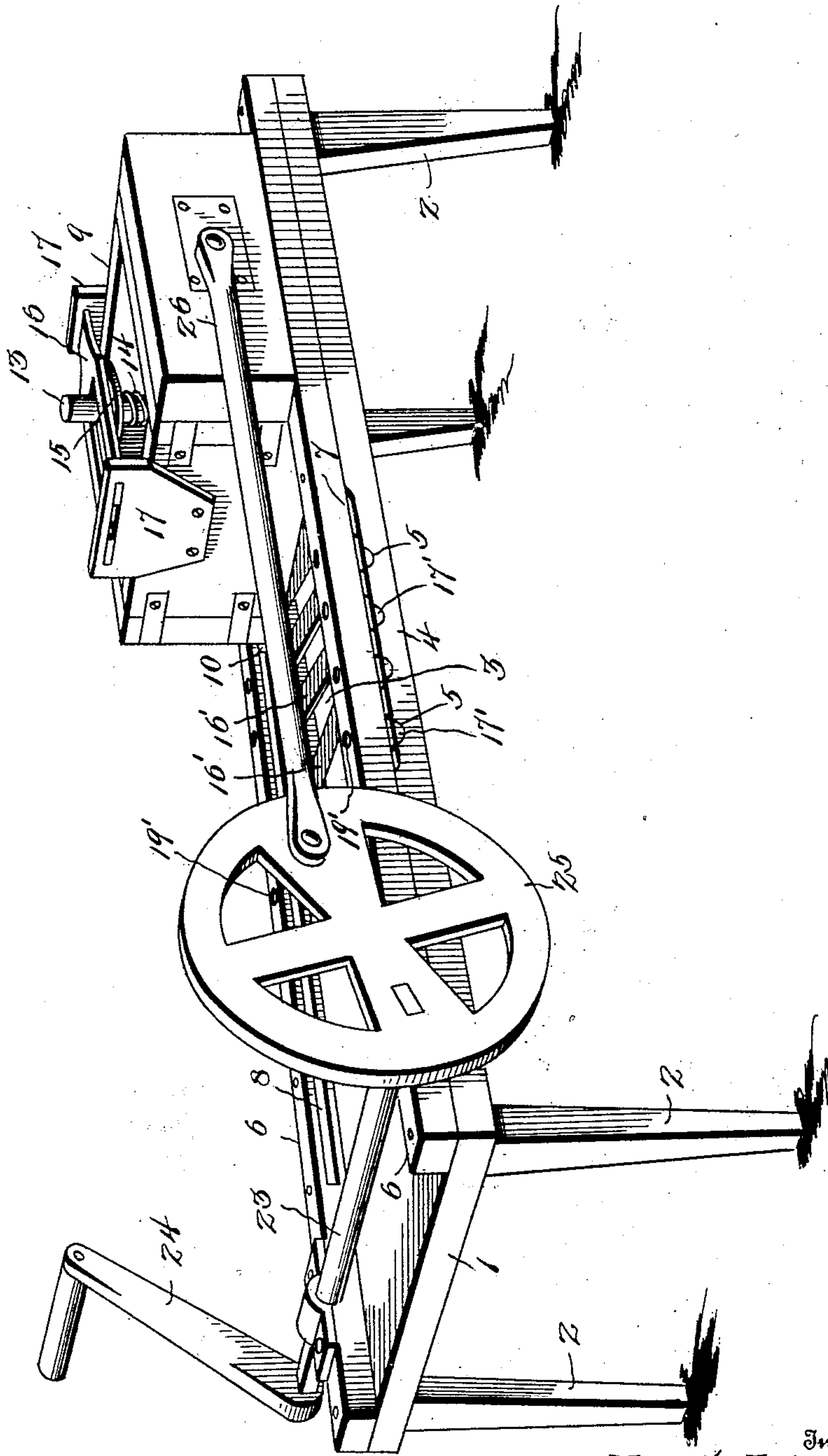
J. J. HALL.
VEGETABLE SLICER.

(Application filed Feb. 24, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



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2 Sheets—Sheet 2.

Fig. 2.

