M. L. SCHILLY.

SAUER KRAUT MACHINE.

APPLICATION FILED FEB. 11, 1914.

1,149,954.

Patented Aug. 10, 1915.

2 SHEETS—SHEET 1.

Fig. 1.

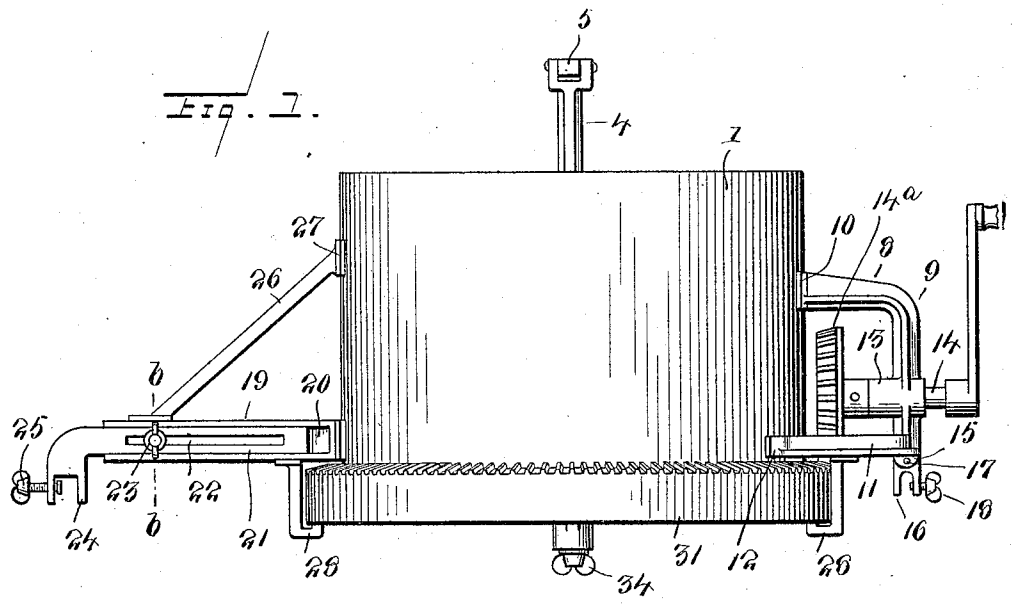
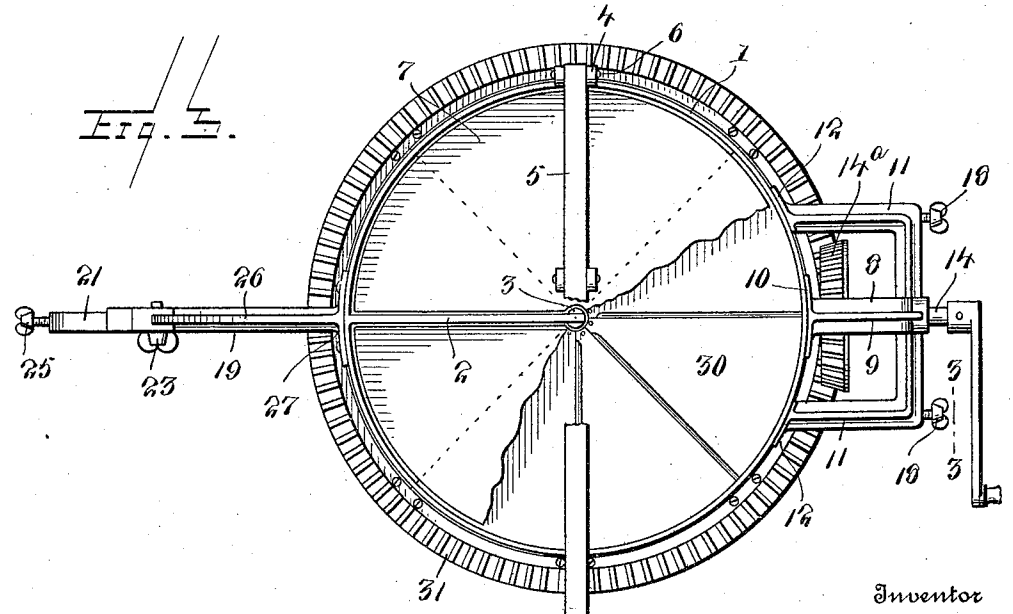


