

No. 633,932.

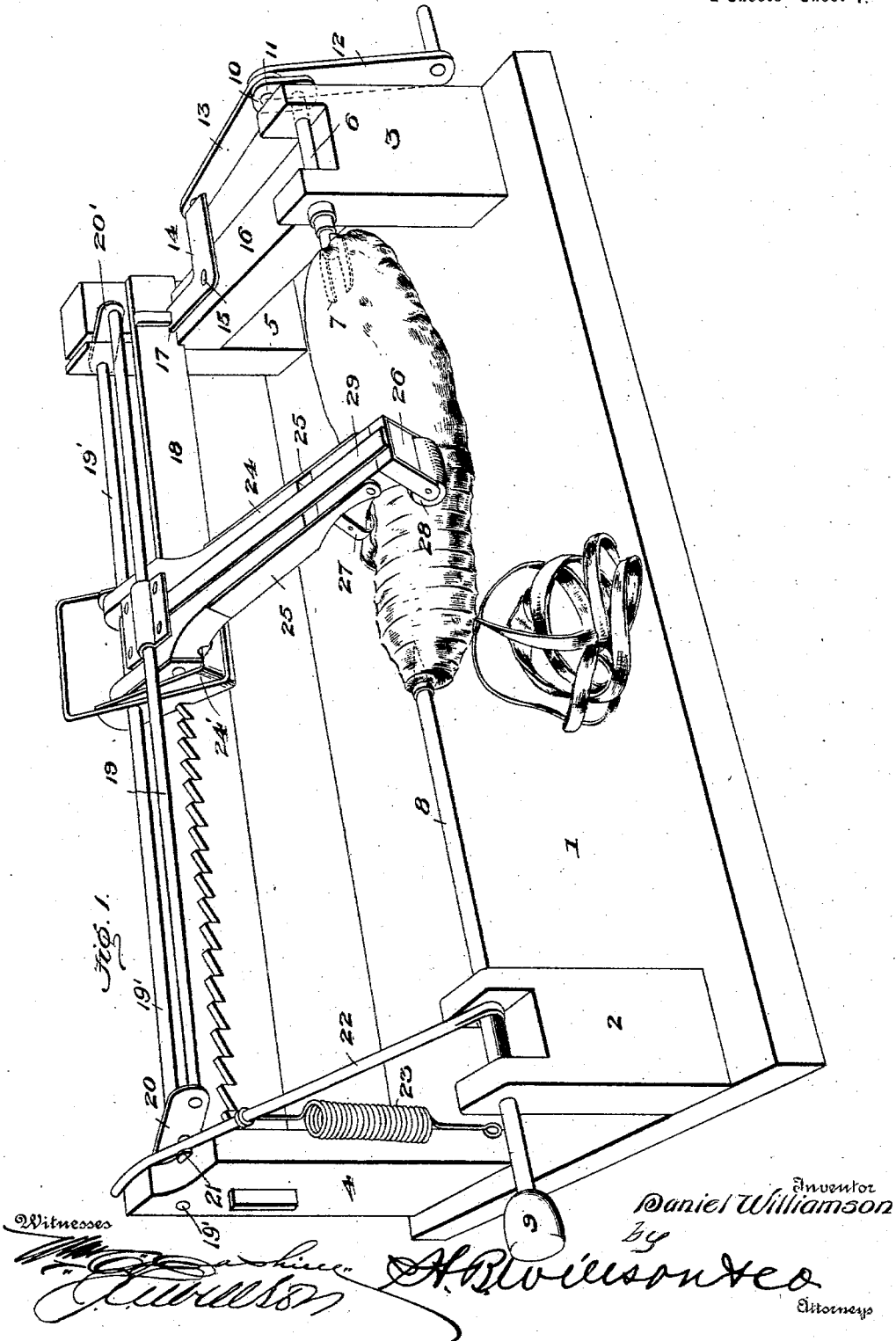
Patented Sept. 26, 1899.

D. WILLIAMSON.
POTATO PARING MACHINE.

(Application filed June 9, 1899.)

(No Model.)

2 Sheets—Sheet 1.



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Fig. 2.

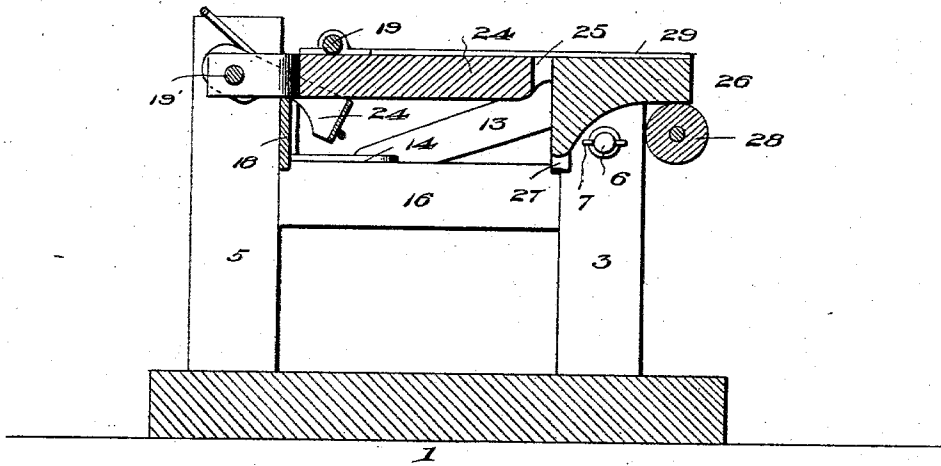
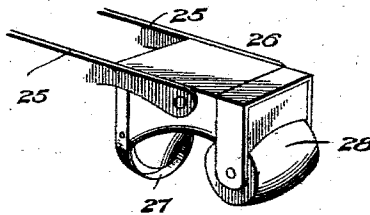


