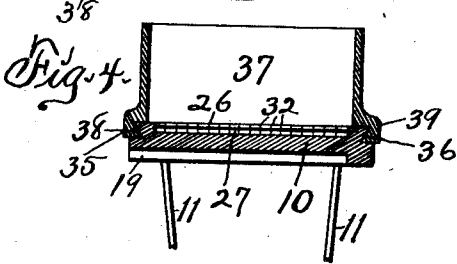
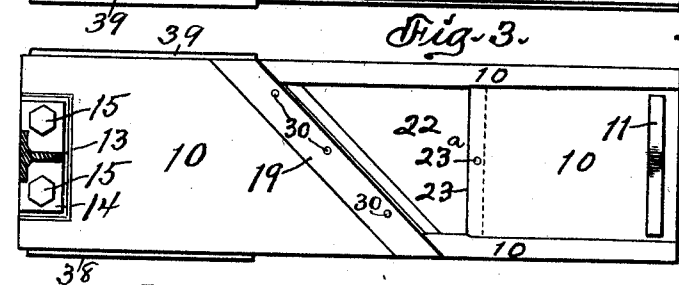
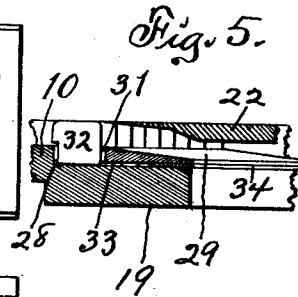
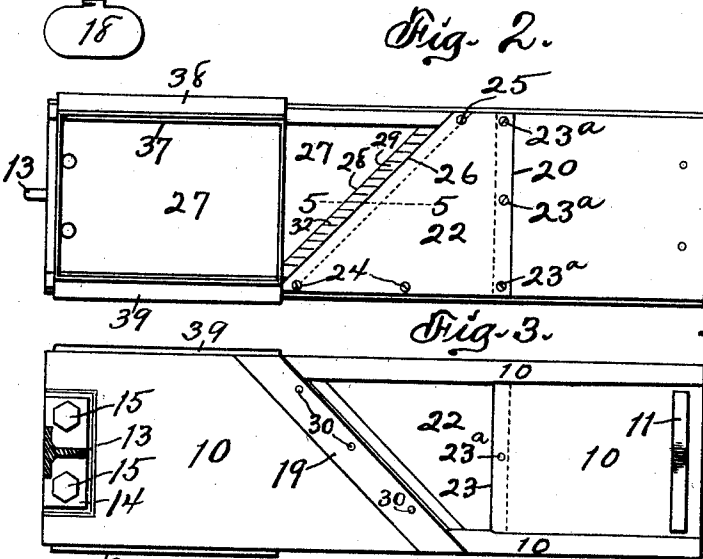
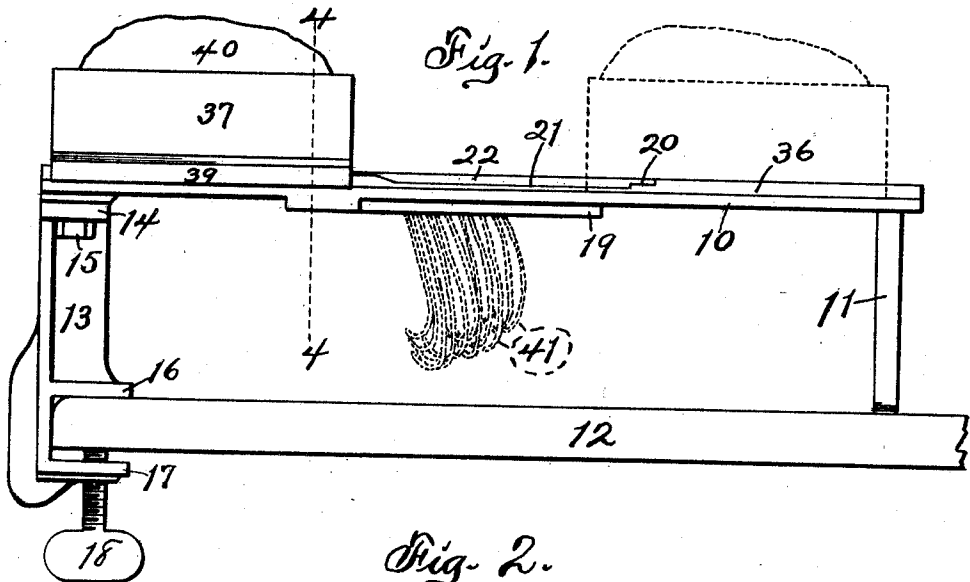


L. W. VEITCH.
 VEGETABLE CUTTER.
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1,003,674.

Patented Sept. 19, 1911.



