

(No Model.)

J. R. HARTMAN.
POTATO GRINDER.

No. 483,251.

Patented Sept. 27, 1892.

FIG. 1.

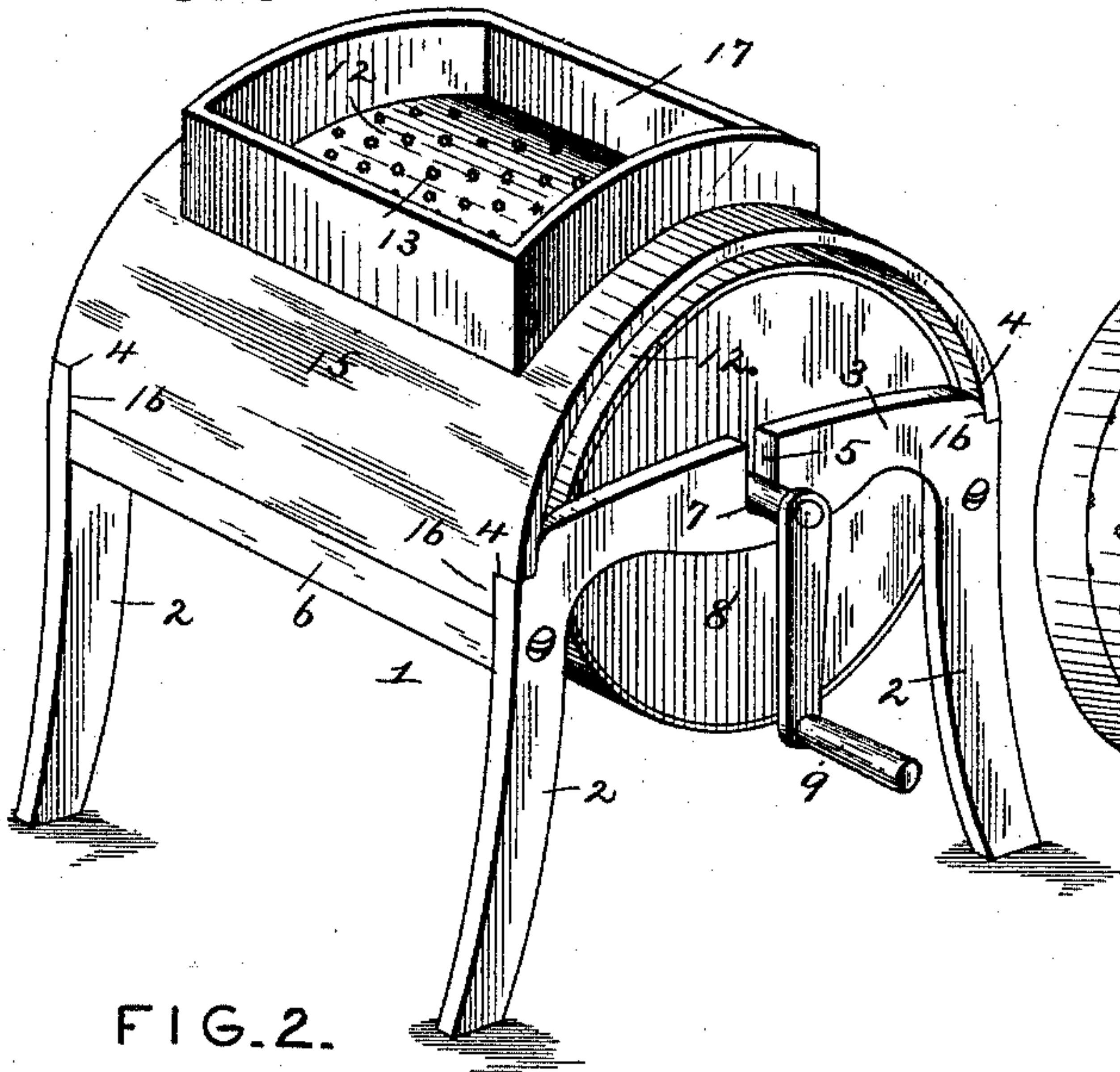


FIG. 3.

