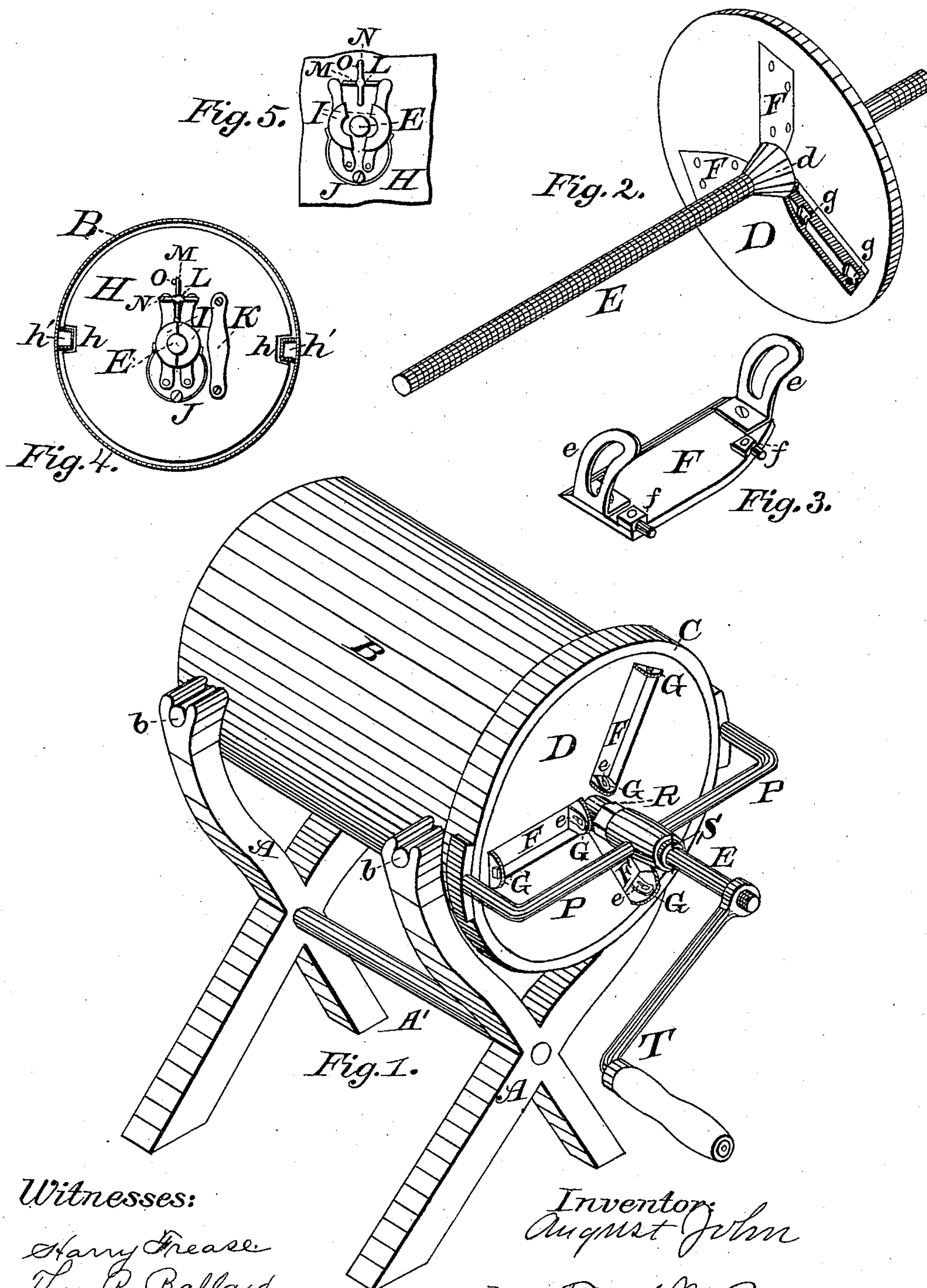


(No Model.)

A. JOHN.
VEGETABLE CUTTER.

No. 326,222.

Patented Sept. 15, 1885.



Witnesses:

Harry Grease
Theo. R. Ballard

Inventor:
August John

per Fred W Bond.

Attorney.

UNITED STATES PATENT OFFICE.

AUGUST JOHN, OF MASSILLON, OHIO.

VEGETABLE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 326,222, dated September 15, 1885.

Application filed September 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, AUGUST JOHN, a citizen of the United States, residing at Massillon, in the county of Stark and State of Ohio, have
5 invented certain new and useful Improvements in Vegetable-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this
10 specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a perspective view. Fig. 2 is a detached view of cutter-head, showing one of the knives removed and the screw or feeding
15 shaft. Fig. 3 is a detached view of a knife and its attachments. Fig. 4 is an end view, showing the spring-clamp closed; and Fig. 5 is a side view of clamp, showing said clamp open.

My invention relates to that class of vegetable-slicers in which is employed a tub or cylinder for containing the articles to be cut or
20 sliced, a revolving cutter-head provided with cutters or knives, a central screw-shaft upon which the cutter-head is fixed, and a follower working upon said screw-shaft to force the articles against the cutter-head to be operated upon by the knives or cutters thereof.

The invention consists in the construction and combination of parts hereinafter described,
30 and then specifically pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures in the drawings.

In the accompanying drawings, A represents
35 the supporting-frame, preferably constructed, as shown, of two pairs of crossed legs united together at their centers by a cross-bar, A', each leg being slotted at its upper end to receive the arms b for supporting the cylinder B.

