

(No Model.)

P. BLUM.
VEGETABLE GRATER.

No. 334,931.

Patented Jan. 26, 1886.

Fig. 3

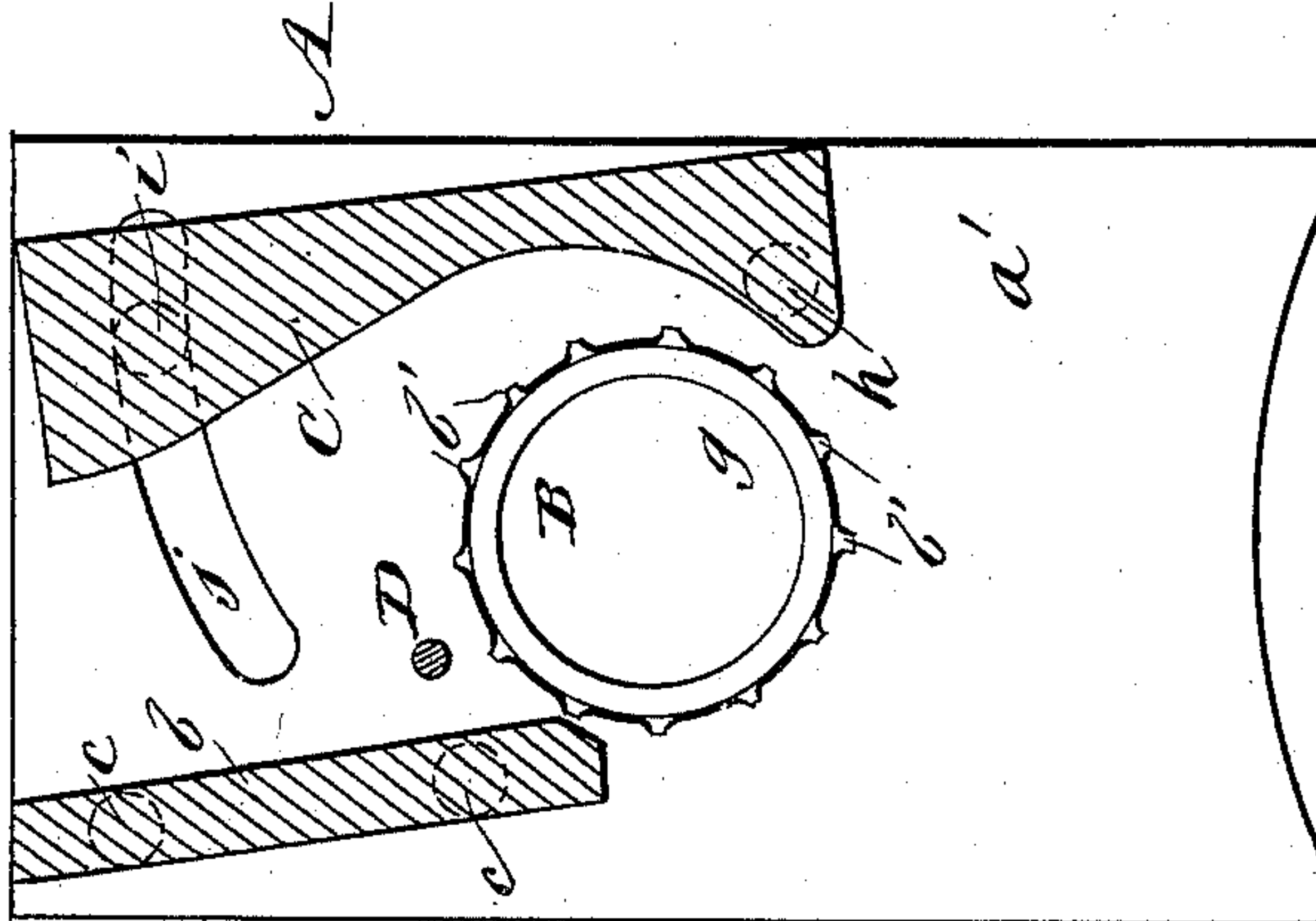


Fig. 1

