

(No Model.)

M. D. PLATNER.
VEGETABLE GRATER.

No. 361,595.

Patented Apr. 19, 1887.

Fig. 1.

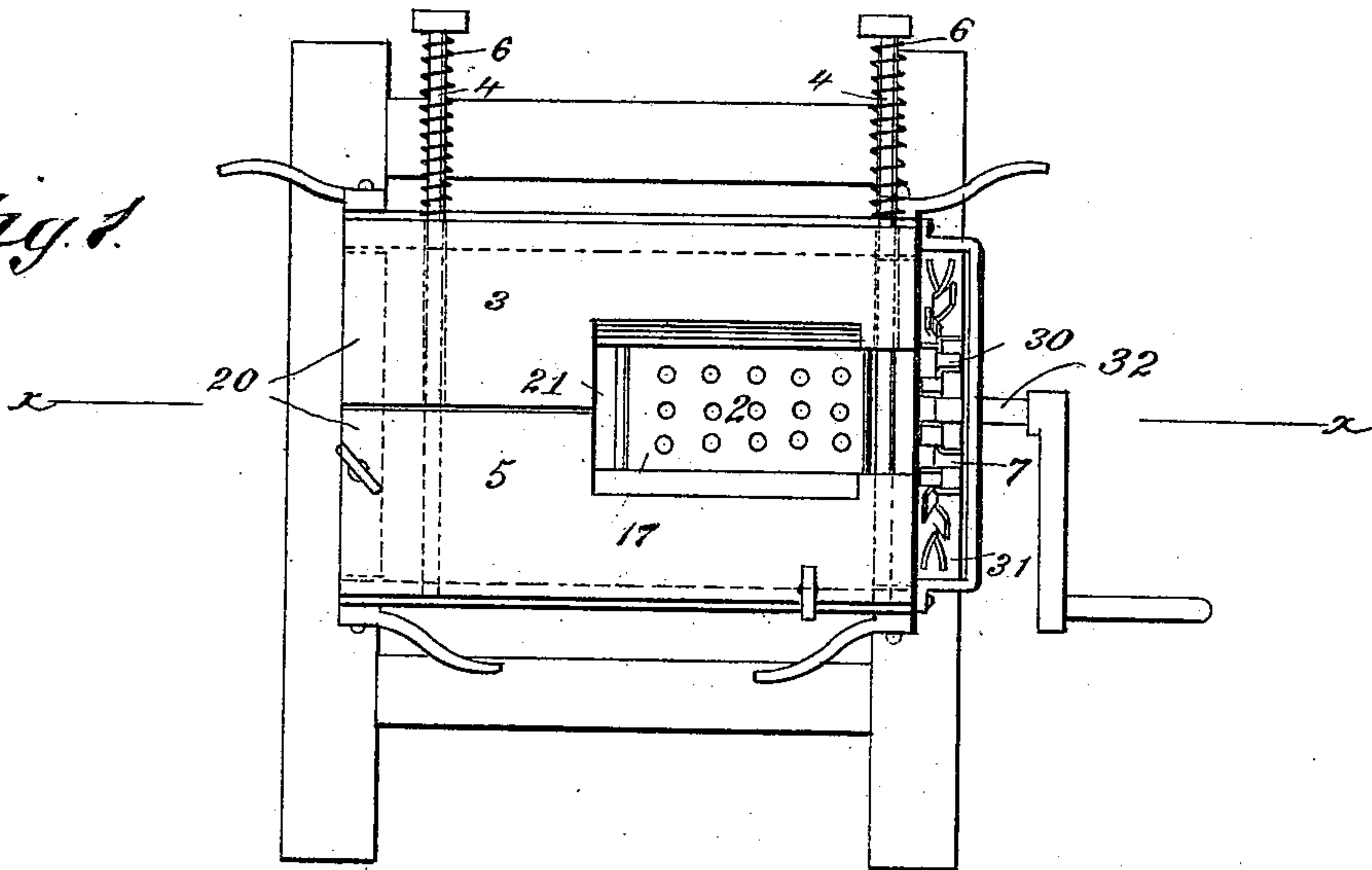


Fig. 2.