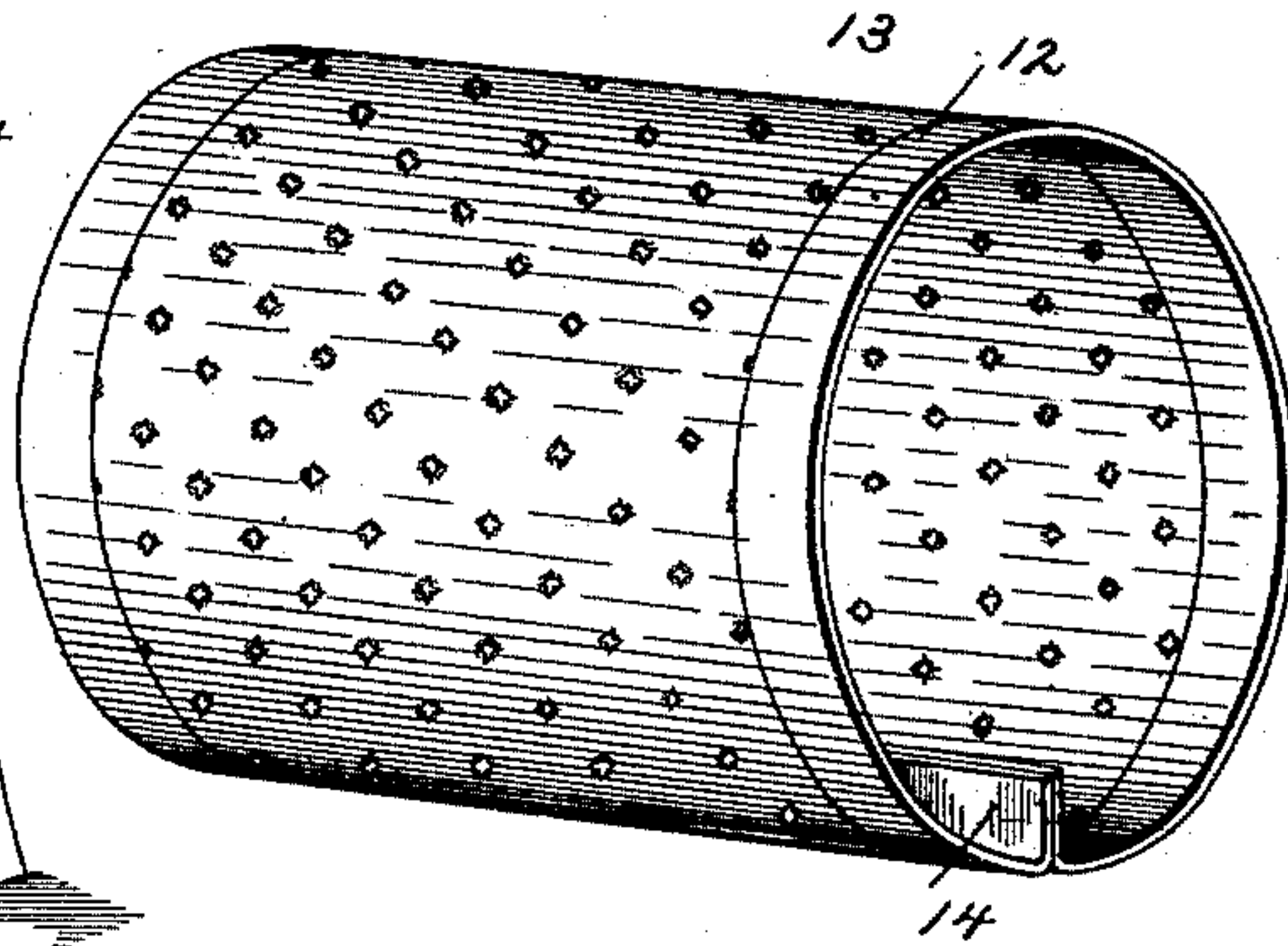


FIG. 2.

