O. Hase,

Vegetable Peeler.

No. 48,779. Patented July 11, 1865.

Fig. 2.

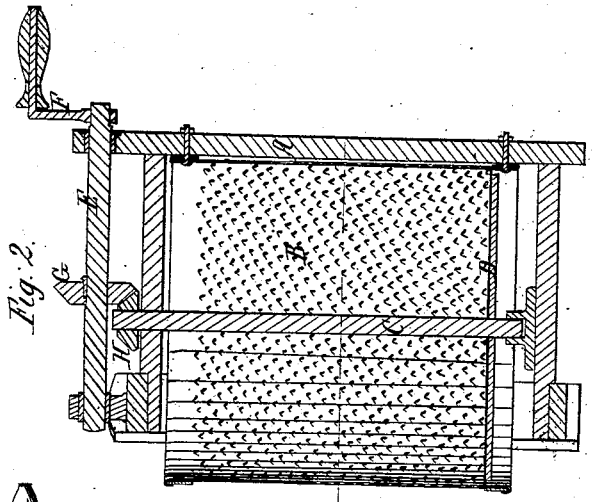


Fig. 1.

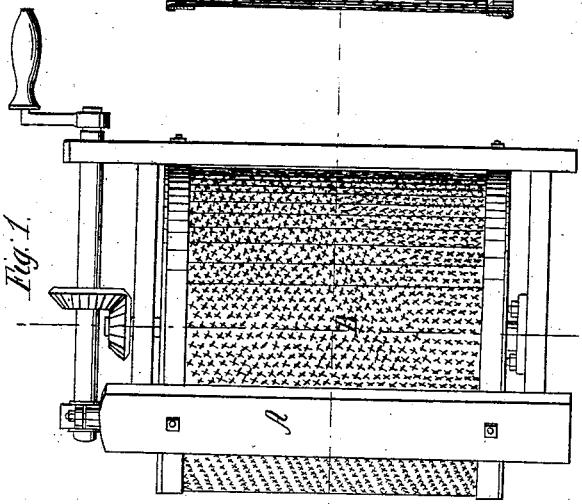
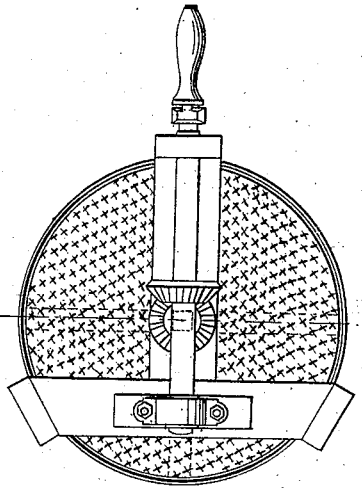


Fig. 3.



Witnesses;
Wm. D. Baldwin
Jos. F. Peyton

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UNITED STATES PATENT OFFICE.

OSCAR HASE, OF MECKLENBURG-SCHWERIN, GERMANY.

MACHINE FOR SKINNING VEGETABLES.

Specification forming part of Letters Patent No. **48,779**, dated July 11, 1865.

To all whom it may concern:

Be it known that I, OSCAR HASE, of Mecklenburg-Schwerin, in the Empire of Germany, have invented a new and useful Machine for Skinning Vegetables and Fruits; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical elevation of the outside of my machine. Fig. 2 is a vertical section of the same, and Fig. 3 is a top view thereof.

It is the object of my invention to deprive vegetables or fruits of their skins, preparatory to cooking or drying, without injury to the pulp; and my invention consists in combining a stationary vertical grating-cylinder with a central rotating shaft having a grated or roughened horizontal disk at its lower end to support the vegetables or fruit to be skinned and impart to them a centrifugal motion within the grated cylinder.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a cylinder, B, of any suitable sheet metal, open at both ends, and punch it with numerous punctures from the outside, leaving the burr on the inside produced by the punch to constitute a rough surface over the whole interior of the cylinder. The cylinder so constructed is then placed within a suitable frame, A, and made fast thereto in any proper manner.

The frame may be of any suitable material, and must have at top and bottom cross-ties to hold it together and to support the vertical central shaft, C, in a proper step at the bottom, and with a collar at the top to keep the shaft vertical and allow it a free rotation in either direction.

The shaft C carries a disk, D, near its bottom, of a diameter nearly equal to the internal diameter of the cylinder B, and this disk is, like the cylinder, made of any suitable sheet metal, punched with numerous holes from the bottom, and has the burr of the punchings left on the upper or inner side, as shown in Fig. 3. The shaft C rests in a proper step at its foot, supported centrally on the lower cross-pieces, and at its top this shaft carries a bevel-gear wheel, H, that gears into a bevel-gear wheel, G, on the horizontal shaft E, which is supported in proper bearings on two of the opposite top pieces of the frame. The shaft has a crank-handle, F, on one end, outside of the frame, by which it can be rotated in either direction by hand; but it is obvious that when desirable to operate the machine by power belt-pulleys or gearing may be substituted on the shaft in lieu of the crank-handle, or both may be used on the same machine.

It is also obvious that the top of the frame may be made removable, so that the shaft and disk may be withdrawn from the cylinder to clean them or remove the vegetables or fruits after they are properly skinned, and then, of course, the shaft E must be placed in proper boxes, so that when their caps are removed the shaft may be withdrawn, and thus present no obstruction to the removal of the disk from the cylinder.

The operation of my invention is as follows: Potatoes, turnips, beets, or apples, in quantities adapted to the size of the machine, are placed in the stationary cylinder and rest upon the disk, which is now rapidly rotated through the motion of the vertical shaft, imparted through the horizontal shaft and bevel-gear by the crank-handle. Now, the centrifugal force exerted by the disk throws the contents of the cylinder in constant succession severally against the roughened surfaces until all the skin is smoothly and properly rem ved from the vegetables or fruit, while the pulp of either remains uninjured, and when this is effected the skinned vegetables or fruit is removed in a condition ready to be cooked or sliced and dried.

It is obvious that the contents of the cylinder, after being skinned, may be removed either by withdrawing the disk or by proper openings in the bottom side of the cylinder, and when the latter arrangement is adopted these openings must, of course, have suitable hinged doors with proper fastenings to retain the vegetables or fruit while being skinned.

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

The combination, in a vegetable or fruit skinner, of a stationary cylinder having an internal roughened surface with a rotating roughened disk, to impart centrifugal motion to the commodities to be skinned, substantially in the manner described.

In testimony whereof I have hereunto subscribed my name.

OSCAR HASE.

Witnesses:

EDM. F. BROWN,

WM. D. BALDWIN.