

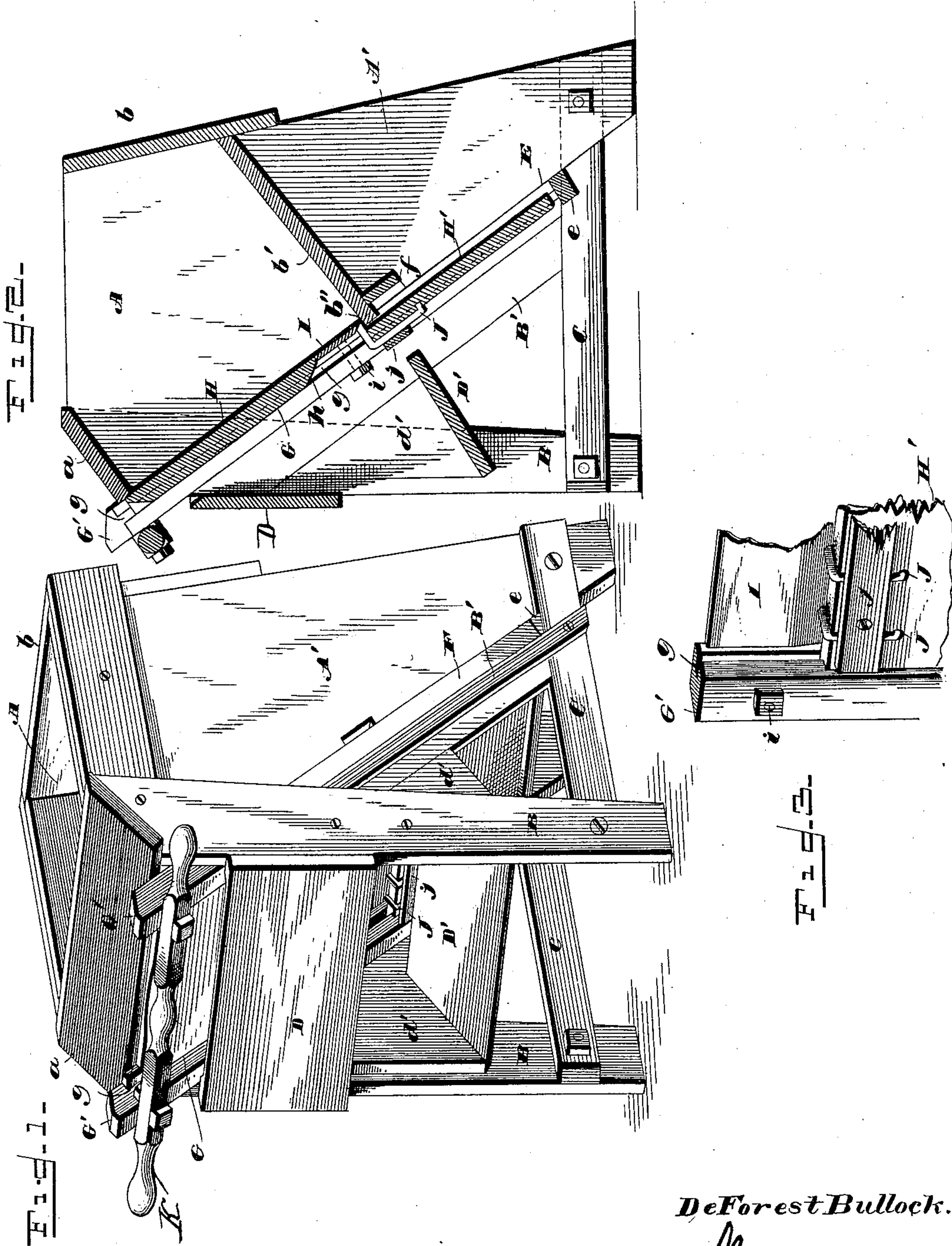
(No Model.)

DE FOREST BULLOCK.

VEGETABLE CUTTER.

No. 366,920.

Patented July 19, 1887.



WITNESSES

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VEGETABLE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 366,920, dated July 19, 1887.

Application filed January 27, 1887. Serial No. 235,696. (No model.)

To all whom it may concern:

Be it known that I, DE FOREST BULLOCK, a citizen of the United States of America, residing at Busti, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Vegetable-Cutters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in vegetable-cutters; and it consists in the construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims, the present invention being designed as an improvement upon my patent dated February 2, 1886, No. 335,500.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of a vegetable-cutter constructed in accordance with my improvement. Fig. 2 is a vertical sectional view, and Fig. 3 is a detail perspective view.

A refers to a hopper, which is provided near its upper end with a rear cross or back piece, *a*, which is inclined, as shown, said hopper being also provided at its front portion with a cross-piece, *b*, and also with an inclined bottom, *b'*, these three pieces being rigidly attached to the side pieces *A'*, which extend downwardly, so as to form rests or supports. To the side pieces *A'* are also rigidly attached legs or supports *B*, inclined braces *B'*, and horizontal bars *C*, to which the lower ends of the side pieces and inclined braces are attached.