Fig. 3.



Witnesses

[Signature]
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Inventor
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Attorneys

UNITED STATES PATENT OFFICE.

DANIEL WILLIAMSON, OF SUNBURY, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO SAMUEL M. SLAGLE.

POTATO-PARING MACHINE.

SPECIFICATION forming part of Letters Patent No. 633,932, dated September 26, 1899.

Application filed June 9, 1899. Serial No. 719,892. (No model.)

To all whom it may concern:

Be it known that I, DANIEL WILLIAMSON, a citizen of the United States, residing at Sunbury, in the county of Northumberland and State of Pennsylvania, have invented certain new and useful Improvements in Potato-Paring Machines; and I do 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.

My invention relates to improvements in potato-paring machines; and the object is to provide a simple, inexpensive, and effective machine for expeditiously peeling potatoes.

To this end the invention consists in the construction, combination, and arrangement of the several elements of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the machine.

Figure 1 is a perspective view of my improved potato peeling or paring machine. Fig. 2 is a top plan view of the same. Fig. 3 is a transverse section on the line of the knife-bar.

1 denotes the base-plate provided with the aligned front standards 2 3 and the aligned rear standards 4 5.

6 denotes a crank-shaft journaled in the standard 3, and its inner end carries a fork 7 to engage the contiguous end of the potato and rotate it, the opposite end thereof being supported by the inner end of the tail-shaft 8, having a rotary and a sliding engagement with the standard 2, and its outer end terminates in a knob 9 for conveniently manipulating it.

The outer end of the shaft 6 carries a crank-arm 10, in which is fixed a wrist-pin 11, on which is mounted a crank-handle 12, used for operating the machine, and from the wrist-pin 11 a connecting-bar 13 extends to an arm of a bell-crank lever 14, fulcrumed on a screw 15, fixed in a transverse brace 16, connecting the standards 3 and 5.

The transverse arm of the bell-crank lever

14 engages a notch 17, formed in the lower edge of the contiguous end of a ratchet-toothed bar 18, having a longitudinal reciprocating engagement in the standards 4 and 5, the operation being such that one complete revolution of the shaft 6 reciprocates the toothed bar the distance equivalent to the space of one tooth.

19 denotes a longitudinal shaft mounted on the parallel arms 20 20', which are pivoted on the parallel counter-shaft 19', the ends of which are mounted in the standards 4 5, and the arm 20 is provided with a stud 21, which projects into the path of the free end of a tension-lever 22, loosely fulcrumed on the tail-shaft 8, the lever being held in frictional contact with the stud 21 by the tension-spring 23.

24 denotes the cutter-bar fulcrumed on and having a sliding engagement with the shaft 19 and its rear end pivoted on the counter-shaft 19', mounted in the standards 4 5, parallel with the shaft 19.

24' denotes a rectangular pawl-frame fulcrumed on the cutter-bar and engaging the teeth on the toothed bar 18, so that a reciprocating movement of the bar 18 will impart a "step-by-step" movement to the cutter-bar.

The free end of the cutter-bar is provided with parallel arms 25 25', in which is fulcrumed the cutter-head 26, carrying the paring-knife 27 and the parallel pressure-roller 28, both of which have a bearing on the potato, the pressure-roller serving to regulate the depth of cut, and the head being swiveled in the cutter-bar permits the knife and roller to follow the contour of the potato and conform to any inequalities of its surface.

29 denotes the pressure-spring having one end fixed to the cutter-bar and its free end in contact with the cutter-head to hold it in contact with the potato.

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

In a potato paring or peeling machine, the combination with the shaft 6, its fork and crank-arm, the wrist-pin carried thereby and the crank-handle fixed to said pin, of the notched rack-bar 18, the bell-crank lever en-

gaging said rack-bar, the bar 13 connecting
said bell-crank lever and wrist-pin, the shaft
19, the cutter-bar mounted thereon and the
pawl-frame 24' fulcrumed on said cutter-bar
5 and projecting into the path of the teeth on
said rack-bar, substantially as and for the
purpose specified.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

DANIEL WILLIAMSON.

Witnesses:

JOSEPH A. GASS,

B. F. KELLEY.