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

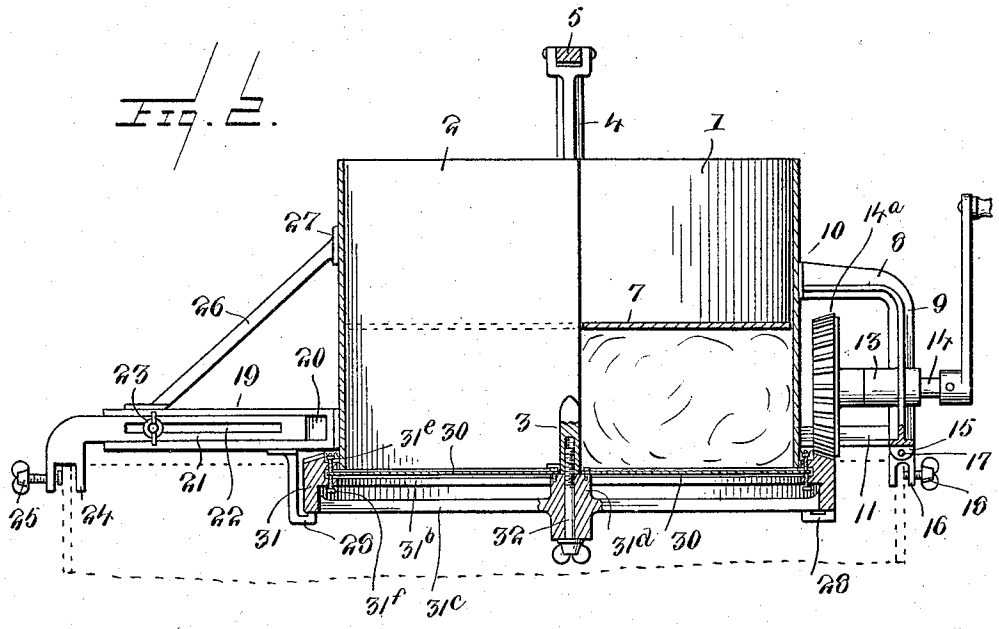


Fig. 4.

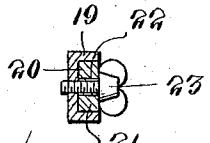


Fig. 5.

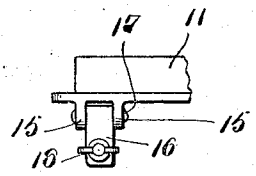
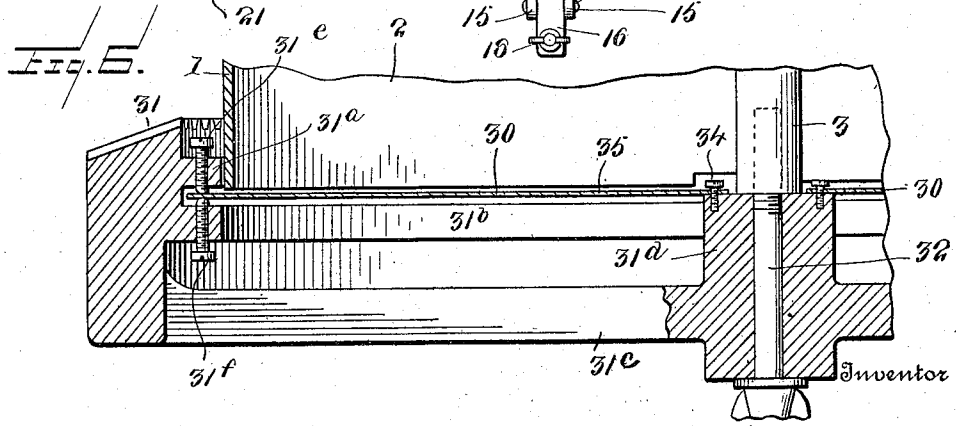


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

MEINRAD L. SCHILLY, OF PIERRON, ILLINOIS.

SAUER-KRAUT MACHINE.

1,149,954. Specification of Letters Patent. Patented Aug. 10, 1915.

Application filed February 11, 1914. Serial No. 818,097.

To all whom it may concern:

Be it known that I, MEINRAD L. SCHILLY, a citizen of the United States, residing at Pierron, in the county of Bond and State of Illinois, have invented new and useful Improvements in Sauer-Kraut Machines, of which the following is a specification.

This invention is an improved machine for cutting sauerkraut, slicing vegetables and other like commodities, and consists in the construction, combination and arrangement of devices hereinafter described and claimed.

One object of my invention is to provide an improved machine of this character embodying an adjustable support adapted to hold the machine on the top of a tub, bucket or other like vessel of any ordinary size.

Another object is to effect improvements in the construction of the machine whereby the same is adapted to be hingedly connected at one side to a tub or barrel and, hence, to be lifted therefrom when it is desired to tamp or press down the contents of the tub or barrel.

Another object is to effect improvements in the construction of the frame of the machine.

Another object is to effect improvements in the construction of the cylinder or hopper and to provide an improved stop wall and ledger therein.

In the accompanying drawings: Figure 1 is an elevation of a cutting machine constructed in accordance with my invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a plan of the same. Fig. 4 is a detail sectional view on the plane indicated by the line *b*—*b* of Fig. 1. Fig. 5 is a detail elevation showing one of the clamps and a contiguous part of the frame which is pivotally mounted thereon. Fig. 6 is a detail sectional view of the cutter.