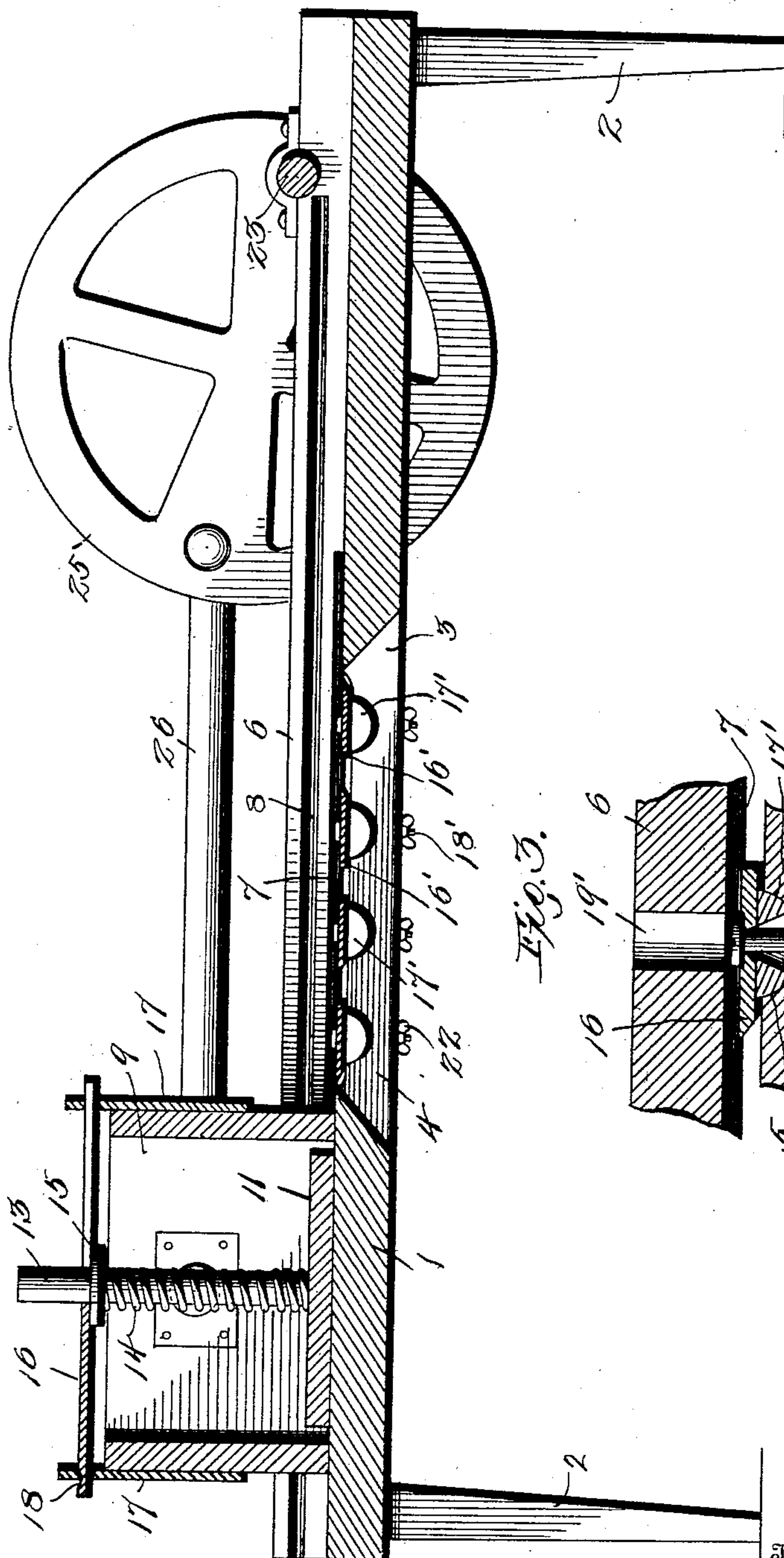