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UNITED STATES PATENT OFFICE.

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VEGETABLE-CUTTER.

1,003,674.

Specification of Letters Patent. Patented Sept. 19, 1911.

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To all whom it may concern:

Be it known that I, LESLIE W. VEITCH, citizen of the United States of America, and resident of Des Moines, Polk county, Iowa, have invented a new and useful Vegetable-Cutter, of which the following is a specification.

The object of this invention is to provide an improved construction for a vegetable cutter adapted to make and produce "shoe-strings" of potatoes or to slice and slit the slices of vegetables of any desired kind.

My invention consists in the construction, arrangement and combination of elements hereinafter set forth, pointed out in my claim and illustrated by the accompanying drawing, in which—

Figure 1 is a side elevation illustrating the complete device in position for practical use, dotted lines indicating an assumed position of the vegetable carrier and other dotted lines indicating vegetable shoe-strings being discharged from the machine. Fig. 2 is a plan of the machine. Fig. 3 is a bottom plan of the machine, a supporting bracket being shown in section. Fig. 4 is a cross-section on the indicated line 4—4 of Fig. 1. Fig. 5 is a longitudinal section on the indicated line 5—5 of Fig. 2. Figs. 2 and 3 are on a reduced scale relative to Fig. 1 and Fig. 5 is on an enlarged scale relative to Fig. 1.

In the construction of the machine as shown the numeral 10 designates a bed plate, which is supported at one end by a leg 11 adapted to rest on a table 12 and is supported at the opposite end by a bracket 13. The bracket 13 is formed with a head 14 extending transversely of the lower face of one end portion of the bed plate 10 and secured thereto by bolts 15 extending through said head and seated in the plate. The bracket 13 is formed with opposing jaws 16, 17 on its lower end portion, which jaws are adapted to embrace a marginal portion of the table 12. A set screw 18 is screwed through the jaw 17 and is adapted to engage the lower face of the table 12 and clamp said table to the jaw 16. Thus is provision made for mounting the bed plate 10 rigidly on and in parallel relations to the table 12. The bed plate 10 is formed with an obliquely arranged integral boss or rib 19 on its lower face and approximately midway between its ends and an aperture 20 formed in said bed plate in front of said boss or rib, said aperture being approxi-

mately triangular in form and bordered at its rear margin by said rib. A rabbet 20 is formed in the bed plate 10 at the forward margin of the aperture therein and seats or depressions are formed in side portions of said bed plate at the sides of said aperture, one of said seats or depressions being indicated by the numeral 21 in Fig. 1. A slicing plate 22 is mounted on the bed plate 10. The slicing plate 22 is formed with a rabbet 23 in its front marginal portion and mating with the rabbet 20 of the bed plate. The rabbeted front marginal portion of the slicing plate or knife 22 is received in the rabbet 20 of the bed plate and is secured therein by screws 23^a extending through the slicing plate and seated in the bed plate. One side margin of the slicing plate or knife 22 is received in the depression 21 and is secured to a side portion of the bed plate by screws 24. The opposite side portion of the slicing plate or knife 22 is received in the opposite side depression of the bed plate 10 and is secured therein by a screw 25. The rear margin of the slicing plate or knife 22 overlaps the rear wall of the aperture in the bed plate and is beveled on its lower side (dotted lines Fig. 2) to produce a knife edge 26.

