J. GULLA.

VEGETABLE CUTTER.

APPLICATION FILED MAY 20, 1920.

1,359,362.

Patented Nov. 16, 1920.

2 SHEETS—SHEET 1.

FIG. 1.

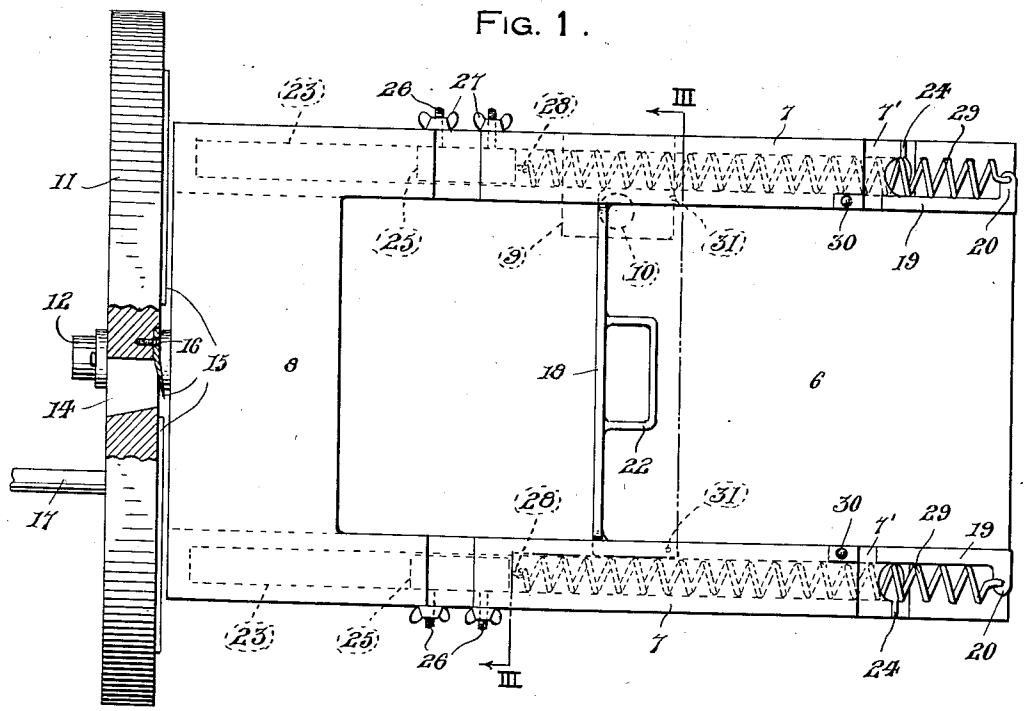
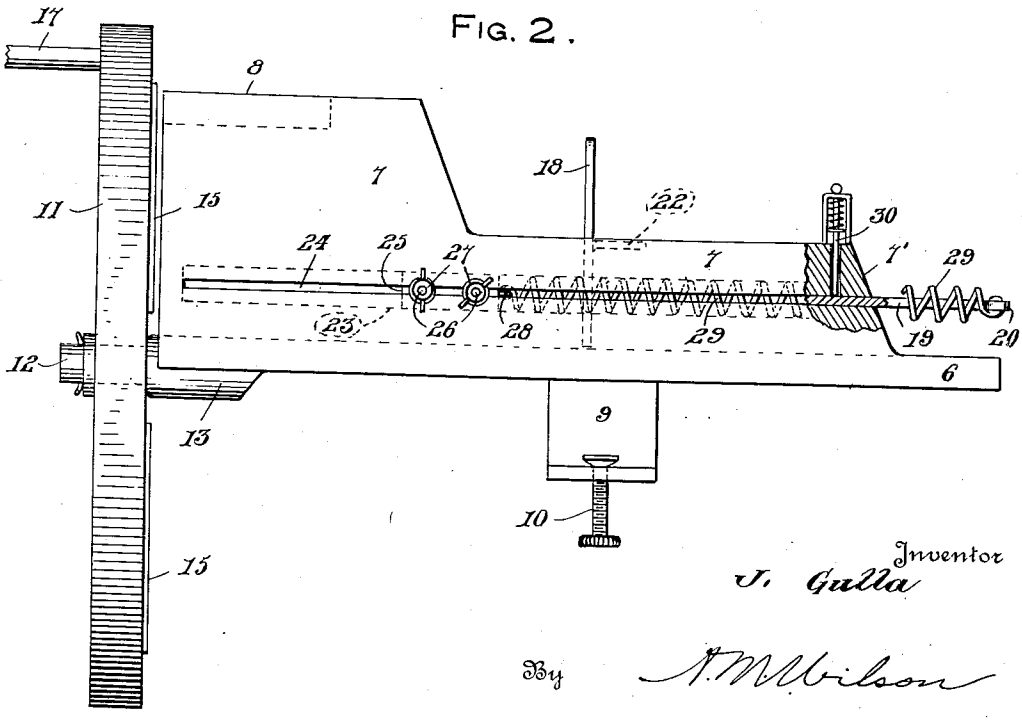


FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 3.