The frame hereinbefore described is also provided at its rear portion with a transverse board, *D*, and with an inclined board, *D'*, which is almost in a line with the bottom board, *b'*, of the hopper. This inclined board *D'* is provided with annular side pieces, *d'*, which will fill the space above the same and under the reciprocating cutter.

It will be observed by the construction shown that the frame is provided with an inclined

slot, *E*, within which the reciprocating cutter may be moved, the upper portion or edge of this slot being formed by the inclined edges of the side pieces *A'*, while the lower edge is formed by the upper edge of the bars *B'*. Adjacent to the upper edge of the bars *B'*, so as to extend above the same, are secured stops *F*, against which the sides of the reciprocating cutter abut, so as to prevent lateral movement of the same, and excessive downward movement of the frame of the reciprocating cutter is prevented by a cross-bar, *e*, which is secured at the bottom of the slot to the horizontal bars *C C*. This bar *e*, besides serving as a stop for the reciprocating cutter, also serves for a transverse brace for the lower portion of the frame.

The inclined bottom *b'* of the hopper has its lower edge extended, so as to project in the path of the cutter, as shown at *b''*, and the lower edge of this inclined bottom is supported by a transverse bar, *f*, which is secured within the recess in the side pieces, *A'*.

The reciprocating slide *G* consists of parallel side pieces *G'*, which are provided with longitudinal recesses, *g*, within which recesses are secured bars *H* and *H'*, the board *H* being of suitable thickness and having a tongue, which lies within the groove or recess *g*, so as to bring the upper edge of the board on a line with the upper edge of the side pieces *G'*. The upper edge of the board *H'* is also provided with a tongue, so that the upper edge of said board will be parallel or flush with the grooves *g*. The lower edge of the board *H* is beveled, as shown at *h*, and between the boards *H* and *H'* is a space or opening, within which is arranged a knife-blade, *I*, said knife-blade having its lower edge sharpened. This blade is secured within suitable recesses in the side pieces *G' G'* by bolts *i*. The under sides of the recesses are cut so as to conform with the configuration of the under side of the blade *I*.

By the construction shown a space is provided between the lower or sharpened edge of the blade and the board *H'*. To the under side of the board *H'* are attached a series of bent bars, *J*, the upper edges of which are bent at right angles, so as to abut against the sharpened edge of the blade *I*, and the portions of

these bent bars J which extend across the space formed between the upper edge of the board H' and the lower portion of the blade I are sharpened. These bent bars are not only
 5 secured adjacent to the upper edge of the rear side of the board H', but are also secured in place by the transverse bar j, which extends across the rear upper edge of the board H', as shown. The reciprocating slide is adapted to
 10 work free in the grooves of the frame, and is provided with a transverse operating-handle, K, the hand-grasping portions of which extend beyond the frame.

The operation of my invention is as follows:
 15 The vegetables or roots to be cut are placed in the hopper and will collect by gravity in the lower portion thereof, resting against the face of board H and the knife. When the handle is reciprocated, the knives will cut the vegetable
 20 or root, so that the pieces will be severed in short lengths and will fall upon the board D', and thence into a suitable receptacle, which may be placed under said board.

It will readily be seen by the construction
 25 hereinbefore described that the knife will cut when reciprocated under the opening in the hopper, and that the downward movement of the knife will be limited by coming in contact with the projecting end b'' of the bottom board,
 30 b', and that by providing the reciprocating slide with a board, H', which moves in close proximity to the projecting portion b'' of the board b', this projecting portion will fill the space between the side pieces of the reciprocating cutter, so as to prevent the vegetables
 35 falling out of what would otherwise be an opening, and that when the slide is raised the vegetables or roots will rest upon the board H', and will be in line with the knife, so that the same

will operate thereon when the slide is de- 40 pressed. The bars J, which are provided with knife-edges, will cut the vegetables in short lengths as they are severed in strips by the transverse knife I. The cutting portions of
 45 the bars J abut against the under side of the knife-blade and serve to prevent the same vibrating, and their opposite ends, which may be pointed, are driven into the under side of the board H', so as to brace these bars against
 50 displacement.

I claim--

1. In a vegetable-cutter, the combination of the frame, provided with a hopper having an inclined bottom board, an open side, and
 55 grooves E parallel with said open side, and a slide mounted in said grooves and provided with boards H H' and slicing-knife I, the bent
 60 slitting-knives J, constructed and arranged as described, and a removable strip, j, bearing upon the backs of the slitting-knives.

2. A slide for vegetable-cutters, consisting of grooved side pieces G', boards H H', arranged one in advance of the other, with a space
 65 between their adjacent edges, a slicing-blade secured within said space flush with the upper board, H, bent slitting-blades secured at the
 70 back of board H' and extending forward to abut against the cutting-edges of the slicing-blade, and a removable strip, j, secured to the backs of the slitting-knives, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DE FOREST BULLOCK.

Witnesses:

GEORGE W. MERCHANT,
 NATHAN BREED.