A groove 27 is formed in the bed plate 10 and extends from the rear end of said bed plate to the aperture therein. The bottom of the groove 27 is in a plane slightly lower than and parallel with the bottom of the slicing plate or knife 22 and the top surface of said knife is flush with the remaining top surface of said bed plate. An oblique groove 28 is formed at and communicates with and in a lower plane than the forward end portion of the groove 27 and a knife bearer 29 is mounted in said oblique groove and is secured by screws 30, the lower ends of which screws extend through the boss or rib 19 as shown in Fig. 3. The upper ends of the screws are concealed by the overlapping beveled portion of the slicing plate or knife 22 in Fig. 2. The knife bearer 29 (Fig. 5) is formed with a plurality of slots 31, which slots extend longitudinally of the bed plate, are parallel with each other and open to the rear margin of the bearer. Splitting knives 32, of very thin material, are mounted in the slots 31 of the knife bearer 29 and project upwardly from said bearer in parallel planes at the rear of the knife edge 26 and contiguous thereto. Lower marginal portions

of the splitting knives 32 are bent laterally beneath the bearer 29 to form flanges 33, which flanges are confined rigidly between the bearer and the bottom of the oblique groove 28 and rigidly hold the splitting knives in upright positions in the slots of the bearer. A bushing plate 34 is mounted between the forward portion of the bearer 29 and the bottom of the oblique groove 28 and supplements the action of the flanges 33 in holding said bearer in level position. The upper face of the bearer 29 is beveled slightly in front of the splitting knives 32 to provide sufficient and desirable throat or clearance between said bearer and the slicing knife 22 for the passage of vegetable shoe-strings. Side margins of the bed plate 10 are formed with dove-tailed grooves 35, 36 extending from end to end of the plate. A vegetable carriage or carrier is provided and is formed of a rectangular (preferably one-piece) frame 37 approximating in width to the bed plate and adapted to slide on the upper surface thereof. The frame 37 is formed with parallel dove-tailed flanges 38, 39 fitting to and adapted to slide in the dove-tailed grooves 35, 36 of the bed plate. The co-acting dove-tailed construction of the grooves 35, 36 and flanges 38, 39 respectively provides an embracing relation between the vegetable carriage or carrier frame and the bed plate, which holds the carrier frame to a given line of travel longitudinally of the bed plate. The vegetable carriage or carrier frame 37 may be applied to or removed from the bed plate at either end and when mounted on the bed plate as illustrated in the drawing, said frame is adapted to receive and contain a portion of vegetable such as a potato 40.

In Fig. 1 the carrier frame 37 (containing a potato 40) is shown in initial position at the rear end of the bed plate. The carrier frame and potato are conjunctively moved longitudinally of the bed plate by manual operation into the position shown by dotted lines in Fig. 1. In such movement of the carriage the potato 40 is split on vertical lines by the knives 32 and immediately following such splitting operation

said potato is sliced on a horizontal line by the knife edge 26, thus producing a plurality of shoe-strings 41 (dotted lines Fig. 1). The carrier frame and potato are moved back to initial position without any considerable action thereon by the splitting knives and then the potato is depressed into contact with the bottom of the groove 27 and is again moved forwardly to be split by the knives 32 and sheared or sliced by the knife edge 26 to the end of producing additional shoestrings 41. This operation is repeated until as much as is possible of the potato is transformed into shoe-strings.

It is to be understood that vegetables other than potatoes may be treated in like manner, the result of such treatment being the production of shoe-strings or broken sections dependent on the character of the vegetable treated.

Through the use of the bracket 13 and leg 11 the machine may be spaced from and supported on the table and through the use of the jaws 16, 17 and set screw 18 the machine may be detachably secured to the table.

I claim as my invention—

In a vegetable cutter, a bed plate having an oblique groove therein, a knife bearer removably mounted in said groove and having parallel slots therein intersecting the edge of the bearer presented toward the side wall of the groove, splitting knives mounted in said slots and extending above the upper surface of the knife bearer, said splitting knives having laterally extending flanges on their lower edges, the front edges of said knives engaging the side wall of the oblique groove aforesaid, and the flanges on their lower edges engaging the underside of the knife bearer, whereby the splitting knives are adapted to be removed from the knife bearer for cleaning and sharpening and replacing.

Signed by me at Des Moines, Iowa, this 30th day of December, 1910.

LESLIE W. VEITCH.

Witnesses:

EARL M. SINCLAIR,
S. C. SWEET.