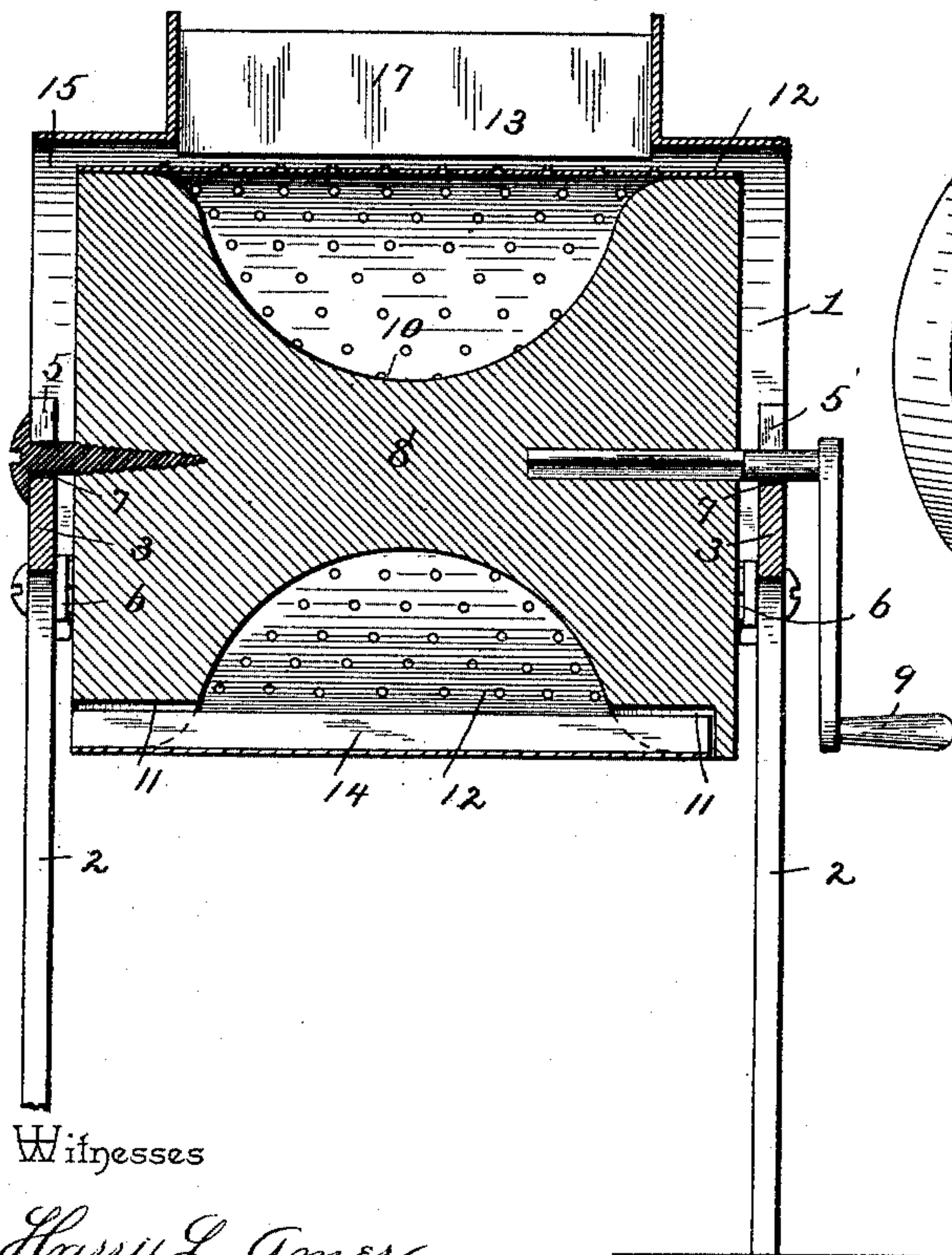