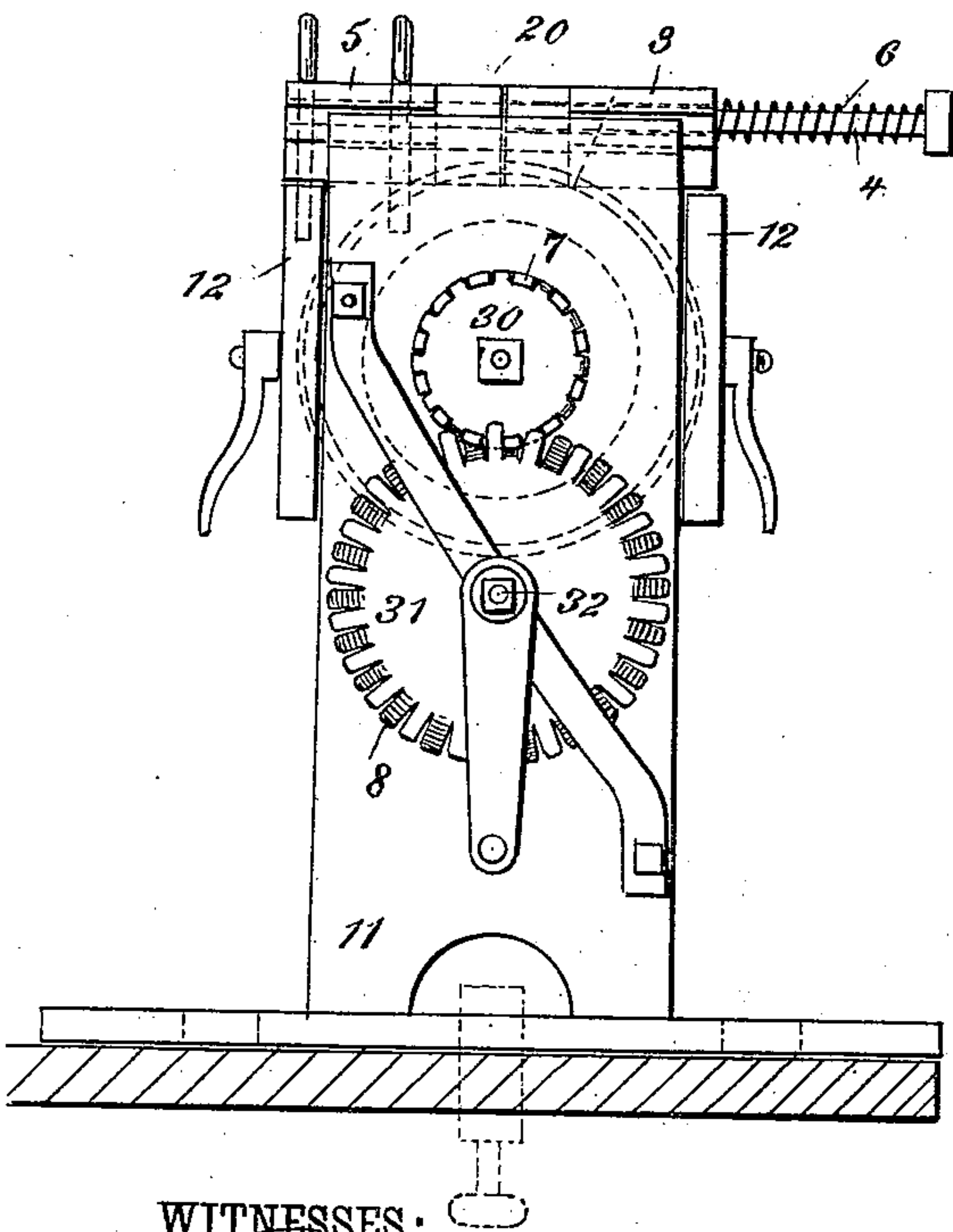
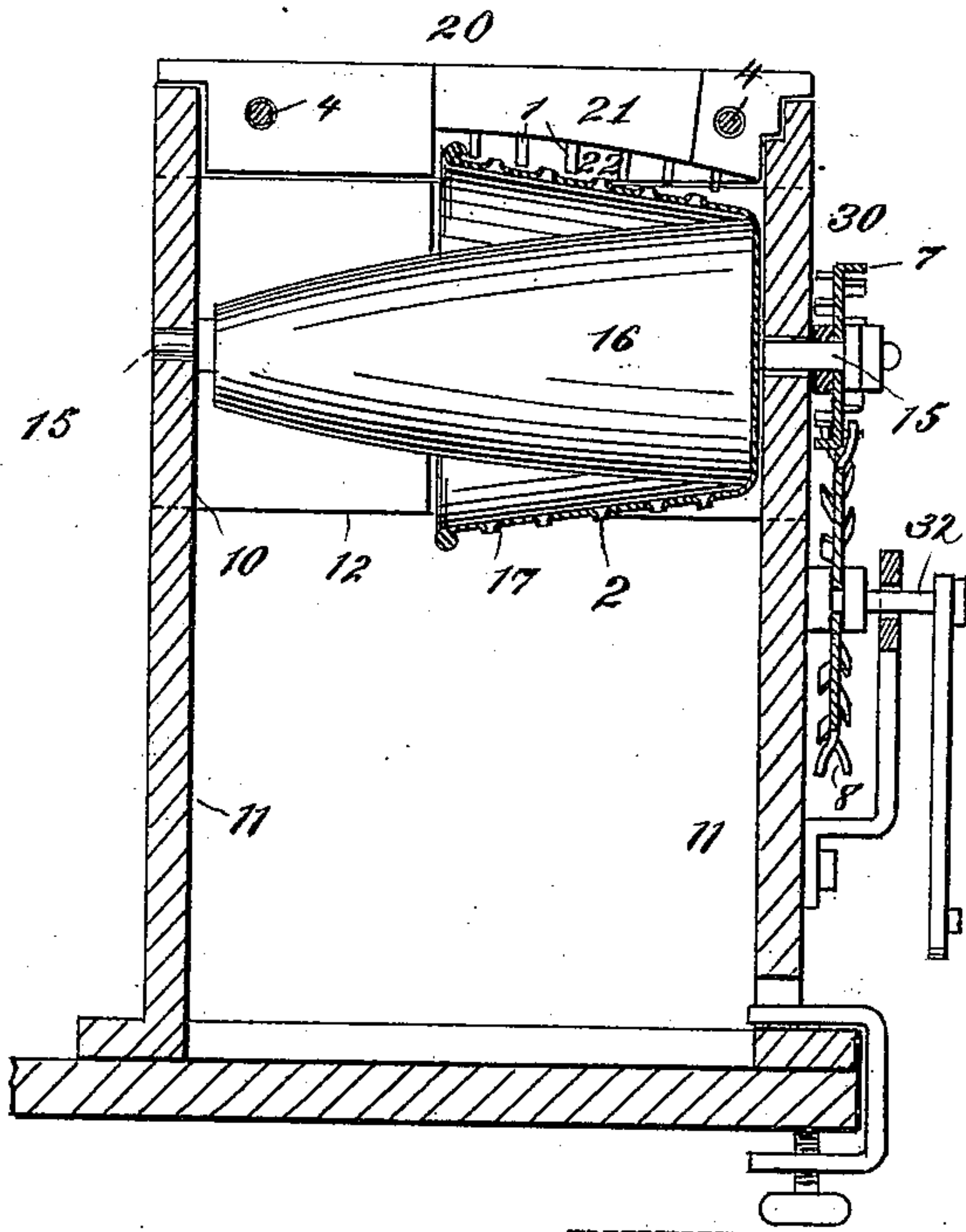


