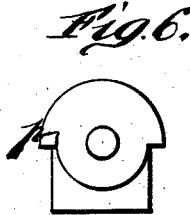
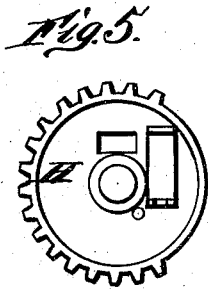
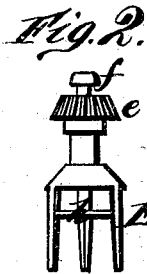
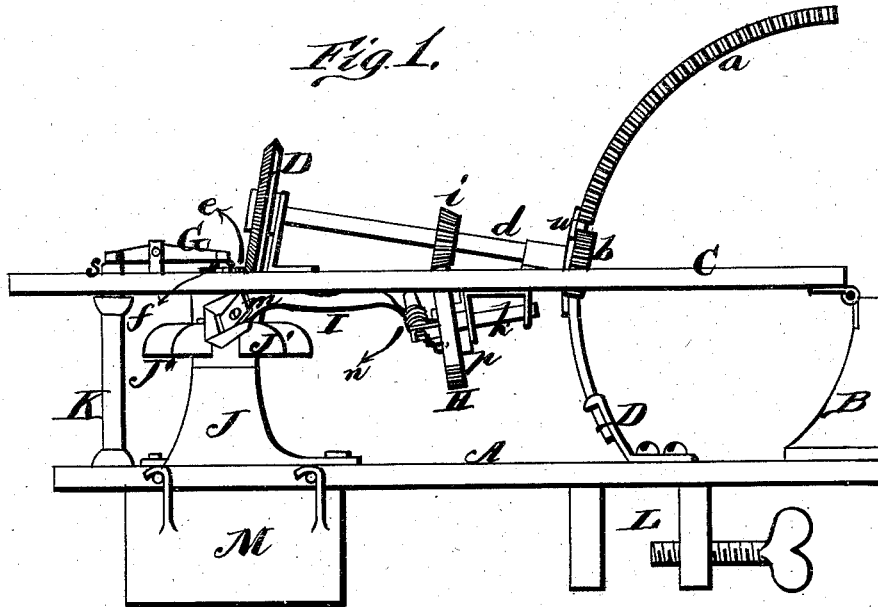


G. R. THOMPSON.  
VEGETABLE AND FRUIT-SLICERS.

No. 194,191.

Patented Aug. 14, 1877.



*Fig. 7.*

WITNESSES  
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INVENTOR.

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

GEORGE R. THOMPSON, OF QUINCY, ILLINOIS.

## IMPROVEMENT IN VEGETABLE AND FRUIT SLICERS.

Specification forming part of Letters Patent No. 194,191, dated August 14, 1877; application filed June 30, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE R. THOMPSON, of Quincy, in the county of Adams and State of Illinois, have invented a new and valuable Improvement in Machines for Paring, Coring, and Slicing Apples; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my machine for paring, coring, and slicing apples. Figs. 2, 3, 4, 5, 6, and 7 are details of the same.

The nature of my invention consists in the construction and arrangement of a machine for paring, coring, and slicing apples, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

A represents the base or foundation board of my machine, provided at one end with a standard, B, to which a lever, C, is hinged. D is a quadrant, secured to the base A, and formed or provided on one edge with a cogged segment, *a*. The quadrant D passes through a slot in the lever C, and the cogged segment *a* takes into or meshes with a spur-pinion, *b*, secured on the end of a shaft, *d*, which is held in an inclined position in suitable bearings on top of the hinged lever C. On the front end of the shaft *d* is secured a beveled cog-wheel, D, which meshes with and operates a bevel-pinion, *e*, on the shaft of the fork E, said fork projecting on the under side of the lever C, as shown. Within the fork E is a plate, *h*, notched for the prongs of the fork to fit in, and from said plate projects a stem, *f*, up through the pinion *e*, and on top of the lever C is pivoted a small lever, G, in such a manner that one end thereof will come down on the end of said stem *f*. On the shaft *d*, at any suitable point between the gears *a* and D, is secured a spur-pinion, *i*, which meshes with a partial spur-wheel, H, secured on a short shaft, *k*, hung in bearings below the lever C, and the wheel projecting through a slot in said lever. On the front side of the wheel H, to a stud projecting from the same,

is pivoted an arm, I, formed at its outer end with a suitable head, for carrying the paring-knife *m*. This arm is actuated by a spring, *n*, and from its inner end projects a finger, *l*, through a slot in the wheel, to come in contact with a cam, *p*, attached to one of the bearings for the shaft *k*. On the bed A is secured a conical cover, J, provided with radial blades *J'* for slicing the apple. At this end of the bed is a post, K, with tenon *s* at its upper end, which tenon, when the lever C is brought down, projects through a hole in the same, to operate the lever G.

The machine thus constructed is fastened to the edge of a tub by means of a clamp and set-screw, L, on the under side of the bed, and a cup or box, M, is suspended below the cover to receive the cores and keep them separate from the sliced apples.

The operation of the machine is as follows: The lever C is raised to a nearly perpendicular position. The finger *l*, then resting on the cam *p*, brings the paring-knife *m* away from the fork. The apple is now placed on the fork E, which presses up the plate *h*, so that its stem *f* will project above the pinion *e*. The lever C is then brought down, when the cogged segment *a* on the quadrant D, by the intermediate gearing, as described, rotates the fork, and also the wheel carrying the paring-knife. By this motion the apple is pared, for, as the finger *l* passes off from the cam *p*, the spring *n* throws the paring-knife inward, so as to complete the paring.

The apple is pressed down on the corer and its radial arms, whereby it is cored and sliced, the pieces falling down over the sides into the tub. As the lever C is brought down to its place the tenon *s* on the post K passes through the hole in the operating-lever C, and presses up one end of the lever G, so that the other end thereof will press down the stem *f*, whereby the plate *h* is forced down, releasing the core from the fork, and causing it to fall through the corer into the cup underneath.

To prevent the working parts from getting out of proper position when the pinion *b* is down below the cogged segment *a* on the quadrant D, said pinion is formed with a projection, *t*, that rides on a guide, *w*, attached

to said quadrant below the cogged segment. By this means the shaft *d* cannot be rotated, and the pinion is held in position to take into the cogged segment properly.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for paring, coring, and slicing apples, a hinged or pivoted lever, carrying the fork, the parer, and the mechanism for operating the same, substantially as herein set forth.

2. The combination of a hinged or pivoted lever, carrying the fork and the parer, and a stationary quadrant, with a cogged segment for operating the same, as set forth.

3. A stationary base, with coring and slicing devices attached thereto, and a hinged or pivoted lever, carrying the fork and the parer, all combined and arranged substantially as and for the purposes herein set forth.

4. The combination of the stationary quad-

rant D, with cogged segment *a*, lever C, shaft *d*, with gears *b* D *i*, fork E, with pinion *e*, gear-wheel H, paring-arm I, and spring *n*, all substantially as and for the purposes herein set forth.

5. The combination of the paring-arm I, finger I', and cam *p*, substantially as and for the purposes herein set forth.

6. The plate *h*, with stem *f*, in combination with the fork E and lever G, substantially as and for the purposes set forth.

7. The projection *t* on the pinion *b*, in combination with the guide *w* on the quadrant D, as and for the purposes herein set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE R. THOMPSON.

Witnesses:

J. N. THOMPSON,

L. E. EMMONS.