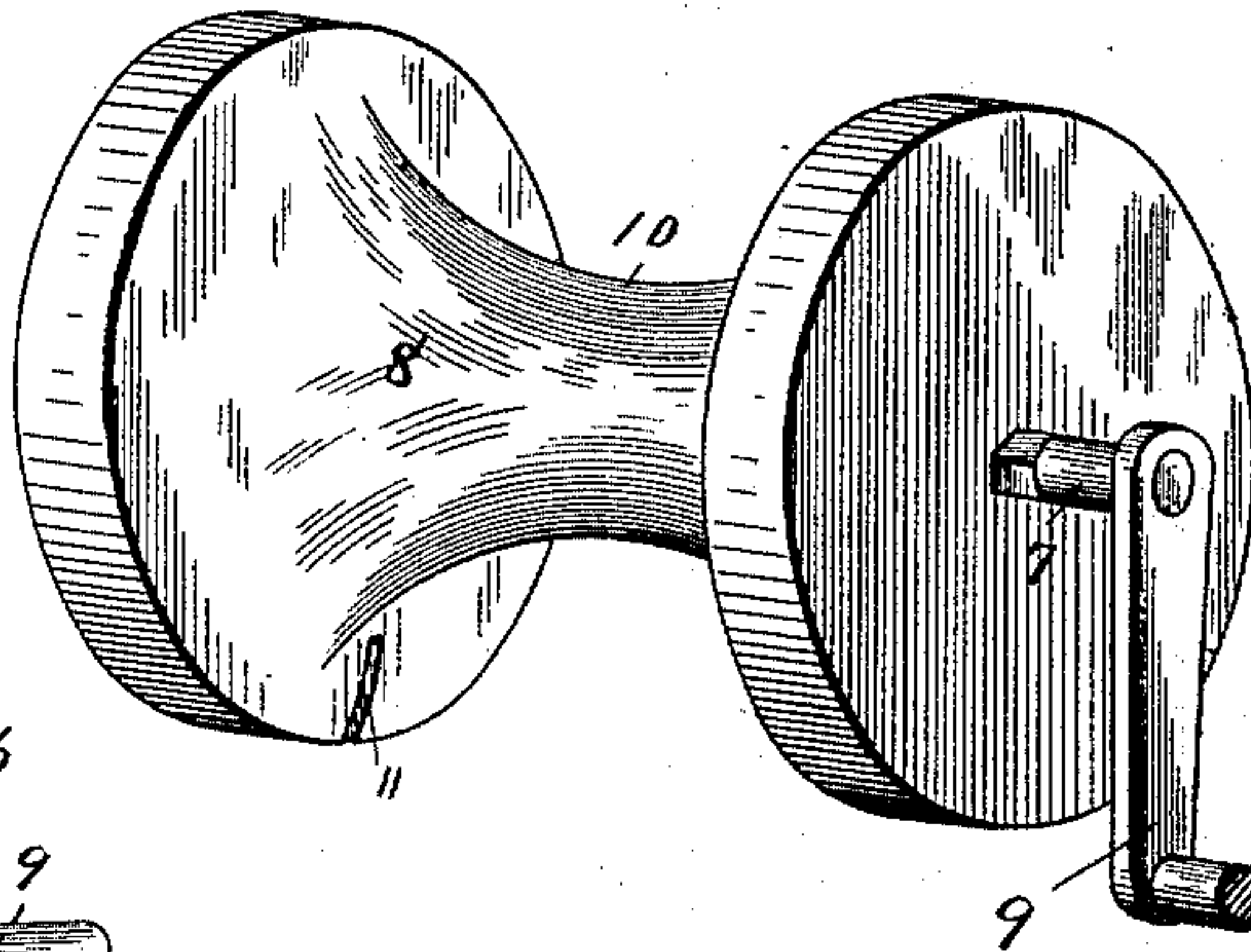