In the embodiment of my invention, I provide a cylindrical body or hopper 1 in which the cabbages or other vegetable to be cut or sliced are placed. This hopper is open at its upper and lower ends and is provided in one side with a radially arranged vertical stop plate 2 which extends nearly to the center of the hopper and the lower portion of which has an extended bearing 3 arranged with its center coincident with that of the hopper. On one side of the hopper at a point at right angles to the stop plate 2 are a pair of upwardly extending ears 4 between which one end of a lever 5 is pivotally mounted as at 6, the lever being provided on its under side with a follower 7 to bear on the cabbage and press the same downwardly in the hopper, when necessary. At one side of the hopper at a point opposite the stop plate 2 is a frame 8 which comprises a vertical arm 9, the upper end of which is curved inwardly and riveted or otherwise secured to the hopper as at 10 and a pair of oppositely extending and substantially horizontally arranged arms 11 which also curve inwardly and the ends of which are attached to the hopper as at 12.

At the intersection of the arms 9 and 11 is a bearing 13 for a driving shaft 14. The arms 11 are provided at suitable points with pairs of downwardly extending spaced lugs 15 between which a pair of substantially inverted U-shaped clamps 16 are pivotally mounted as at 17 and each of the said clamps is provided with a threaded opening in its outer arm or jaw and with a clamping screw 18 engaging said opening. On the side of the body 1 opposite the frame 8 is a radially arranged outwardly extending supporting arm or bar 19 which is provided in one side with a longitudinal recess 20 in which is mounted an adjustable arm 21, said arm 21 having a longitudinal slot 22 and the arm 19 being provided with a clamping screw 23 which operates in the said slot. The arm 21 has its outer end turned downwardly and formed with a substantially inverted U-shaped clamp 24, the outer arm or jaw of which has a threaded opening and a clamping screw 25 in said opening.

An inclined brace 26 extends upwardly from a point near the outer end of the arm 19 and has its upper end secured to the body or hopper 1 as at 27. The arms 11 of the frame 8 are provided with supporting guides 28 which extend downwardly and inwardly and the lower portions of which are somewhat below the level of the bottom of the hopper and the arm 20 has a similar supporting guide 29.

The cutter 30 comprises a wheel-shaped frame and a series of segmental inclined cutter blades 35. The frame comprises a rim 31 having beveled gear teeth on its upper side which are engaged by a beveled gear 14^a on the driving shaft 14. This rim is provided on its inner side with annular flanges 31^a and 31^b which are spaced apart and the said rim, which bears on the sup-

porting guides 28, is connected by radial arms or spokes 31^c to a central hub member 31^d. A vertical shaft 32 which is mounted in the bearing 3 passes through a central opening in the hub member and is provided at its lower end with a winged head which bears against the lower side of the hub member. The segmental cutter blades 35 have their inner ends secured on the upper end of the hub member by means of screws 34 and have their outer ends arranged in the space between the flanges 31^a and 31^b and are engaged on their upper and lower sides by screws 31^e and 31^f which respectively engage threaded openings in said upper and lower flanges, the said screws supporting the cutter blades and enabling them to be inclined transversely so that the beveled cutting edge at the front side of each cutter blade is spaced above the rear side of the next cutter blade in front thereof, in the direction in which the cutter rotates and the said screws enable these cutter blades to be adjusted to any required angle. The openings through which the screws 34 pass are slightly larger than the diameter of said screws so that the inner ends of the cutter blades may also be adjusted.

The shaft 14 is provided at its inner end with a beveled gear wheel 37 which engages the gear 31 of the cutter and is provided at its outer end with a suitable crank 38 or other power element by means of which the shaft 14 may be rotated so as to cause its gear 37 by movement with the gear 31 of the cutter disk to rotate the latter and, hence, cause the radially arranged cutter blades to pass successively under the lower edge of the stop plate 2 so that the said stop plate or wall also forms a ledger element.

When in use, my improved cutting machine is arranged on the upper side of a tub, barrel or other like vessel with its clamps 16 engaging the wall thereof at one side and its clamp 24 engaging the wall at the opposite side. By setting up the screws 18 and 25 the machine can be firmly secured on the vessel while in use. When it is desired to tamp the contents of the vessel from time to time, the screw 25 should be loosened so as to disengage one side of the tub or vessel and the machine can then be turned upwardly on its pivots 17 out of the way without the necessity of entirely removing it from the tub or vessel, the clamps 16 remaining attached to the tub or vessel and forming hinge connections between the cutting machine and the tub or vessel, as will be understood. By adjusting the arm 21 the machine may be adapted to fit and be secured on a tub or vessel of any size.

While I have herein shown and described a preferred form of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts without departing from the spirit of my invention and within the scope of the appended claim.

I claim:—

A vegetable cutter comprising a cylindrical hopper, frames secured to opposite sides of said hopper, supports depending from said frames, a toothed circular frame resting on said supports, a hub formed at the center of said circular frame, a pair of superimposed annular flanges formed on said circular frame, segmental cutter blades secured to said hub and having their peripheral edges interposed between said flanges, screws passing through said flanges for deflecting portions of said blades, and means coöperating with the teeth of said frame for turning said blades.

In testimony whereof I affix my signature in presence of two witnesses.

MEINRAD L. SCHILLY.

Witnesses:
EMIL BESLER,
E. L. KNEBEL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."