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C. E. SEGELCKE.

COMBINED GRATER, PARER, AND CORER.

APPLICATION FILED AUG. 30, 1907.

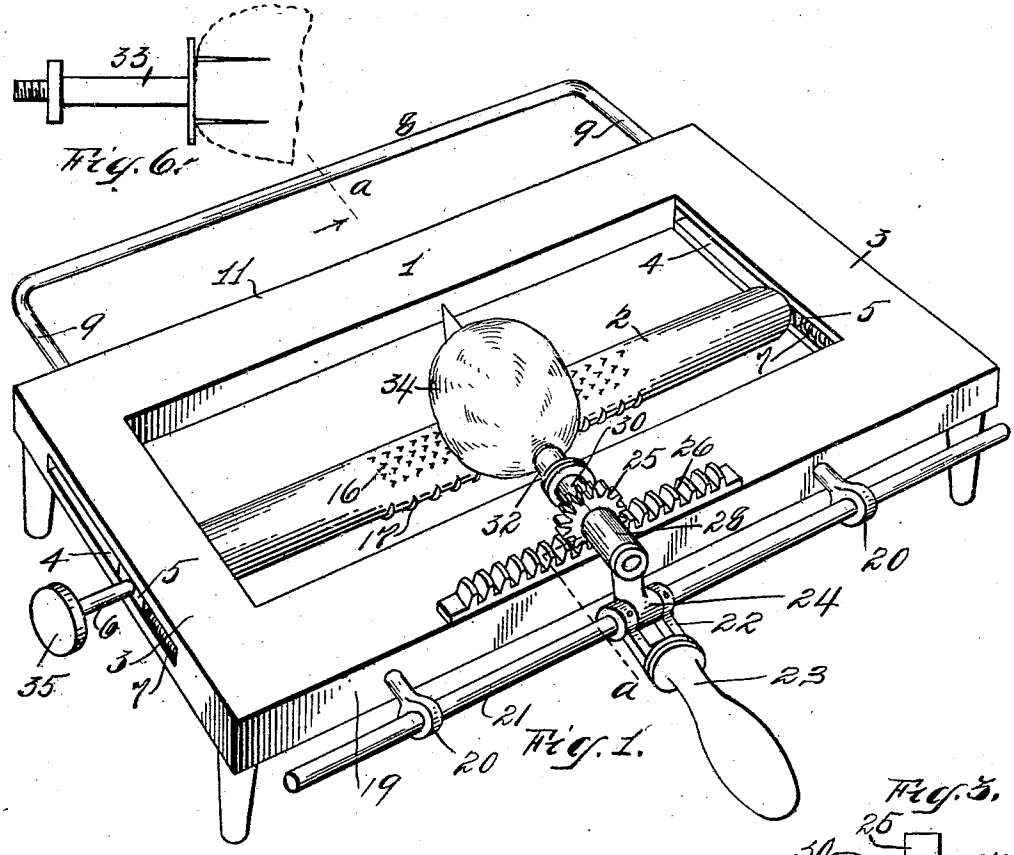


Fig. 6.

Fig. 1.

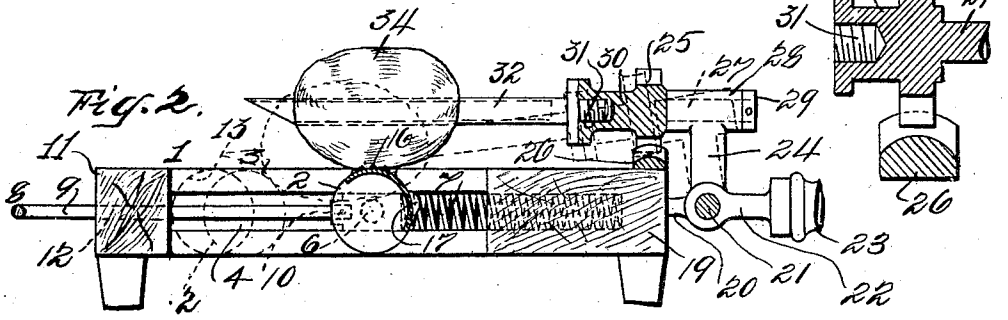


Fig. 2.

Fig. 3.

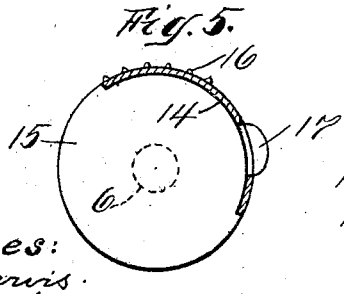


Fig. 5.

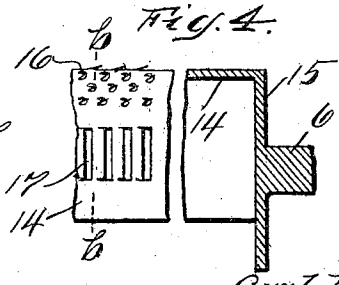


Fig. 4.

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COMBINED GRATER, PARER, AND CORER.

No. 879,417. Specification of Letters Patent. Patented Feb. 18, 1908.

Application filed August 30, 1907. Serial No. 390,698.

To all whom it may concern:

Be it known that I, CARL E. SEGELCKE, a subject of the King of Denmark, residing at New York city, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in a Combined Grater, Parer, and Corer, of which the following is a clear, full, and exact description.

This invention relates to a combined grating, paring and coring device adapted for vegetables or fruits.

