

(No Model.)

2 Sheets—Sheet 1.

C. H. WOLF.
VEGETABLE PARER.

No. 556,875.

Patented Mar. 24, 1896.

Fig. 1.

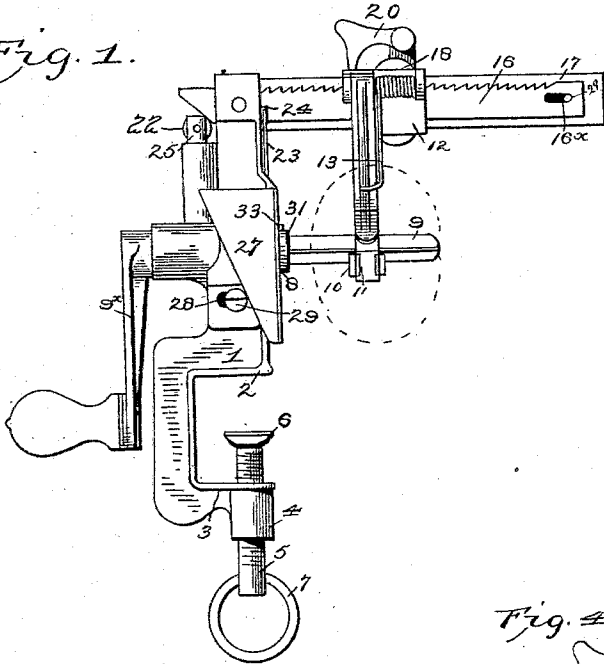


Fig. 2.

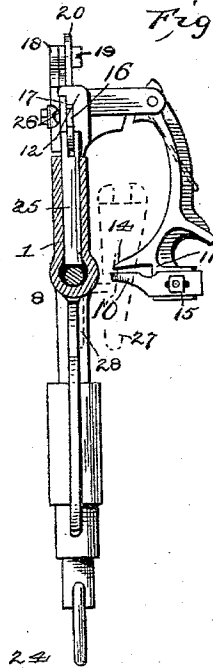


Fig. 3.

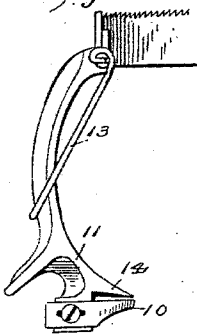
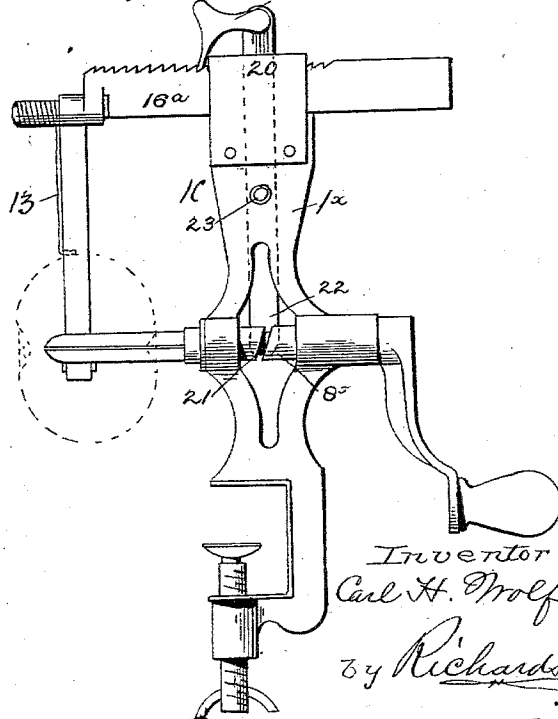


Fig. 4.