FIG. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN REINHARDT HARTMAN, OF DAVENPORT, IOWA.

POTATO-GRINDER.

SPECIFICATION forming part of Letters Patent No. 483,251, dated September 27, 1892.

Application filed March 31, 1892. Serial No. 427,262. (No model.)

To all whom it may concern:

Be it known that I, JOHN REINHARDT HARTMAN, a citizen of the United States, residing at Davenport, in the county of Scott and State of Iowa, have invented a new and useful Potato-Grinder, of which the following is a specification.

This invention relates to a potato grinder or grater; and it consists of the construction and arrangement of the parts thereof, as will be more fully hereinafter described and claimed.

The object of the invention is to provide convenient means for grinding raw potatoes, the parts of the same being simple and effective, strong and durable, and comparatively inexpensive.

In the drawings, Figure 1 is a perspective view of a device embodying the invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a detail perspective view of the grating or grinding cylinder removed. Fig. 4 is a detail perspective view of the drum-cylinder on which the grating or grinding cylinder is mounted.

Similar numerals refer to corresponding parts in the several figures.

Referring to the drawings, the numeral 1 designates a frame, which may be of any preferred form, but as shown is substantially square and provided with legs 2, adapted to rest in a dish or pan and connected by top cross-bars 3, having shoulders 4 at the corners thereof and central slots 5, for a purpose which will be hereinafter more fully set forth. The legs 2 and the cross-bars 3 may be cast in one piece, and this is a preferred form of construction, as they form the two ends of the frame and are connected by other cross bars or strips 6. The journals 7 of a drum or cylinder 8 are fitted in the slots 5 of the cross-bars 3, so as to be rotated therein, one of said journals being provided with a crank-handle 9.

The drum or cylinder 8 is constructed of hour-glass shape to form a central groove or channel 10 and whose heads are of equal diameter. Extending through said head are slots 11, one of which is exteriorly closed. On this drum or cylinder 8 is fitted a grinding or grating cylinder 12, having grating-perforations 13 therein arranged in diagonal lines to thereby be brought in contact with a larger

surface of the material to be grated or ground thereby. Extending longitudinally across the interior of the said cylinder 12 and at right angles thereto is a flange 14, which is adapted to be slipped into the slots 11 of the drum or cylinder 8 to thereby hold the said cylinder 12 in fixed position on the said drum or cylinder 8. The said flange 14 is made slightly shorter than the longitudinal length of the cylinder 12, in order to compensate for the exterior closed portion of one of the slots 11, and also providing means whereby the said cylinder 12 may be fitted on one end of the said drum or cylinder 8 only, and forms a guide or direction for applying the several parts. These parts are made separable, in order that they may be readily cleaned and also to remove the contents carried within the chamber formed by the groove 10 and the surrounding cylinder 12. When the cylinder 12 is in position in the frame 1, a cap 15 is fitted thereover, which is formed, preferably, as a cylindrical casting having its ends shouldered, as at 16, to fit over or engage the shoulders 4 of the cross-strips 3 to hold the said cap in position. The said cap is also formed with a flanged feed-opening 17, whereby the material to be ground may be placed in contact with the grinding or grating cylinder 12.

It is obviously apparent that nutmegs, horse-radish, or other material may be equally as well ground upon the device heretofore set forth; but it is preferably adapted for grinding or grating raw potatoes, as heretofore set forth, and as a culinary article it is convenient and useful.

The grating-perforations 13 of the cylinder 12 will be arranged fine or coarse, as may be required for different purposes, and to accommodate this change several cylinders may be provided to accompany each grinding device, so that one cylinder may be substituted for another, as may be found necessary.

Having thus described the invention, what is claimed as new is—

1. In a grinding or grating device, as set forth, the combination of an inner cylinder or drum of hour-glass shape to reduce the central portion thereof and provide enlarged heads at opposite ends and a grating or grinding cylinder removably fitted to the aforesaid

cylinder or drum and bearing on the enlarged heads only thereof and adapted to be rotated therewith, said parts being covered by a semi-cylindrical removable cap with a feed-opening centrally located in the top thereof, substantially as described.

5 2. In a grinding or grating device, the combination of an inner drum or cylinder having slots therein and an outer grating or grinding cylinder having a flange adapted to en-

gage said slots to removably fasten the parts together, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN REINHARDT HARTMAN.

Witnesses:

GEO. BENEDICT,

J. M. ELDRIDGE.