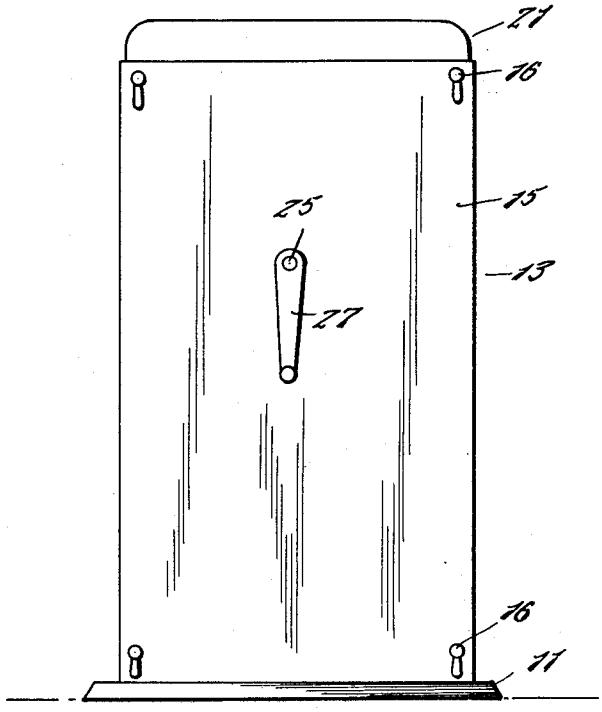
March 29, 1932. J. A. BARTKUS 1,851,887

VEGETABLE CUTTER

Original Filed April 30, 1929 3 Sheets-Sheet 1

Fig. 1.



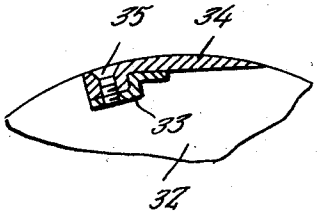


Fig. 6.

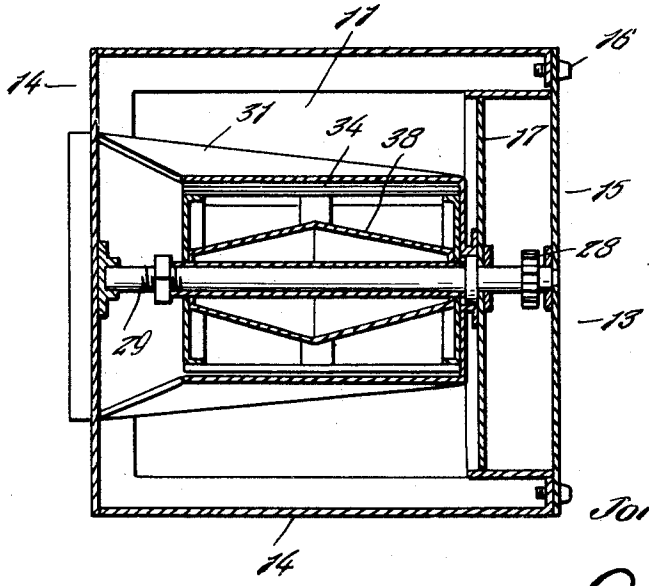


Fig. 5.

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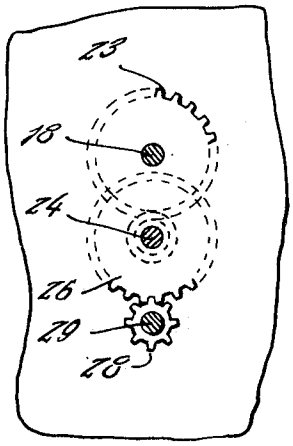
Fig. 4.