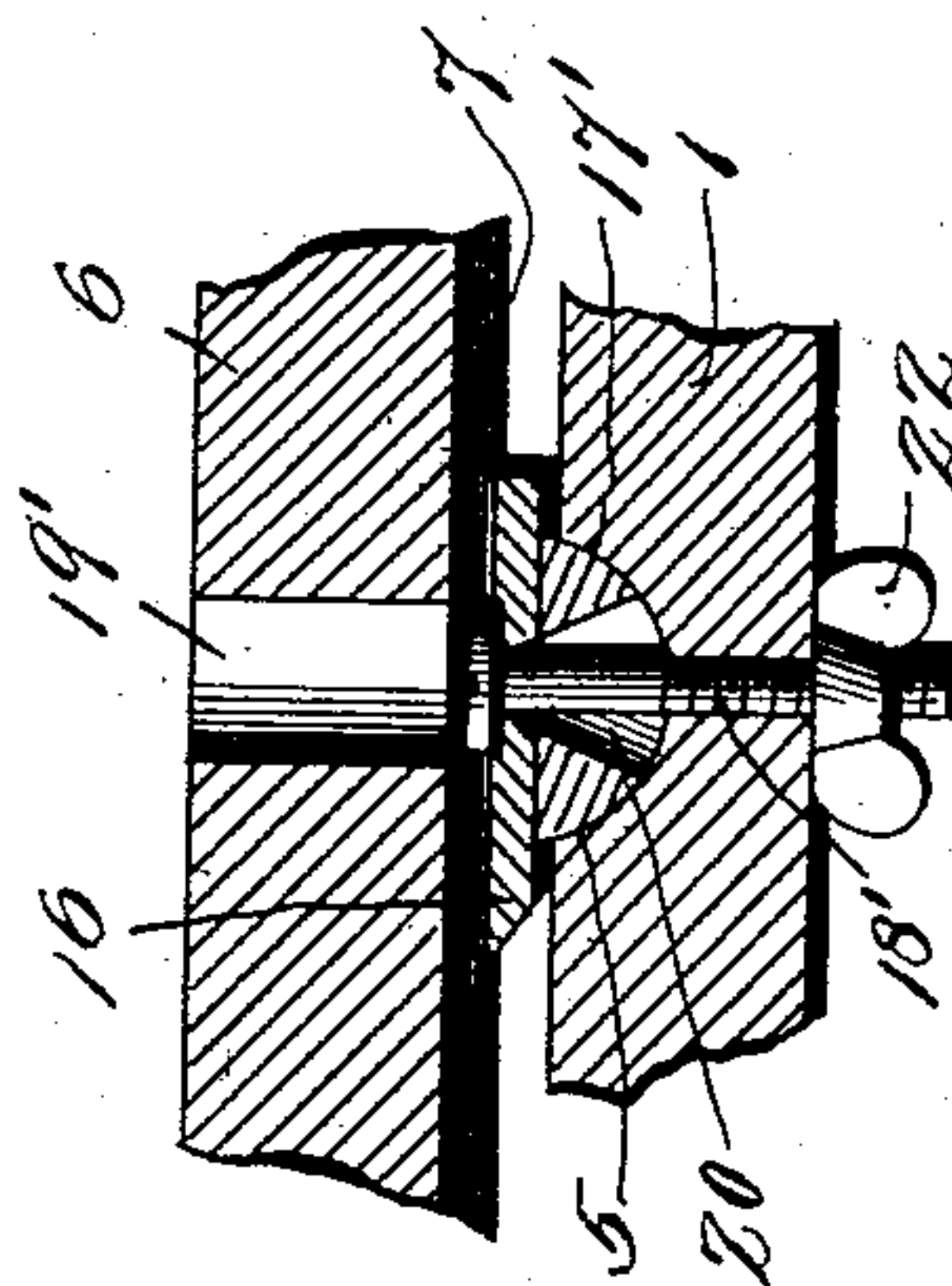