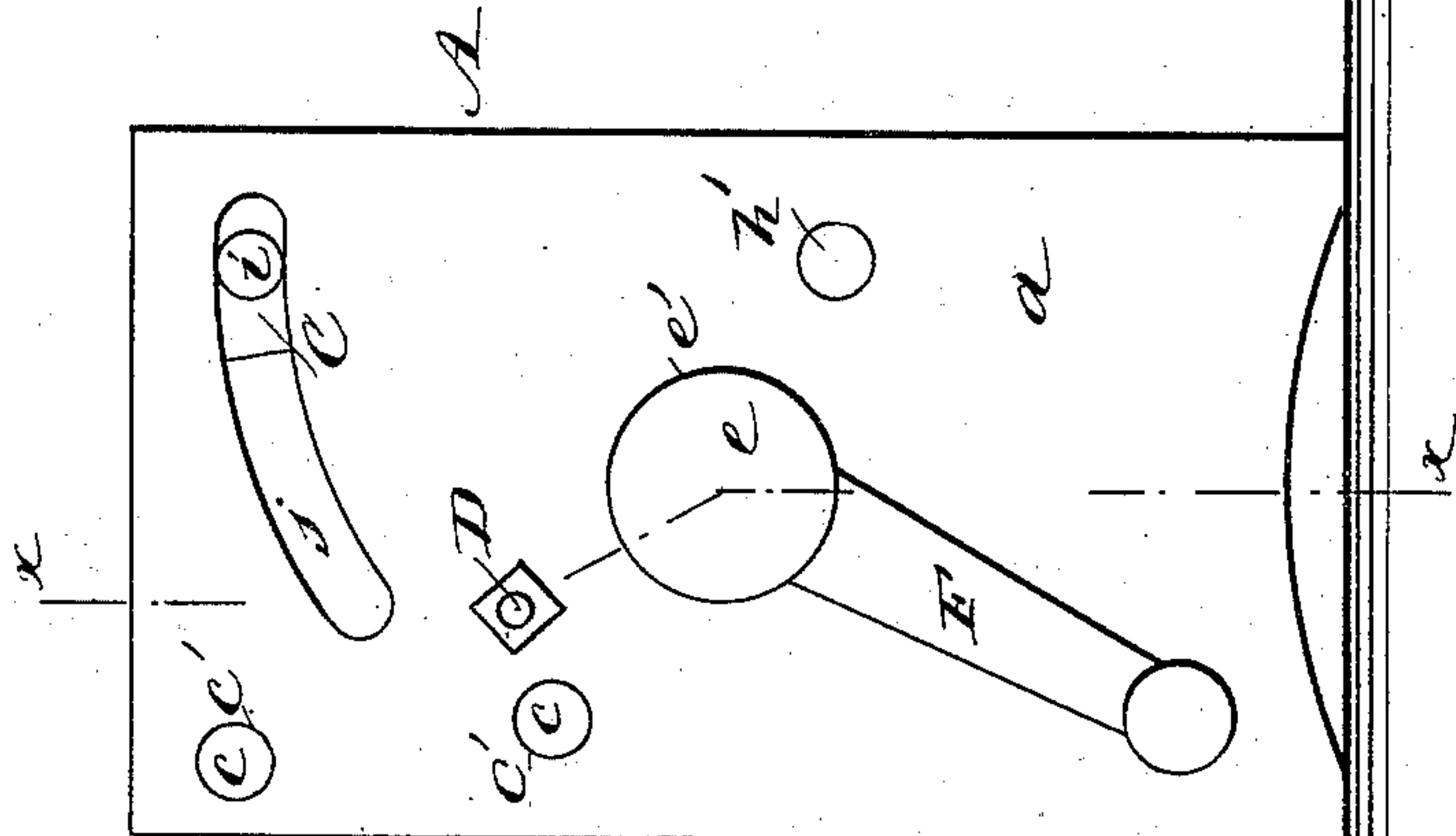
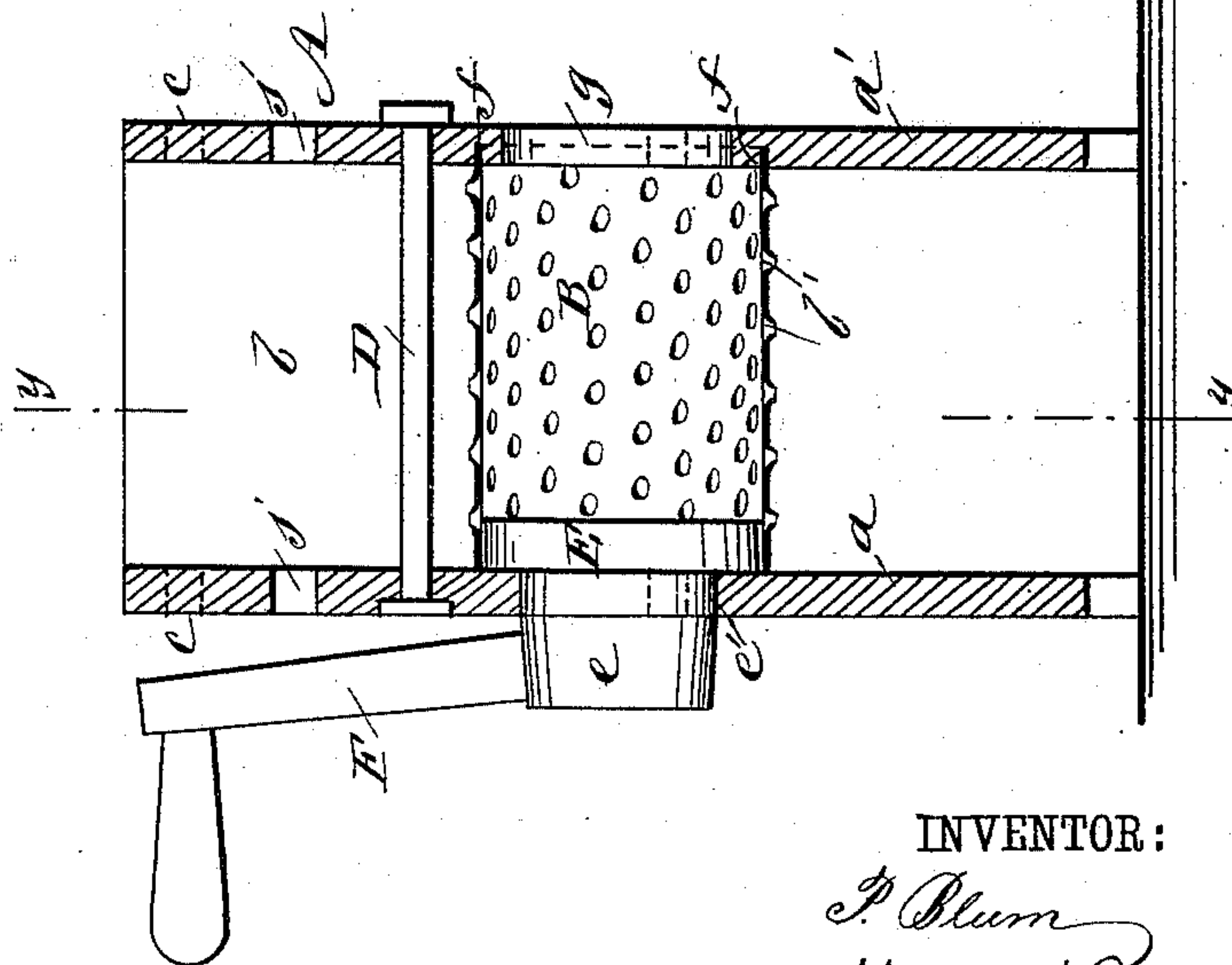