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My commission as
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Inventor
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by Richardson
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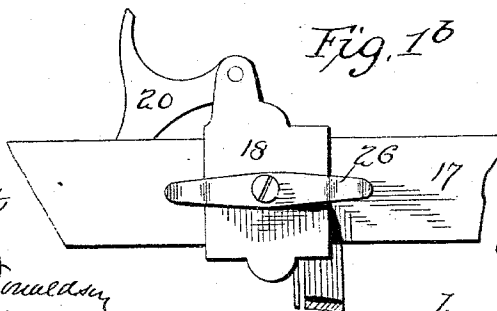
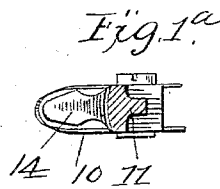
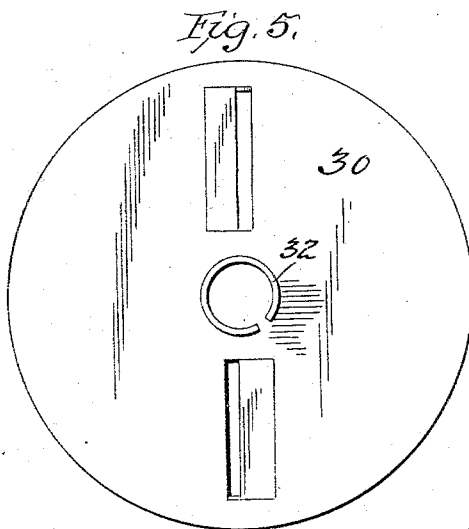
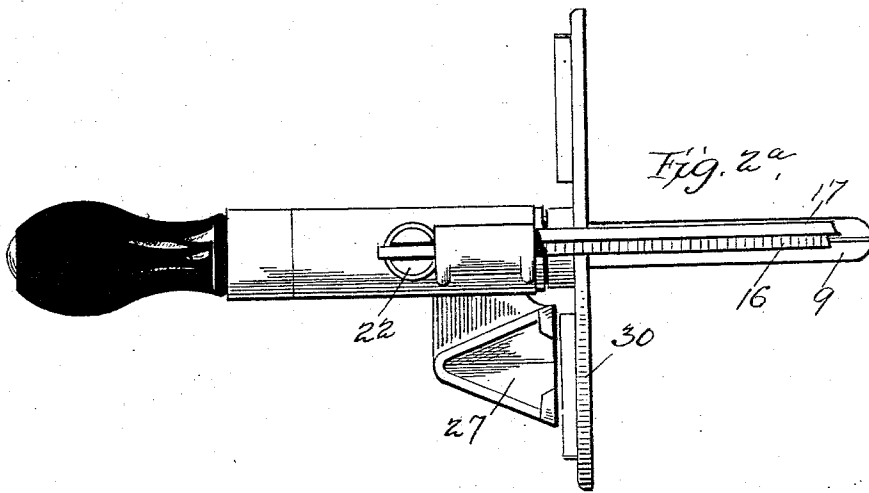
(No Model.)

2 Sheets—Sheet 2

C. H. WOLF.
VEGETABLE PARER.

No. 556,875.

Patented Mar. 24, 1896.



Attest
My Commission
C. S. Middleton.

Inventor
Carl Hugo Wolf
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Attys.

UNITED STATES PATENT OFFICE,

CARL HUGO WOLF, OF ZWICKAU, GERMANY.

VEGETABLE-PARER.

SPECIFICATION forming part of Letters Patent No. 556,875, dated March 24, 1896.

Application filed August 22, 1895. Serial No. 560,185. (No model.) Patented in Austria May 21, 1894, No. 1,726, and in Germany June 23, 1894, No. 27,026, and April 18, 1895, No. 39,322.

To all whom it may concern:

Be it known that I, CARL HUGO WOLF, a subject of the King of Saxony, residing at Zwickau, Kingdom of Saxony, Germany, have made a new and useful Improvement in Vegetable-Parers, (for which Letters Patent have been granted in Germany June 23, 1894, No. 27,026, and April 18, 1895, No. 39,322, and in Austria May 21, 1894, No. 1,726,) of which the following is a clear and exact specification.

My invention includes a rotary spindle for holding the fruit or vegetable, a knife carried by a yielding arm, a rack-bar for moving said arm along the spindle, and an operating connection between the spindle and the rack, including a bar or lever and a pawl engaging the teeth of the rack-bar. My invention includes also features of construction hereinafter particularly set forth and claimed.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation. Figs. 1^a and 1^b are details of Fig. 1. Fig. 2 is a detail rear view partly in section. Fig. 2^a is a detail plan view of Fig. 1, showing a modified form of knife. Fig. 3 is a detail of a modification. Fig. 4 is a side elevation of a modification. Fig. 5 shows a face view of the knife of Fig. 2^a.

In the drawings the frame of the device is shown as comprising the vertical standard 1, having the lateral extension 2 adapted to rest upon a table or bench and the corresponding extension 3 adapted to embrace the under side of the same, thereby forming a socket into which fits the edge of the table or bench, said extension 3 having a threaded opening extending through a boss 4 formed on the end thereof. A threaded bolt 5 is adjustable in this opening and carries a dished clamping-plate 6 on one end and an operating-handle on its other end, this handle being shown in the present instance in the form of a ring 7, thus affording means for hanging the device upon a nail when out of use.

A shaft 8 carrying a spindle 9 is journaled in the upper part of the standard 1, this shaft being rotated by means of the crank-arm 9^a. The spindle 9 is formed of three blades joined

at their inner edges and diverging outwardly, this spindle being adapted to pierce the vegetables to be pared and hold the same thereon.

