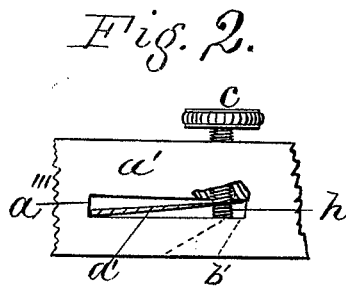
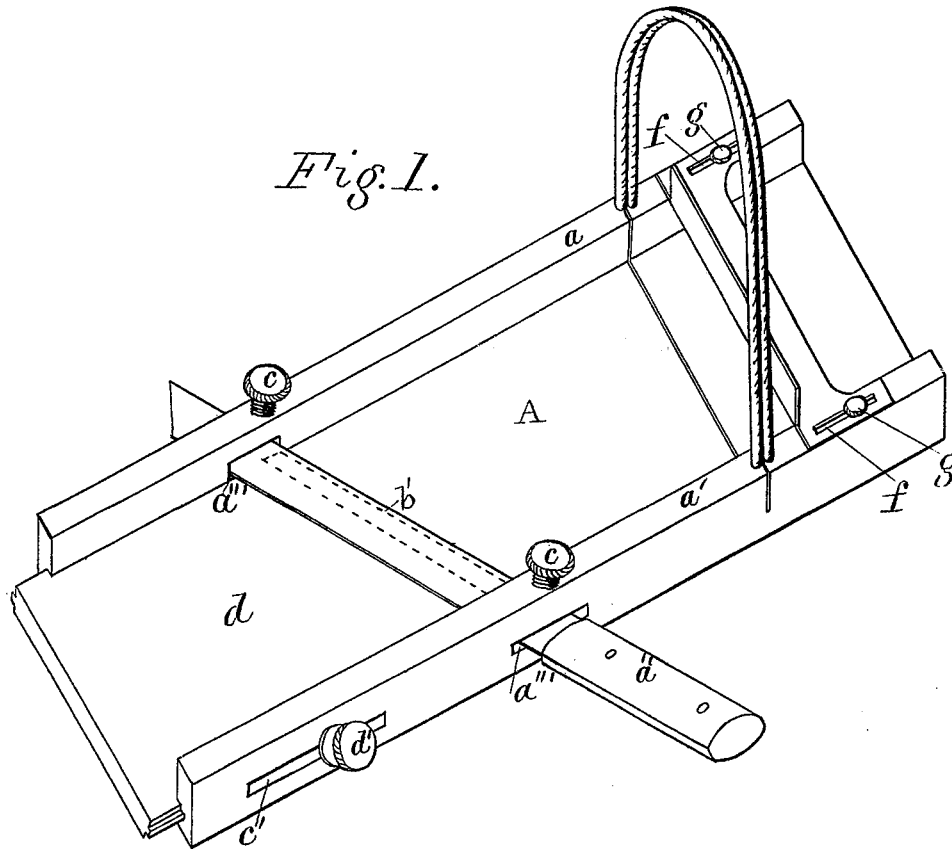


N. H. ANDREWS.
Vegetable-Slicer.

No. 221,436.

Patented Nov. 11, 1879.



Attest.
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UNITED STATES PATENT OFFICE.

NAHUM H. ANDREWS, OF SPRINGFIELD, OHIO.

IMPROVEMENT IN VEGETABLE-SLICERS.

Specification forming part of Letters Patent No. 221,436, dated November 11, 1879; application filed August 23, 1879.

To all whom it may concern:

Be it known that I, NAHUM H. ANDREWS, of the city of Springfield, in the county of Clarke and State of Ohio, have invented certain new and useful Improvements in Vegetable-Slicers, which improvements are fully, clearly, and concisely set forth in the following specification and in the drawings accompanying the same.

My invention relates to a vegetable-slicer having a knife-guide attached to its side rails, so as to adapt it for use also as a bread-cutter, a single knife serving for both purposes.

Figure 1 is a perspective view of my improved machine for slicing vegetables. Fig. 2 is a sectional view of one of the clamping devices for adjusting and holding the knife.

A plank or board, A, of sufficient width is used as a bottom board. This is divided in two pieces at the throat *b'*, (seen in dotted lines,) so as to allow the piece *d* to slide in or out to adjust the size of the throat under the knife *a''* when cutting cabbage or other vegetables. *a a'* are rails on each side, such as are used in ordinary kraut-cutters, with the exception of being slotted at *a'''* by a transverse slot, so as to admit the knife *a''* flatwise across the board when using it for cutting cabbage. The slots *a'''* are made just above the top surface of the bottom board, and are made of width sufficient to give the knife-blade any required inclination. The knife-blade is held in its position by thumb-screws *c c*, which pass down through the rails *a a'* upon the front part of the blade, near its edge, as seen in Fig. 2. Under the blade opposite to the screw *c* is seen a spiral spring, *h*. This spring elevates the edge of the knife-blade to any required degree by unscrewing the thumb-screw *c*, and serves, in connection with said screw, to retain it in position when adjusted.

In the front rail, *a'*, near the left end, is another longitudinal slot extending transversely through the rail, similar to slots *a'''*. This slot *c'* is for the insertion of the thumb-screw *d'*,

which is used to adjust the movable section *d* of the bottom board in regulating the size of the throat-opening *b'*.

At the right end of the machine is seen the arrangement for slicing bread.

The operative parts of this device, separately considered, are not new, and I do not therefore claim them, except in the combination shown. It consists of bent wires or rods, which are similar in construction and purpose to knife-guides for cutting tobacco and for other like purposes. I use, however, in connection with these bent wires, an adjustable gage extending entirely across the machine in front of the guide, and resting upon the side rails, *a a'*.

In operating the machine as a vegetable-slicer, the knife *a''*, which can be used as a bread-slicer in the guide, is inserted through the slots *a'''* over throat *b'*, across the board A in the position shown in the drawings, and secured in adjustment by thumb-screws *c*. The gage is then loosened at one end and swung around out of the way, or removed altogether, so that the board A is clear, and the cabbage or other vegetable to be sliced is slid along against the knife from right to left, as in ordinary kraut-cutters.

I claim as my improvement—

1. A vegetable-slicer having arched guides and gage attached to its side rails, whereby it is adapted for use both as a vegetable-slicer and bread-cutter.

2. In a machine for slicing or cutting vegetables, wherein the knife is used in a relatively flat position, as hereinbefore described, the spiral spring *h*, in combination with the thumb-screw *c*, the knife *a''*, the slot *a'''*, and rails *a a'*, for the purpose of securing the proper adjustment of said knife, and allowing it to be readily removable therefrom at will, for the purpose set forth.

NAHUM H. ANDREWS.

Attest:

F. H. PENFIELD,
B. C. CONVERSE.