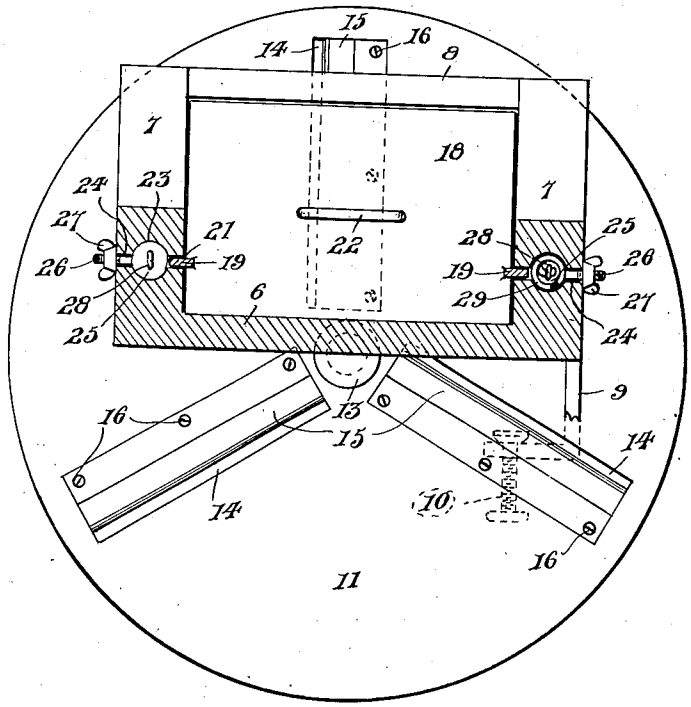


FIG. 5.

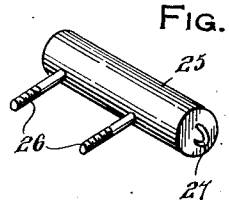
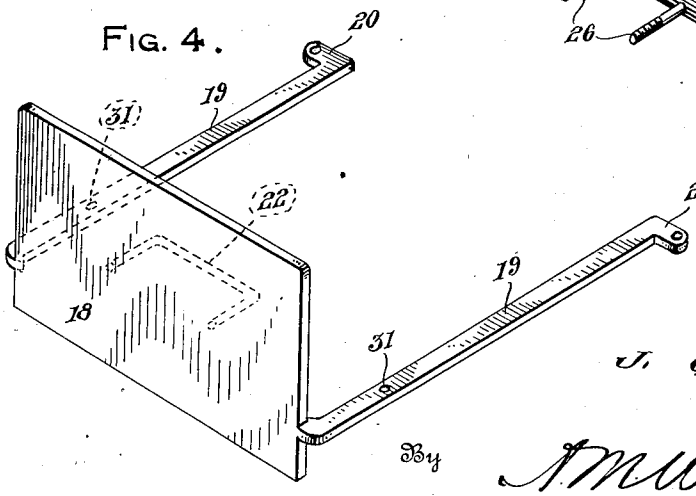


FIG. 4.



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VEGETABLE-CUTTER.

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Application filed May 20, 1920. Serial No. 382,898.

To all whom it may concern:

Be it known that I, JOHN GULLA, a citizen of the United States of America, residing at Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Vegetable-Cutters, of which the following is a specification.

The present invention has for its object to provide a device for cutting or slicing vegetables or other articles and is especially designed for household use, the article to be sliced being fed forwardly by a tension feed plate for contact with one face of a revolving disk, upon which face slicing knives are positioned.

A further object of the invention is to provide a vegetable cutter of a type especially designed for slicing cabbage with a controllable tensioned plate for feeding the cabbage to position for slicing.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings and claimed.

In the drawings, wherein like reference characters designate corresponding parts throughout the several views,

Figure 1 is a top plan view, partly in section of a vegetable cutter constructed in accordance with the present invention,

Fig. 2 is a side elevational view of the same, partly in section to show the tensioned pin for retaining the presser plate in retracted inoperative position,

Fig. 3 is a cross sectional view taken on line III—III of Fig. 1,

Fig. 4 is a perspective view of the tensioned feed plate removed from the machine, and

Fig. 5 is a perspective view of the adjustable block for regulating the tension on the feed plate.

Briefly described, the present invention embodies a machine, especially designed for household use in the slicing of cabbage or other vegetables and embodies a base section upon the forward edge of which a disk provided with cutting blades upon one face is journaled. A clamping arm is associated with the base plate for securing the same to a table or other support. A feed plate embodies a pair of side arms that are slidably mounted in opposite guides upon the base plate and adjustable tension devices are associated with the guide arms and plate for causing the plate to move forwardly in the feeding of a vegetable to the cutting wheel. In the loading of the machine, devices are provided for engagement with the arms of the feed plate to hold the feed plate retracted against the tension thereon.

Referring more in detail to the accompanying drawings, there is illustrated a vegetable slicer embodying a frame structure formed of a bottom wall 6, side walls 7 and a forward relatively narrow connecting top wall 8, the side walls 7 adjacent the top wall 8 being of increased height while the rear ends of the side walls 7 terminate as at 7′ slightly spaced from the rear end of the bottom wall 6. A mounting clamp 9 is carried by the frame structure and includes a clamping screw 10 for securing the device to a suitable support such as a table.