Fig. 3.



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JOSEPH J. HALL, OF FRAZEE CITY, MINNESOTA.

VEGETABLE-SLICER.

SPECIFICATION forming part of Letters Patent No. 713,430, dated November 11, 1902.

Application filed February 24, 1902. Serial No. 95,225. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH J. HALL, a citizen of the United States, residing at Frazee City, in the county of Becker and State of Minnesota, have invented certain new and useful Improvements in Vegetable-Slicers; and I do 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 vegetable-slicers, and more particularly to machines for cutting cabbage for making sauer-kraut.

The object of the invention is to provide a machine of this character which shall be simple of construction, durable in use, comparatively inexpensive of production, and efficient in action, with means for adjusting the angularity of the knives to vary the depth of the cut.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a perspective view of my improved vegetable-slicer. Fig. 2 is a longitudinal central vertical sectional view; and Fig. 3 is a longitudinal view through a portion of the guide-rail, base, and the end of one of the knives.

Referring to the drawings, 1 denotes the base of the machine, which may be suitably supported—as, for instance, by legs or standards 2, secured at the corners thereof. The base is provided intermediate its ends with an opening 3, the end walls 4 of which are depressed below the surface of the base and are provided with semicircular seats or recesses 5.

6 denotes guide-rails bolted or otherwise secured to the upper side of the base at its side edges and having their under sides at a point immediately above the depressed walls 4 of the base recessed, as shown at 7. These rails are provided on their adjacent faces with longitudinal grooves 8.

9 denotes the vegetable-hopper, having an open bottom and provided on its sides with guide-ribs 10, which are adapted to slide in the grooves of the guide-rails.

11 denotes a follower or presser located

within the hopper and designed to rest upon the vegetables therein contained. This follower is provided with a stem 13, around which is coiled a spring 14, having seated upon its upper end a washer 15.

16 denotes a locking-bar having a longitudinal slot through which the upper end of the stem projects. This bar is adapted to be connected to the hopper, preferably by slotted keepers 17, secured to the opposite sides of the hopper and projecting above the edges thereof. One end of the bar is provided with a groove 18.

When the vegetables are placed within the hopper and the follower inserted, the washer is depressed, thus compressing the coiled spring. The locking-bar has its slot slipped over the stem of the follower and has its opposite ends engaged with the slotted keepers, and the energy of the spring is exerted vertically and in forcing the washer upwardly naturally forces the locking-bar in the same direction and causes the groove in the end thereof to interlock with the keeper with which that end of the bar engages. It will thus be seen that the spring while serving to force the vegetables downwardly also acts to lock the bar against longitudinal movement.

16' denotes knives which are arranged diagonally across the opening in the base and are connected to semicircular lugs 17', seated in the recesses 5 by screws 18', which extend through apertures 19', formed in the guide-rails, and project through flaring apertures 20, formed in the end walls 4 of the base, and have washers 21 and thumb-nuts 22. In the present instance I have shown four knives, two of which slant in one direction and two of which slant in the opposite direction. The angularity of these knives may be adjusted to vary the depth of cut by loosening the thumb-nuts and rocking the lugs in their bearings. After the desired adjustment has been effected the knives are locked in their adjusted position by tightening the thumb-nuts, and when it is desired to remove the knives this may be done by inserting a screw-driver through the holes 19' and withdrawing the screws.

23 denotes a drive-shaft, which may be operated by a crank 24, is suitably journaled to the base, and may be rotated. The crank 24

has secured to one end a crank-wheel 25. A link 26 pivotally connects the crank-wheel to the hopper. By rotating the shaft the hopper will be reciprocated and the vegetables contained therein will be subjected to a drawing cut.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of the invention will be readily understood without requiring an extended explanation.

Various changes in the form, proportion, and details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

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

In a vegetable-cutter, the combination with

a base having cutters, of a reciprocating hopper having keepers, a follower in the hopper having a guide-stem, a bar, movable longitudinally in the keepers, having a notch on its upper side to engage one of them, and having a slot for the reception of the guide-stem, said slot permitting longitudinal movement of the bar, and a spring to press the follower downwardly in the hopper and press the bar upwardly, with its notch in engagement with one of the keepers, and thereby lock the bar against longitudinal displacement, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH J. HALL.

Witnesses:

L. W. OBERHAUSER,
JOHN JAPSON.