The blade 10 of the paring-knife is in the form of a loop, the end thereof being attached to the arm 11 journaled between the laterally-projecting arms of the casing 12, to be hereinafter described, this arm 11 being under the tension of the spring 13 and having a laterally-projecting arm 14, that is rounded on one end to conform to the contour of the sharpened edge of the bight of said loop, which forms the cutting-edge of the blade. The blade is slotted near each end and can thus be adjusted in relation to said arm 14 by means of its attaching-screw 15, the shank of which passes through said slots, this adjustment being given in order that the thickness of the paring may be regulated.

The casing 12 is recessed to receive the horizontally-extending rack-bar 16 and guiding-bar 17, said casing being provided with a backing-plate 18, having an extension above the same, carrying a boss in which is held the headed pin 19, forming a pivot for the loosely-operating detent 20 that engages the teeth of the rack-bar 16. The upper end of the standard 1 is also recessed to receive the bars 16 and 17, a screw extending through the bar 17 and through a slot in the bars 16 and fitting an opening in said standard for holding the two bars in said recess and thereby supporting the same. The forward end of the bar 16 is provided with a slot 16^x corresponding to the one above mentioned, into which extends a lug 29 projecting from the bar 17. The rear end of the bar 16 is inclined from the bottom outwardly, and a roll 22, running on its incline in connection with a spring 23, attached at one end to the standard 1 and having its free end held in a slot 24 in said bar 16, reciprocates the same back and forth. The roller 22 is journaled in the end of a plunger 25, guided in a vertical socket formed in the standard 1 and actuated by the eccentrically-reduced part of the shaft 8, upon which said plunger rests.

It will be understood that at each forward

reciprocation of the rack-bar the casing carrying the knife will be pushed along the guiding-rod 17 by means of the detent engaging the teeth of the rack-bar, thus presenting the
 5 knife to different parts of the vegetable being pared, which is in the meantime revolving with the spindle. The detent rides over the teeth of the rack-bar when the same is returned by the spring 23 as the casing 12 is
 10 held stationary by means of the flat spring 26, secured centrally to the backing-plate of said casing, each end of said spring being in frictional contact with the plate 17.

It will be apparent from the foregoing description that the article to be pared is constantly rotated and that the knife is held in engagement therewith and fed gradually along, thus permitting every portion of said vegetable to be reached by the knife.

20 In Figs. 3 and 4 I show a modification in which, instead of mounting the paring-knife upon a block moving step by step along a rack, I mount the knife-arm 11 on the rack-bar itself, said rack-bar 16^a passing through
 25 the head 20 of the standard 1^x and being operated step by step from a cam-groove 21 in the shaft 8^x, through a lever 22, pivoted at 23 and carrying a pivoted push-pawl 24 at its upper end.

30 In connection with the other parts of the device I have shown a vegetable-cutter, and while this is particularly adapted for cutting beans it may be used for cutting various other vegetables. This cutter comprises the open-
 35 sided hopper 27, carried by the bracket 28, adjustably secured to the standard 1 by the screw 29, the shank thereof passing through a slot in the lower part of said bracket. The cutting-blades that operate in conjunction
 40 with the hopper are diametrically arranged on a disk 30, having a slotted hub 32 adapted to fit on a boss 31 carried by the spindle, said boss being provided with a projecting pin 33, that enters the said slot in the hub and holds
 45 said disk in position. This disk closes the open side of said hopper and rotates with the spindle, the cutting-edges of the knife-blades projecting through slots therein.

It will be understood that the knife 10 and

rack are thrown out of operation during the 50 operation of the cutter 30.

Having thus described my invention, what I claim is—

1. In combination, the frame, the rotary spindle for holding the fruit or vegetable to be
 55 pared, the knife, the arm carrying the same, the rack-bar and pawl and the movable bar operated from a cam portion of the spindle and extending therefrom for operating the rack, substantially as described. 60

2. In combination, the frame, the rack-bar and guiding-bar supported thereby, the spindle with means for rotating the same, the casing carrying a detent, the means for reciprocating said rack-bar to feed said casing along
 65 said guiding-bar, the arm under spring-tension pivotally supported from said casing, and the knife carried by said arm, substantially as described.

3. In combination, the frame, the reciprocating rack-bar and guiding-bar carried thereby, the casing, the means for automatically moving said casing along said guiding-bar during the forward reciprocation of said rack-bar, the spring attached to said casing and
 75 frictionally engaging said guiding-bar whereby the backward movement of said casing is prevented on the backward reciprocation of the rack-bar and the arm and knife carried by said casing and pivotally supported there- 80 from.

4. In combination, the frame, the rack-bar having an inclined end, the vertically-moving plunger, the roller carried thereby and adapted to ride on said incline, the spindle, 85 the means for rotating the same whereby said plunger is operated and said rack-bar reciprocated in a forward direction, the spring for returning said bar, and the cutting-knife adapted to be fed forward by the reciprocation 90 of said rack-bar, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CARL HUGO WOLF.

Witnesses:

GUSTAV OTTO GÖSCHEN,
 RUD. E. FRICKE.