40 B represents the tube or cylinder, which is substantially of the form shown in Fig. 1, and may be made of galvanized iron or other suitable material, and is provided with the arms b, which are for the purpose of holding the
45 cutter, as seen in Fig. 1.

The end of the tube or cylinder in which the cutter-head is located is provided with a metallic ring, C, which is substantially of the form shown in the drawings.

50 The cutter-head D is substantially of the form shown in Figs. 1 and 2, and is rigidly attached to the screw or feed shaft E in any con-

venient manner. The inner face of this cutter-head is provided with the conical collar d, which may be formed with the cutter-head D; 55 or it may be made separate, and attached as shown in Fig. 2. Within the cutter-head D are located the knives F, which are arranged substantially as shown in Figs. 1 and 2. The ends of said knives are provided with the curved
60 slotted arms e, which are attached to the knives by suitable screws, as seen in Fig. 3. Upon the back of the knives F are located the blocks and pins f, which are securely held to said knives by screws. Said blocks and pins enter
65 the recesses and holes g in the cutter-head, and are for the purpose of assisting in holding the knives in proper position.

The cutter-head D is provided with the ears G, as seen in Fig. 1, and they are for the purpose of passing a clamping bolt or screw
70 through and securely holding the arms e and knives F in proper position by tightening the clamping bolts or screws. The object of forming curved slots in the arms e is to permit the
75 cutting-edges of the knives to be varied without changing the rear part of said knives to any great extent.

The follower H is to correspond in its diameter to the diameter of the tube or cylinder B, 80 or nearly so. This follower H has upon its periphery the notches or recesses h, which are for the purpose of receiving the ribs h'. Said ribs h' extend the entire length of the tube or cylinder B, and are for the purpose of preventing the follower H from turning. 85

On the outer face of the follower H is located the spring-clamp I, which is substantially of the form shown in Figs. 4 and 5, and, as shown, is formed in two pieces or halves, said pieces
90 or halves being held to the follower H by suitable screws. These pieces are each provided with a screw-thread, which is to receive the screw-thread on the shaft E when in the position shown in Fig. 4, said pieces being held
95 in that position by the spring J, and when in that position the follower H will be drawn toward the cutter-head b by revolving the shaft E. To remove the follower H the spring-clamp I is opened, as shown in Fig. 5, and said fol-
100 lower drawn out by the handle K.

Between the upper ends of the pieces comprising the spring-clamp I is located a post, L, one end of which has a pivotal bearing in

the follower H. This post extends outwardly from the follower, so that its outer end is clear of the spring-clamp, and upon said outer end is secured a handle, N, by which the post can be rotated. Intermediate of the ends of the post it is provided with arms M, which engage with the pieces of the clamp to operate the same to release the screw-rod E from their grasp. These arms are beveled at each end, as shown, so as to easily slide on the spring-pieces.

Above the post L, and a little to one side thereof, is a pin, O, firmly secured to the follower H, which serves as a stop to limit the movement of the post in a backward direction by one of the arms M striking against it when the post is rotated to bring the ends of said arm out of engagement with the pieces of the clamp, and allow them to be closed upon the screw-rod E by means of the spring connected therewith.

The bearing for the shaft E is held in proper position by means of the bail P, which is rigidly attached to the ring C in any desired manner. The shaft E and the cutter-head D are held in proper position by means of the fixed collar R and pin S.

In use the tube or cylinder is swung upon the forward arms, b, till it assumes a perpendicular position, the screw-rod E and cutter-head being in position as seen in Fig. 1. The articles to be sliced are then placed in the cylinder, and the follower H placed in position upon the end of the screw-rod, the post L being turned by the handle M, so that the arms N will engage with the pieces of the spring-clamp to force them apart, as seen in Fig. 5, so that the screw-rod can readily be inserted between said pieces. The handle or arm M is then operated in a reverse direction to bring the ends of the arms N out of engagement with the pieces, when they will be forced together by the spring J, and securely hold or engage the screw-rod E with the screw-threads therein. The cylinder B is then swung back to a

horizontal position and the cutter-disk rotated 45 by the crank T. The follower will be forced forward, causing the vegetables to be fed up against the revolving knives F to be sliced.

Having now fully described my invention, what I claim as new, and desire to secure by 50 Letters Patent, is—

1. The cutter-head P, provided with the ears G and the recesses and holes g, in combination with the knives F, provided with the curved slotted arms e, and the blocks and 55 pins f, substantially as and for the purpose specified.

2. The combination, with the follower H, of the clamp I, formed in pieces or halves, the post L, provided with the arms M and handle 60 N, and the spring J for pressing the clamps together when the arms M are thrown out of engagement with the pieces of the clamp, substantially as described.

3. The combination, with the follower H, of 65 the clamp I, formed in pieces or halves and pivoted to the follower, the post L, provided with the arms M and handle N, the spring J for forcing the pieces of the clamp together, and the stop O for limiting the movement of 70 the arms M of the post L, substantially as described.

4. The combination, with the cylinder B, the screw-threaded shaft E, provided with fixed cutter-head D, having ears G, and the adjust- 75 able knives F, with slotted arms e for securing the knives to ears G, of the follower H, provided with spring-clamp I, made in halves and embracing the shaft E, substantially as described. 80

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

AUGUST JOHN.

Witnesses:

L. C. COLE,

D. F. REINOEHL.