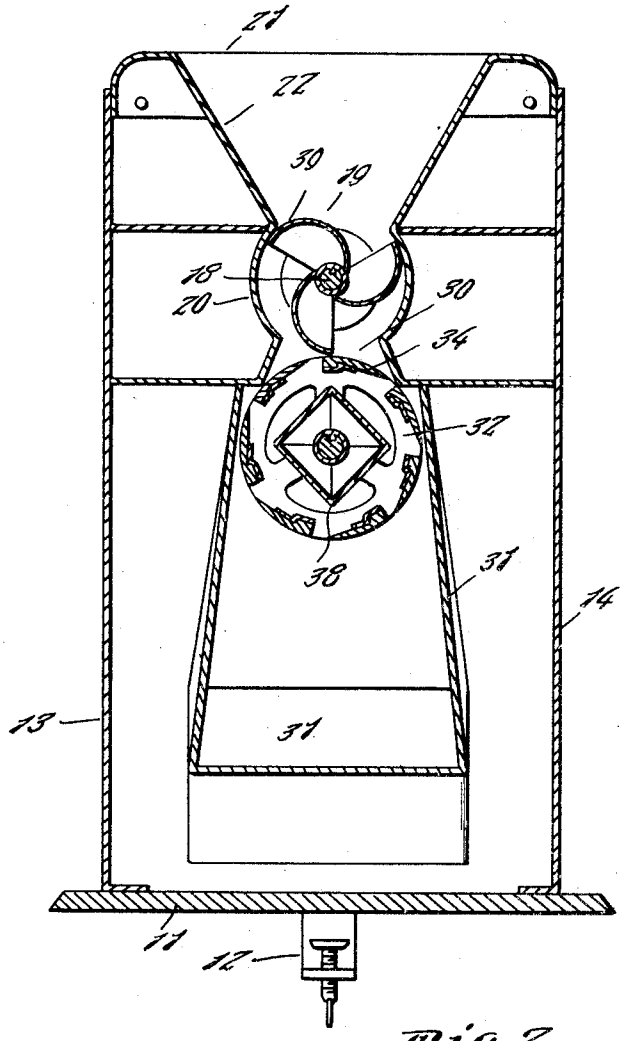


Fig. 2.

Fig. 10.

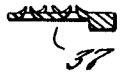
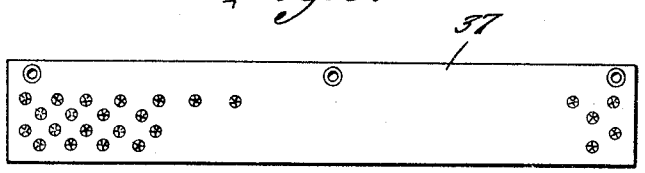


Fig. 9.



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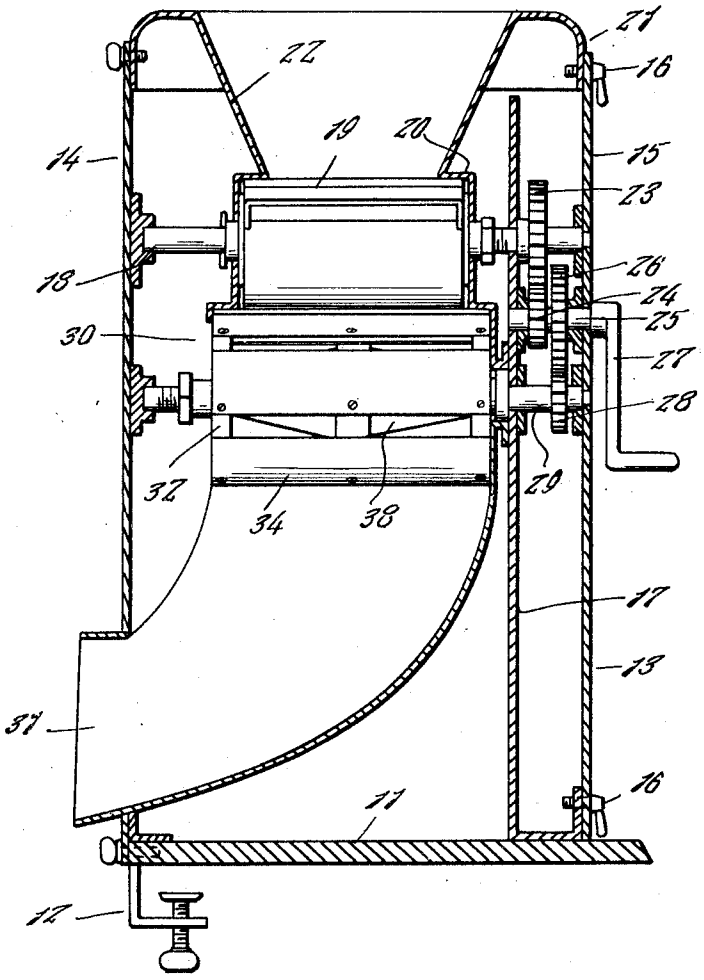

Fig. 3.

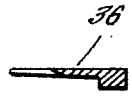

Fig. 8.

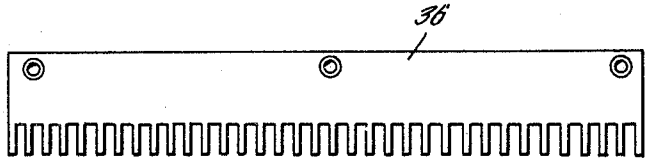

Fig. 7.

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Patented Mar. 29, 1932

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UNITED STATES PATENT OFFICE

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VEGETABLE CUTTER

Application filed April 30, 1929, Serial No. 359,289. Renewed October 5, 1931.

This invention relates to an improved vegetable cutter and has more particular reference to a machine which may be manually or power driven and which is especially constructed for slicing, shredding and otherwise dissecting vegetables into smaller particles to facilitate subsequent handling and cooking.

Briefly stated, the invention comprises a portable machine including a base having an attaching clamp, a casing, a feed hopper at the top, and internal mechanism for regulating the intake and severing the edibles into small particles for convenient use.