A cutting wheel 11 is associated with the forward end of the bottom wall 6 and is journaled upon a stub shaft 12 that is fixed in the bearing 13 carried by the bottom wall 6, as shown in Fig. 2. The wheel 11 is of solid construction and has formed therein a plurality of radially extending slots 14, while the inner face of the wheel 11 adjacent the supporting frame and in proximity of the slotted openings 14 is recessed to provide seats for the cutting blades 15 that are anchored in the seats by suitable fastening devices 16. A handle 17 is carried by the wheel 11 to effect rotation of the wheel during the cutting operation.

Devices are provided for feeding the articles to be sliced to a position for engagement with the rear face of the wheel 11 and the knives carried thereby and include a plate 18 of the form best illustrated in Fig. 4, being rectangular in shape and carrying side arms 19 with apertured bent ends 20 extending outwardly therefrom. As shown more clearly in Fig. 3, the inner faces of the side walls 7 are longitudinally slotted as at 21 to provide guides for the side arms 19, the feed plate 18 being of a size to fit within the side walls 7 and to be fed forwardly between said side walls and the bottom and top walls 6 and 8 respectively. A handle 22 is carried by the rear face of the plate 18 and by which the plate may be manually

retracted. Adjustable springs are associated with the feed plate for moving the same forwardly toward the cutting wheel 11 and include the provision of an opening 23 formed in each side wall 7 and extending from a point adjacent the forward edge thereof through the rear inclined ends 7' as shown in Fig. 1. The outer faces of the walls 7, as shown in Figs. 2 and 3 are slotted as at 24 coextensive with the openings 23, the slots communicating with the openings and adjustably arranged within each slot is a cylindrical block 25 shown in detail in Fig. 5 carrying a pair of alined screws 26 that freely project through the slots 24 for the reception of thumb nuts 27 upon the outer ends thereof. An eye 28 is carried by one end of each block 25 and has connected thereto a coil spring 29 freely disposed within the adjacent opening 23 and projecting through the rear inclined end 7' of the side wall for connection with the apertured bent end 20 of the adjacent plate arm 19.

In placing an article in the machine to be sliced, the handle 22 of the feed plate 18 is grasped and the plate and arms 19 move rearwardly against the tension of the springs 29, the blocks 25 having been anchored in the wall openings 23. A tensioned pin 30 is carried by the rear end of each side wall 7 and extends downwardly for reception in an opening 31 in the side arm 19 for holding the side arms and plate 18 retracted against the tension of the springs 29.

With the plate retracted and so retained as described, an article to be sliced such as cabbage or other vegetables is placed upon the bottom wall 6 and the pins 30 are then elevated to remove the same from the openings 31 in the plate arms 19, at which time the springs 29 will function to move the plate 18 forwardly into engagement with the article and to move the article forwardly upon the bottom wall 6 and beneath the top wall 8 for engagement with the inner face of the cutting wheel 11. By grasping the crank handle 17, and rotating the wheel 11, the cutting blades 15 carried by the inner face of the wheel will slice the vegetable and cause the sliced portion thereof to be delivered through the adjacent wheel opening 14 for deposit in a receptacle. A tension upon the springs 29 is varied by adjusting the blocks 25 in the openings 23, which is accomplished by loosening the set screws 27 and shifting the blocks in the desired direction.

While there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What is claimed as new is:—

1. A vegetable cutter comprising a frame embodying a bottom wall, side walls and a top wall, a cutting wheel journaled at the forward end of the frame, the inner faces of the side walls having guide slots therein, a feed plate positioned between the side walls, side arms carried by the feed plate extending into the wall slots for guiding the movements on said plate, the side walls having cylindrical openings therein, blocks adjustably mounted in said openings, and coil springs extending between said blocks and the rear ends of said side arms for tensioning the feed plate to move the same forwardly.

2. A vegetable cutter comprising a frame embodying a bottom wall, side walls and a top wall, a cutting wheel journaled at the forward end of the frame, the inner faces of the side walls having guide slots therein, a feed plate positioned between the side walls, side arms carried by the feed plate extending into the wall slots for guiding the movements on said plate, the side walls having cylindrical openings therein, blocks adjustably mounted in said openings, coil springs extending between said blocks and the rear ends of said side arms for tensioning the feed plate to move the same forwardly, and tensioned pins carried by the side walls and adapted for engagement with the side arms of the plate for holding the plate and arms retracted against the tension of the springs.

3. A vegetable cutter comprising a frame formed of bottom, side and top walls, the side walls having longitudinal openings therein and opposite slots extending to the outer sides of the side walls, a cutting wheel journaled at the forward end of said frame, a feed plate slidably mounted in the inwardly positioned slots, coil springs positioned in the central openings and connected at their rear ends to the rear end of the feeding plate, means adjustably slidable within said openings connected to the forward ends of said springs and extending through the outwardly positioned slots, and means associated with the outwardly projecting portions of said blocks for holding the same rigidly positioned within said openings.

In testimony whereof I affix my signature.

JOHN GULLA.