

WILLIAM H. PIERCE.

Improvement in Meat and Vegetable-Choppers.

No. 114,594.

Patented May 9, 1871.

Fig. 1

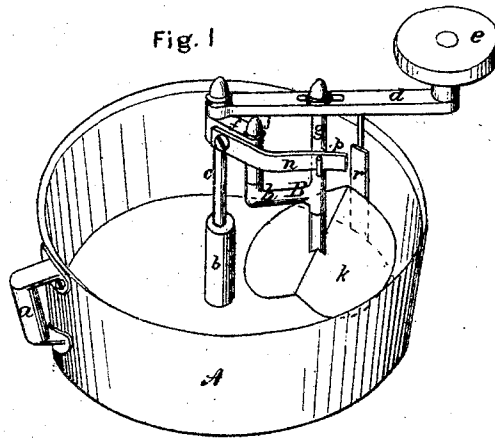
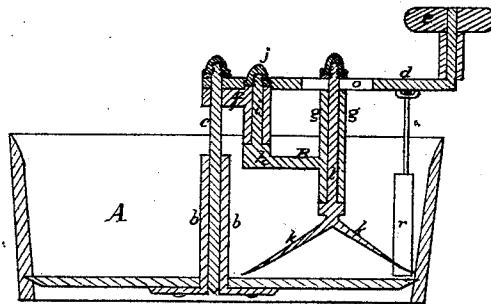


Fig. 2



Witnesses
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WILLIAM H. PEIRCE, OF BANGOR, MAINE.

Letters Patent No. 114,594, dated May 9, 1871.

IMPROVEMENT IN MEAT AND VEGETABLE-CHOPPERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM H. PEIRCE, of Bangor, in the county of Penobscot and State of Maine, have invented a new and useful or improved Meat and Vegetable-Chopper, of which the following is a specification.

This invention relates to improvements upon culinary machines employed in reducing meat, vegetables, and other articles of food to a sufficient degree of minute subdivisions for use as articles of food; and

The invention consists, in a tray or receptacle for holding the material to be cut, and a peculiarly-formed knife, arranged upon a vertical spindle, and revolved by contact with the interior walls of the tray, the spindle upon which the knife is secured being connected with a hinged adjustable bracket, which is actuated by a spring, which thereby preserves the constant pressure of the knife in a direction radial from the center of the tray, as will be hereinafter more fully described.

In the accompanying drawing—

Figure 1 is a perspective view, and

Figure 2 is a vertical section taken through the axis of the horizontal arm or sweep.

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

In the drawing—

A represents the receptacle, which is cylindrical in form, and of a suitable depth for the use intended.

a is a handle secured to tray or bowl A, as shown, for convenience in using.

b is a tube secured to the bottom of tray A, as is plainly shown in fig. 2.

c is a spindle, which rotates and slides vertically in tube *b*.

Upon spindle *c* is secured the horizontal arm *d*, upon the outer end of which is pivoted the hand-knob *e*.

f is an elbow, the horizontal end of which is fitted to vibrate freely upon spindle *c*, while the vertical part is hollow or tubular, as is plainly shown in fig. 2.

B is a bracket, the part *g* being hollow; *h* is the horizontal part thereof, while part *i* is fitted to revolve freely in the hollow part of elbow *f*, a screw-nut, *j*, fitted upon stem *i*, serving to hold it in place.

k is the cutting-blade, which is formed with an angle, as if constructed of two intersecting planes, as is plainly shown in figs. 1 and 2.

This knife is centrally attached to the vertical spindle *l*, which passes through the hollow part *g* of bracket B, and also through a slot, *o*, in arm *d*, as shown, a cap-nut serving to hold it in place.

n is a spring, one end of which is secured to bracket *f*, while the other is secured, by a small pin, *p*, in tube *g*, as shown in fig. 1.

r is a scraper, which, following the knife *k* as it passes round the vessel, serves to detach the adhering particles from the sides, in order that the knife may act upon them with greater effect.

As the spindle *l* slides freely in slot, *o*, and elbow *f* and arm *h* of bracket B are at an angle with arm *f*, therefore the tendency of spring *n* is to press the knife outward or against the side of the vessel, as before stated.

In use, the cutting attachment may be raised to any desired height, as spindle *c* slides freely up and down in tube *b*, when, by means of knob *e* and arm *d*, the whole may be rotated relatively to the vessel, whereby knife *k* will, by its contact with the material to be cut, rotate upon its own axis, thereby constantly acting upon and reducing to particles whatever is being cut; and as the rotation goes on the knife and connected parts will slowly move downward, thereby acting upon the entire mass. By reason of the peculiar form of the knife it will not run between the larger particles, but subdivides them with efficient certainty.

Having thus described my invention,

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

1. The angular knife *k*, substantially as and for the purposes specified.

2. The combination of knife *k*, bracket B, elbow *f*, spring *n*, and lever *d*, substantially as described and shown.

3. In combination with stationary vessel A, the cutting-knife rotating upon its own axis, and also traversing the circuit of the vessel, substantially as and for the purposes described and shown.

WILLIAM H. PEIRCE.

Witnesses:

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