It is my principal aim to generally improve upon devices of this class by providing one which is characterized by a novel organization of details intimately cooperating to fulfill the requirements of an invention of this class in an efficient, dependable and otherwise satisfactory manner.

In the drawings:

Figure 1 is a side elevational view of a machine constructed in accordance with the present invention.

Figure 2 is a vertical sectional view through the same.

Figure 3 is also a vertical section taken at right angles to Figure 2.

Figure 4 is a fragmentary view showing the operating gears.

Figure 5 is a central horizontal section through the rotary cutter.

Figure 6 is a fragmentary view of one end portion of said cutter.

Figure 7 is a detail view of a removable shredding blade which may be applied to the rotary cutter.

Figure 8 is a transverse section through the blade seen in Figure 7.

Figure 9 is a plan view of a different type or form of blade, and

Figure 10 is a cross section through Figure 9.

Referring now to the drawings by reference numerals it will be observed that the character 11 designates a base which is shown in Figure 3 as provided with a suitable clamp 12 to permit it to be attached to a table or the like. Supported on this base is an appropriately designed casing generally designated by the reference character 13.

The stationary walls of the casing are designated by the reference characters 14 and the reference character 15 designates a removable plate or wall held in place by suitable fasteners 16. This plate 15 permits access to be had to the interior of the casing. As seen in Figure 3, on the interior there is a vertical partition plate 17. Also, within the casing I provide a plurality of bearings to accommodate the rotary shaft. On the uppermost shaft 18 is a rotary feeder generally designated at 19 and this is confined in a housing 20, supported from the removable cover 21. Incidentally this cover has a conical or funnel shaped hopper 22 to facilitate placement of the article to be ground or cut.

On one end of this shaft 18 is a driven gear 23. This gear 23 is in mesh with a pinion 24 on the power shaft 25. There is also a larger gear 26 on the power shaft. The shaft 25 may be driven by a motor but it is preferably operated through the medium of a hand crank 27 which is attached thereto. The gear 26 is in mesh with a smaller gear 28, on the shaft 29, of the rotary cutter 30. This cutter is mounted for rotation in the upper end of a suitably shaped discharge chute 31.

The rotary cutter is of a convertible nature to accommodate the different types of cutting blades. It comprises a tapered end head 32 and longitudinal attaching bars 33, (see Figure 6) to accommodate the cutting blades. As seen in Figure 6, an arcuate cutting blade for slicing, is designated at 34 and this is attached by screws or similar fastening 35. I might conveniently state here, however, that in Figure 7 the reference character 36 designates a toothed cutting blade for shredding vegetables and fruits. Likewise the reference character 37 designates this type of blade formed with a multiplicity of cutting elements of the design represented in Figure 10, these blades 36 and 37 being substituted for the blade 34 in an obvious manner.

The reference character 38 in Figure 5 designates a hub casing, which is of pyramidal configuration or of tapered form to render it substantially self-cleaning and to prevent

the accumulation of cuttings within the rotary cutter and to thereby obviate possible jamming.

I might also call attention to the fact that the rotary feeder 19 as seen in Figure 2 is provided with radial cup-like sections 39 to facilitate and regulate the feeding operation.

By placing the products to be cut in the hopper 22 and rotating the hand crank the products will be acted upon by the rotary feeder 19 and carried down against the rotary cutter. The cutter, through the medium of the gearing rotates at an appropriate relative speed and the peripheral cutting blade acts on the product to convert it into small pieces which drop down into the chute 31 and are discharged into an appropriate collection receptacle (not shown).

From the foregoing description and drawings it will be seen that I have evolved and produced a simplified machine for cutting, shredding and otherwise treating fruits and vegetables. It is regarded as sanitary, efficient in operation, positive and smooth in action and safe to handle.

It facilitates the work and is otherwise efficient in fulfilling the requirements of a device of this class.

Minor changes in the shape, size, materials, and rearrangement of details coming within the field of invention claimed may be resorted to in actual practice, if desired.

I claim:

In a fruit and vegetable cutter of the class described, a base having an attaching bracket secured thereto, a casing rising from said base, a removable cover for the open top of the casing, said cover being centrally provided with a depending conical extension providing a hopper, said extension at its lower end merging into a beader housing, a discharge chute leading downwardly from said housing, a shaft mounted for rotation in said casing, a cupped feeder mounted on said shaft arranged in said housing, a second shaft disposed below and in spaced parallelism with the first shaft and mounted for rotation in said casing, a rotary bladed cutter on said second shaft arranged in the upper end of said chute, a power shaft mounted for rotation in said casing between said first mentioned shafts, gears on said power shaft, a gear on each of said first mentioned shafts meshing with the gears on the power shaft, an operating handle for said power shaft exteriorly of said casing, said cutter embodying a hub tapering toward its opposite ends.

In testimony whereof I affix my signature.

JOHN A. BARTKUS.