Wehrle & Wittlinger,

Vegetable Grater.

No. 112,872. Patented Mar. 21. 1871.

Fig. 1

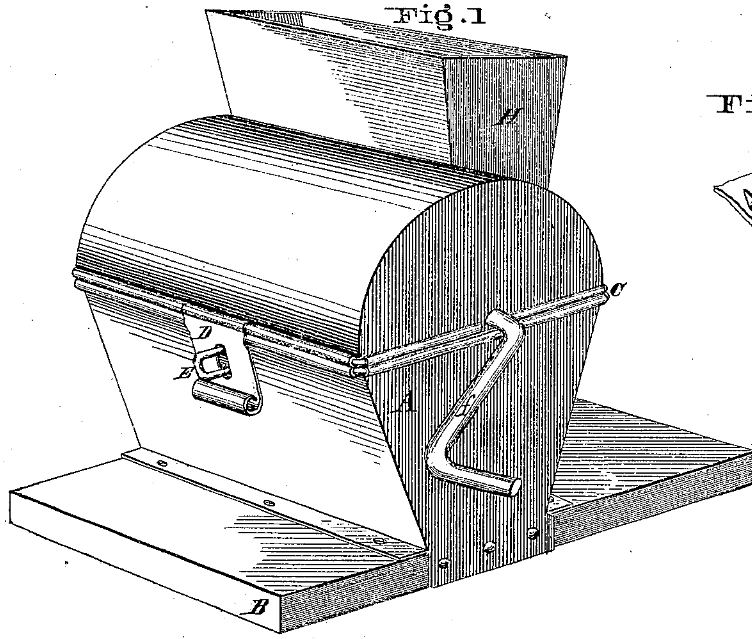


Fig. 2

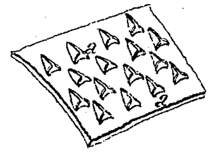


Fig. 3

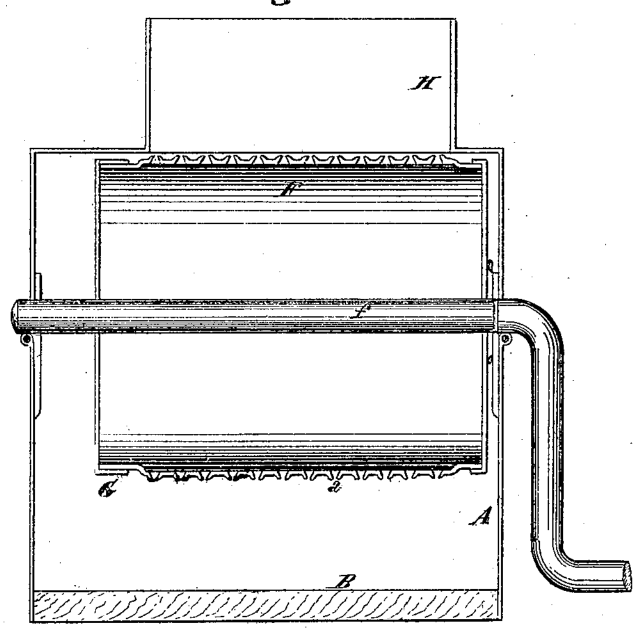
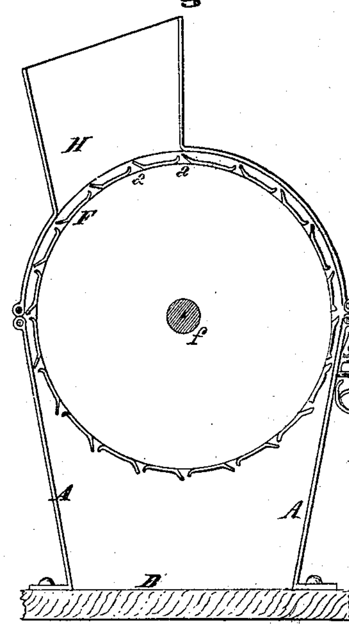


Fig. 4



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UNITED STATES PATENT OFFICE.

JACOB WEHRLE AND WILLIAM WITTLINGER, OF CINCINNATI, OHIO.

IMPROVEMENT IN VEGETABLE-GRATERS.

Specification forming part of Letters Patent No. **112,872**, dated March 21, 1871.

To all whom it may concern:

Be it known that we, JACOB WEHRLE and WILLIAM WITTLINGER, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Rotary Graters for Horse-Radish and other Vegetables; and we do hereby declare the following to be a sufficiently full, clear, and exact description thereof to enable one skilled in the art to which our invention appertains to make and use it, reference being had to the accompanying drawing, making a part of this specification.

Nature and Objects of Invention.

Our invention relates to the class of graters in which the grated material is received in a revolving cylinder; and consists of an apparatus composed of a revolving grating-cylinder constructed with a detachable end, an exterior case centrally divided and hinged, to permit the introduction and removal of the cylinder from the case, and a hopper so located in the case, with relation to the revolving cylinder, that the material will be automatically fed thereby to the grater.

Our invention further consists of a peculiar method of forming the perforation in the revolving grating-cylinder, whereby the grater is rendered incapable of grating when turned in the wrong direction, but is rendered more efficient in cutting clean shavings than any grater heretofore used, and better adapted to operate, in conjunction with the peculiarly-located hopper, to feed the material automatically.

Description of the Accompanying Drawing.

Figure 1 is an exterior perspective view of a grater embodying our invention. Fig. 2 is a detached view of a portion of the grater. Fig. 3 is a longitudinal section, and Fig. 4 a cross-section, of our improved apparatus.

General Description.

A is the exterior case, fastened to a suitable bottom board, B, which can be secured to a table by ordinary screw-clamps. It is divided centrally, as shown, to permit the introduction and removal of the rotary grater, a hinge, C, being provided at one side to connect it to the case, and a hasp and staple, D E, upon the other, for the same purpose.

The rotary cylindrical grater F is fitted to journal upon the edge of the lower part of the case, being firmly secured to its shaft *f*.

A detachable head, G, is fitted to the cylinder F, to permit the removal of the grated material from the interior of the cylinder.

A hopper, H, is fitted to the upper half of the case A, and is located upon one side of the case, so that the weight of the material will rest upon one side of the cylinder, and thus, as the cylinder revolves, will enable it to pull the material in fast enough for the feed without the necessity of additional pressure.

The perforations *a* in the exterior of the rotary grater are made, as shown, in such a way that the metal forced out will form inclined knife-edges on both sides of the perforation, which are adapted to cut perfectly in the proper direction of motion of the rotary grater, but in that direction only, the inclined knife-edges also serving, in connection with the one-sided hopper, to draw in the material automatically.

Claims.

1. A rotary grater composed of centrally-divided and hinged case A C D E, rotary cylindrical grater F, fitted with detachable head G, and hopper H, located upon one side of the case A, operating in the manner and for the purpose specified.

2. The inclined knife-edged perforations *a* of the grater, designed to cut in one direction only, as and for the purpose specified.

In testimony of which invention we hereunto set our hands.

JACOB WEHRLE.
W. WITTLINGER.

Witnesses:
FRANK MILLWARD,
HENRY MILLWARD.