The object of the invention is to provide a cheap and efficient device by means of which I can grate vegetables or fruits, pare the same, or core the said vegetable or fruits, the said functions being performed by the same machine by a slight change of position of the parts thereof.

To these and other ends which will hereinafter appear, my invention comprises the novel features of improvement and combination and arrangement of parts which I will now proceed to describe and finally claim, reference being had to the accompanying drawing, forming part hereof, wherein—

Figure 1 is a perspective view of a device embodying my improvements; Fig. 2 is a cross sectional view thereof, the section being taken on a line *a*—*a* in Fig. 1 and looking in the direction of the arrow; Fig. 3 is an enlarged detail sectional view of the operating gear and rack; Fig. 4 is an enlarged fragmentary detail view, partly in section, of the rotatable grating and paring device; Fig. 5 is a cross sectional view thereof, the section being taken on a line *b*—*b* in Fig. 4; Fig. 6 is a view in elevation of another form of chuck for holding vegetables or fruits that have no cores.

Like numerals of reference are intended to indicate corresponding parts in the several views.

Referring to the drawing, the numeral 1 indicates a standard, which is provided with a slidable rotatably mounted semi-cylindrical combined grating and cutting tool, which is indicated by the numeral 2. Each end 3 of the standard 1 is provided with a slot 4 in which a box 5 is adapted to slide. The boxes 5 rotatably support the tool 2 by means of trunnions 6, one only being shown in Fig. 1. The boxes 5 are opposed by a spring 7, one at each end of the standard 1, as shown in Fig. 1. The tool 2 is moved transversely of the standard 1 by means of a bar 8, the members 9 of which are attached to the boxes 5, as at 10, Fig. 2. Said members 9 pass through the front member 11 of the standard 1, as at 12, Fig. 2. The spring 7 normally keeps the tool 2 adjacent to the front member 11 of the standard 1, as shown by dotted lines 13 in Fig. 2.

As shown in Fig. 5 the tool 2 comprises a semi-cylindrical shell 14, each end of said tool having a head 15 (Fig. 4) which carries the trunnions 6, a portion of the said shell 14 being struck up to form grating teeth 16, of the usual form, and another portion of said shell 14 being struck up to form knives 17. The rear member 19 of the standard 1 is provided with eyes 20 which slidably support a bar 21. To the said bar 21 I secure a fork 22, which carries a handle 23, and between the members of the fork 22 I pivotally mount a bracket 24, the said bracket being carried by the rod 21 and has no connection with the fork 22. The bracket 24 rotatably supports a gear 25 which is adapted to mesh with a rack 26 on the standard 1, a spindle 27 on the gear 25 passing through the hub 28 of the bracket 24, and a collar 29 being employed to keep the gear 25 in position. The gear 25 also carries a neck 30 which is provided with a threaded opening 31, the object of which is to adapt the neck to rotatably support a coring tool 32, or a pronged chuck 33 (Fig. 6.) The coring tool 32, as seen in Fig. 2, can be of the ordinary tubular variety. If I desire to grate or pare a vegetable or fruit that has no core, I simply unscrew the coring tool 32 and place the threaded end of the pronged chuck 33 in the opening 31 of the neck 30 on the gear 25.

The operation of the device is as follows: As has been stated, the tool 2 is normally kept adjacent to the front member 11 of the standard 1 by the spring 7 and in consequence thereof will be away from contact with any vegetable or fruit that may be placed on the corer 32 or chuck 33. Take for example, an apple which I desire to core, pare and grate: The corer 32 having been placed in position, I lift the said corer upwardly, the bracket 24 swinging on the rod 21; I then force the apple over the corer 32, which will take the core from the said apple, which is indicated by 34 (Figs. 1 and 2). I then allow one end of the apple to come in contact with the knives 17 of the tool 2, the said knives having been brought to their upper-most position by turning the thumb wheel 35. As this

position of the apple will be the commencement of the paring operation the rotating mechanism, as well as the bracket 24 will lay at a downward angle as shown by dotted lines in Fig. 2. By grasping the handle 23 and imparting to the mechanism a reciprocating movement the gear 25 and corer 32 will be caused to revolve due to the meshing of the said gear 25 and rack 26. As the handle 23 is moved backward and forward the corer 32 and apple thereon will be constantly rotating, and as the rotation continues I gradually move the tool 2 inwardly against the spring 7 whereby the whole surface of the apple will be pared. The apple will be caused to rise and fall in conformity with its shape due to the pivotal connection of the bracket 24. After having pared the apple I can turn the tool 2 to bring the grating surface uppermost, and the operation will repeat in a manner described for the paring operation.

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

1. A combined grating, paring and coring device comprising a standard, a carrier slidably mounted on said standard, a coring device carried by said carrier, means for rotating said coring device, and a combined rotatable grating and paring tool adjacent to said coring device.

2. A combined grating, paring and coring device comprising a standard, a carrier slidably mounted on said standard, a coring device carried by said carrier, means for rotating said coring device, and a transversely movable combined grating and paring tool adjacent to said coring device.

3. A combined grating, paring and coring device comprising a rotatable coring device, a combined grating and paring tool adjacent to said coring device comprising a semi-cylindrical rotatable shell having upon the periphery thereof a grating surface and paring knives.

4. A combined grating, paring and coring device comprising a rotatable coring device, a combined grating and paring tool adjacent to said coring device comprising a transversely movable semi-cylindrical rotatable shell having upon the periphery thereof a grating surface and paring knives.

Signed at New York city this 29 day of August, 1907.

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