Fig. 2



WITNESSES:

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PETER BLUM, OF ORRVILLE, MISSOURI.

VEGETABLE-GRATER.

SPECIFICATION forming part of Letters Patent No. 334,931, dated January 26, 1886.

Application filed April 6, 1885. Serial No. 161,291. (No model.)

To all whom it may concern:

Be it known that I, PETER BLUM, of Orrville, in the county of St. Louis and State of Missouri, have invented a new and Improved Vegetable-Grater, of which the following is a full, clear, and exact description.

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

Figure 1 is a side elevation of my new and improved vegetable-grater. Fig. 2 is a sectional elevation of the same on line *xx* of Fig. 1, and Fig. 3 is a sectional elevation taken on the line *yy* of Fig. 2.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

Referring to the drawings, A represents the box or frame of my new vegetable-grater. B represents the grating-cylinder, and C represents a follower that forms one side of the hopper, in which the vegetable to be grated is placed.

The box or frame A is composed of the main side pieces or boards, *a a'*, and the short intermediate board, *b*, placed between the boards *a a'*, at their upper ends, and held in this instance by the pins *c*, made at the edges of the board, entering the holes *c'*, made in the side boards, *a a'*, as shown clearly in the drawings. The side pieces or boards, *a a'*, are bolted together by the bolt D.

The cylindrical grater B is made of sheet metal punched to form the cutting-points *b'*, and it is attached at one end to the circular head E, that is formed with the circular hub or projection *e*, which has a bearing in the circular opening *e'*, made in the side board, *a*, as shown in Figs. 1 and 2. The opposite end of the grater B is open, and is placed in the circular groove *f*, made in the inner surface of the side board, *a'*, and within the circular groove *f* is formed in the side board, *a*, the aperture *g*, through which the grated material entering the cylinder may be discharged from the interior of the grating cylinder B.

The cylinder B is adapted to be revolved for grating the vegetables by the crank F, attached to the hub *e*, as shown in Figs. 1 and 2.

The follower C is pivoted at its lower end, below the axis of the cylinder, upon the pins

h h, working in apertures *h' h'*, so that it is adapted to be moved to and from the grating-cylinder B, for pressing the vegetable to be grated upon the outer surface of the cylinder. The side boards, *a a'*, have the curved slots *j j* formed in them to receive the pins *i i*, formed upon or attached to the upper end of the follower C, so that the pins will act as guides and stops to the forward and backward movement of the follower C.

In use the vegetable to be grated will be placed in the grater upon the grating-cylinder B, and the cylinder revolved by crank F, and at the same time the operator will draw the follower C forward, which will press the vegetable upon the cylinder B and facilitate the work of grating.

I am aware that a thrashing-machine has been provided with a concave pivoted at its lower end and slotted at the upper ends of its sides to receive set-screws; also, that a cylindrical grater has been mounted on a spool having end bearings in the transverse aperture of the casing; also, that a vegetable-cutter has been provided with a cone-shaped cutter-cylinder having a shaft at one end, which shaft was mounted on a bracket secured to the frame, the opposite end of the cylinder working in a circular opening in the frame, and I claim no such construction as of my invention.

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

1. The combination, with the frame and the grating-cylinder mounted therein, of the hopper consisting of the inclined board *b*, adjacent to and extending above the cylinder at one side thereof, and the concaved follower C, pivoted at its lower end below the axis of the cylinder and extended upward to a point at or near the upper open end of the frame above the cylinder, substantially as set forth.

2. A grating-machine consisting of the side boards, *a a'*, having central apertures, *e' g*, the upper and lower apertures *c'* above and to one side of the central apertures, the apertures *h'* below and to one side of the central apertures, and the segmental slots *j* above the central apertures, the grating-cylinder at the central apertures, the board *b*, having tenons fitting into the apertures *c'*, and the follower C, having tenons *h* and *i*, working in

the apertures h' and segmental slots j , respectively, substantially as set forth.

3. The frame A, having the apertures e' and g in the side boards, a a' , respectively, and
5 the groove f in the inner face of the board a' , around the aperture g , in combination with the grating-cylinder B, secured at one end to the circular head, having a bearing in the ap-

erture e' , and the opposite open end of the cylinder having a bearing in the groove f , so substantially as set forth.

PETER BLUM.

Witnesses:

DANIEL REINHARDT,
ANDREW BLUM.