C. J. GARDNER.

Vegetable-Cutter.

No. 212,921 Patented Mar. 4, 1879.

Fig. 1.

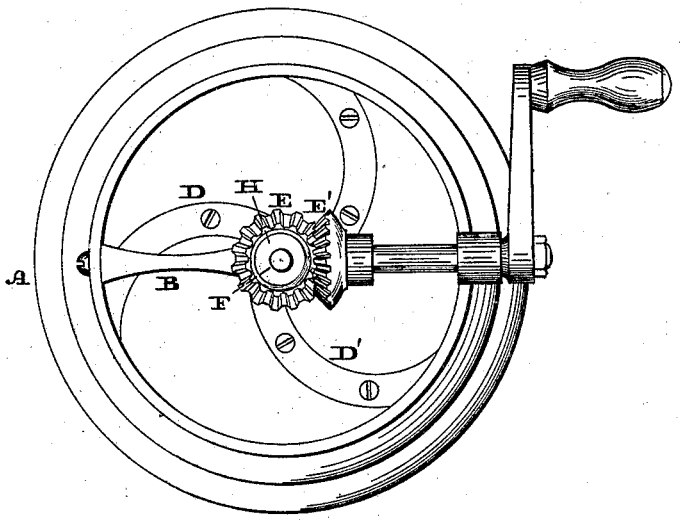


Fig. 2.

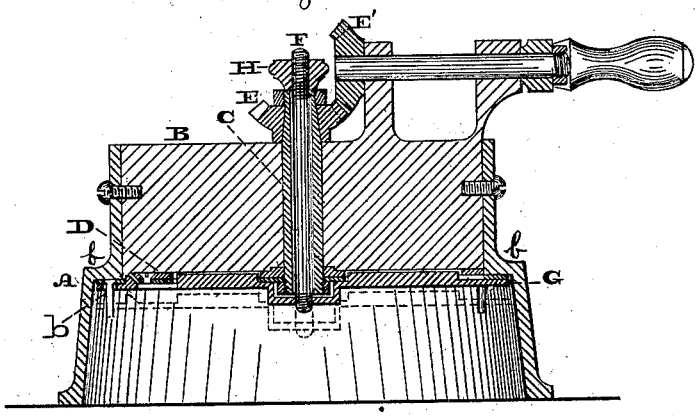


Fig. 4.

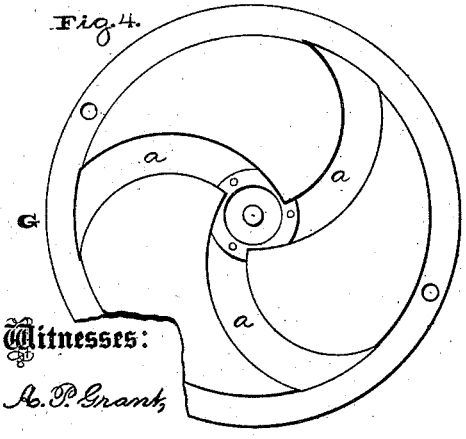
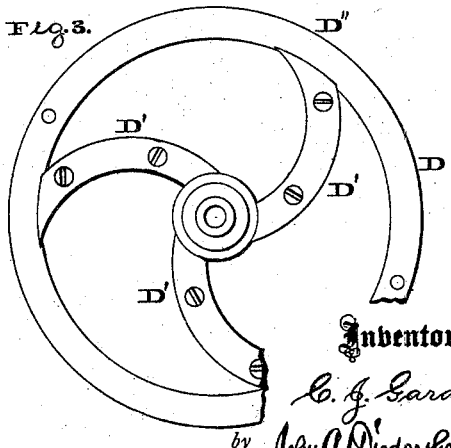


Fig. 3.



Witnesses:

A. P. Grant,

H. F. Kircher

Inventor:

C. J. Gardner,

by John A. Wiedersheim

ATTORNEY.

UNITED STATES PATENT OFFICE.

CHARLES J. GARDNER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO WM. L. McDOWELL AND GEORGE BOOTH, OF SAME PLACE.

IMPROVEMENT IN VEGETABLE-CUTTERS.

Specification forming part of Letters Patent No. **212,921**, dated March 4, 1879; application filed September 30, 1878.

To all whom it may concern:

Be it known that I, CHARLES J. GARDNER, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Meat and Vegetable Cutters, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a top or plan view of the cutter embodying my invention. Fig. 2 is a central vertical section thereof. Fig. 3 is a face view of a skeleton-knife. Fig. 4 is a face view of the adjusting-wheel.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a knife suspended from a hollow shaft, in combination with a spindle passed through said shaft, carrying a wheel or bed, and provided with an adjusting-nut, whereby the knife and wheel or bed have a common axis, and the adjustment may be accomplished by means of a single nut.

Referring to the drawings, A represents a cylindrical or other shaped case, which is open at top and bottom; and B represents a cross head or bar, which is secured to or cast with said case, and is formed with a vertical opening, through which is passed a hollow shaft, C, which may be supported at its upper or lower end. To the shaft, at opposite ends, there are secured a knife, D, and bevel-pinion E, which latter is geared with a pinion, E′, secured to a shaft, to which power is communicated from a crank-handle, pulley, or other means, whereby rotation may be imparted to the knife D.

Through the hollow shaft C is passed the spindle F of a wheel, G, which is held in position against the knife D by a nut, H, which, fitted to threads on the spindle and bearing against the upper end of the shaft, also admits of the adjustment of said wheel.

The knife is of skeleton form, the blades D′ whereof, radiating from a hub, are curved, whereby they make a draw-cut their entire length, and their outer ends are connected by a circumferential rim, D″, for strengthening purposes.

The wheel G is placed adjacent to the under side of the knife, and it has a series of throats, *a*, each of which is of the contour of the blades of the knife.

It will be noticed that by raising and lowering said wheel G by means of the nut H, the spaces between the cutting-edges of the blades and the adjacent walls of throats are decreased or increased; consequently the extent of the cut is regulated or adjusted.

In order to cause the blades and throats to coincide, lugs or pins *b* project from the rim D″ and enter openings in the wheel G, thus also assisting the nut H in causing the knife and wheel to move as one.

The rim of the knife is below the blades thereof, and the case is formed with a horizontal shoulder, *b*, which overhangs said rim, whereby the rim is prevented from coming in contact with the article to be cut; and when the sliced article enters the space of the knife and wheel or bed, any upward strain on the knife is received by the rim, which bears against the shoulder *b* as a stop, and friction of the blades and head B is prevented.

The operation is as follows: The article to be cut is placed in the case A on the wheel G, and against the cross-head B. Power is now applied to the gearing E E′, and the knife and wheel rotate. The knife, cutting from the bottom of the article, slices or lengths equal in thickness to the uncovered spaces of the adjusted throats, and said slices fall through the throats into the lower portion or bottom of the case, where they are inclosed and may be collected, or where, if desired, a drawer may be provided for such collection.

The cutting is easily and quickly accomplished, the knife conveniently removable for sharpening, &c., the apparatus may be readily kept clean, and the parts are few, simple, and compact.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The knife D, suspended from the hollow shaft C, in combination with the spindle F, passed through said shaft, carrying the wheel or bed G, and provided with the single adjusting-nut H, substantially as and for the purpose set forth.

C. J. GARDNER.

Witnesses:
JAMES MAHONEY,
JOHN A. WIEDERSHEIM.