Fig. 3.



WITNESSES:

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VEGETABLE-GRATER.

SPECIFICATION forming part of Letters Patent No. 361,595, dated April 19, 1887.

Application filed July 15, 1886. Serial No. 208,114. (No model.)

To all whom it may concern:

Be it known that I, MARSHAL D. PLATNER, of Virginia City, in the county of Madison and Territory of Montana, have invented a new and Improved Vegetable-Grater, of which the following is a full, clear, and exact description.

My invention relates to vegetable-graters, the object being to provide a grater that may be easily manipulated, which may be cheaply constructed, and which shall be thoroughly efficient in operation; and to these ends the invention consists of certain novel constructions and combinations, to be hereinafter described, and specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of my improved form of grater. Fig. 2 is an end view of the same, and Fig. 3 is a sectional view taken on line *x x* of Fig. 1.

The body of the grater illustrated in the drawings above referred to consists of a box-like structure, 10, formed by uniting two vertical end strips, 11, by means of upper side strips or bars, 12. Within the box 10 there is mounted a shaft, 15, which carries a cone-shaped block, 16, to the base of which there is secured a grater, 17, said grater consisting of a metallic cup-shaped attachment having either outwardly-flaring or cylindrical sides.

The roughened surface necessary to grate the material to be operated upon is produced by puncturing a series of apertures, as 2, through the side wall of the grater, thus making sharpened projections which extend outward beyond the general contour of the peripheral face of the grater.

To the tops of the vertical strips 11, I secure a sectional cover, 20, one of the sections of said cover being rigidly connected to the tops of the strips 11, while the other section (shown at 3) rides upon extending arms 4, and is held against the section 5 (which is the rigidly-mounted section) by springs 6, as shown in Figs. 1 and 2. In this cover 20 there is an

opening, 21, the under side of the cover being slightly cut away, as shown at 22, Fig. 3, to accommodate the grater. One of the sections is provided with downwardly-extending projections 1, that prevent the entrance of material which would tend to clog the machine.

Upon the shaft 15 there is arranged a small gear, 30, that is driven by a larger gear, 31, that is carried by a crank-shaft, 32, said shaft being mounted in bearings arranged as best shown in Fig. 2.

Such a vegetable-grater as I have described may be clamped to a table or other standard support, as represented in Fig. 2, and in operation will be found to be exceedingly rapid in the performance of its work and easily cleansed, as will be readily appreciated from the construction illustrated.

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

1. In a grater, the combination, with a shaft and a cup-shaped grater thereon, of a cone-shaped block on the shaft, within the grater, and abutting with its large end against the inner closed end of the said grater, substantially as set forth.

2. The combination, with the grater and its frame, of the top formed of the fixed section 5, the horizontal rods 4 4, the movable section 3, and the springs 6 6 on said rods, a feed-opening, 21, being formed in the top between the said sections, substantially as set forth.

3. The combination, with the frame and the grater, of the cover 20, having an opening, 21, and formed of the fixed section 5, the horizontal rods 4 4, the spring-pressed section 3 on said rods, and the downwardly-extending pins 1 on the under side of one section and extending adjacent to the grater, substantially as set forth.

MARSHAL D. PLATNER.

Witnesses:

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JAMES MCALLISTER.