N. SWEETLAND.

Vegetable-Slicers.

No. 158,542. Patented Jan. 5, 1875.

Fig. 1.

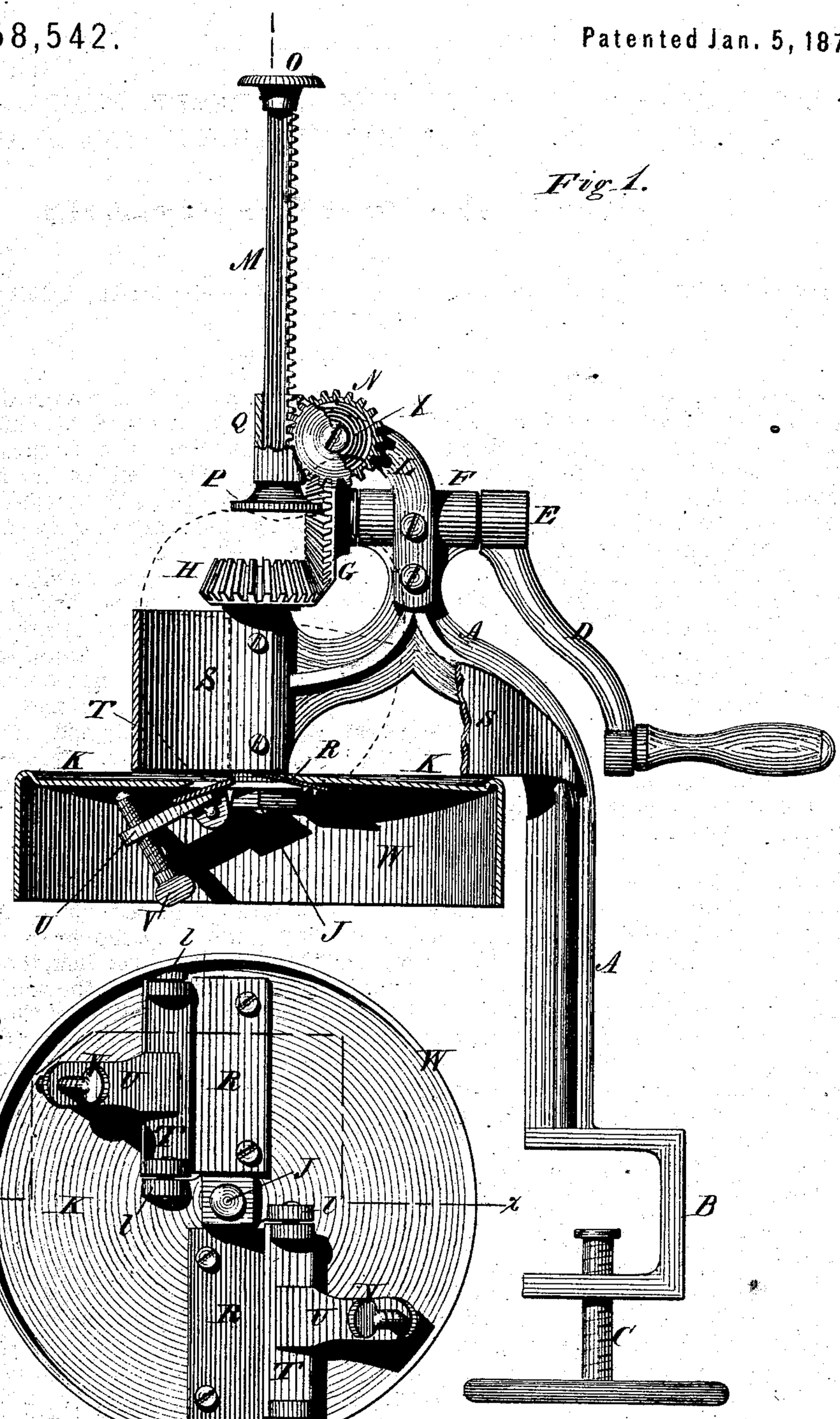

Fig 2.

WITNESSES

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NATHAN SWEETLAND, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO THE AMERICAN BUTT COMPANY, OF SAME PLACE.

IMPROVEMENT IN VEGETABLE-SLICERS.

Specification forming part of Letters Patent No. **158,542**, dated January 5, 1875; application filed October 9, 1874.

To all whom it may concern:

Be it known that I, NATHAN SWEETLAND, of Providence, in the State of Rhode Island, have invented a new and useful Fruit and Vegetable Slicer; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation, partly in section, of the machine. Fig. 2 is a bottom view of the knife-disk.

The same letter indicates the same part in both the figures.

My invention consists in the improvements in machines for slicing vegetables, hereinafter more particularly set forth.

In the accompanying drawings, A marks a standard of irregular shape, to which the operative parts are attached. Its lower end is formed into a rectangular recess, B, intended to receive the edge of a table or shelf, to which the machine, when in use, is to be clamped. A clamp-screw, C, serves to fasten the standard to the table. A winch or crank, D, is attached to the end of a shaft, E, turning in a sleeve, F, fixed to the upper end of the standard A. On the opposite end of shaft E is fixed a miter-gear, G, which meshes into a similar gear, H, on top of the upright shaft J. To the lower end of this shaft, which turns in a vertical sleeve, the knife-disk K is attached. The knife-disk is flat on top, and has a low rounded rim around its upper side, and a broad rim, W, below. The slicing-knives R R and the adjustable throat-plates T T are attached to the under side of disk K, as shown in Fig. 2. The knives are fastened immovably to the disk by screws; but the throat-plates are hinged or pivoted to lugs *l* attached to the disk, so that the angle which they respectively form with the plane of the disk can be varied at pleasure. This adjustment is made by means of the arms U U, operated by the long thumb-screws V V. To the upper end of standard A is attached an arm, L, at the end of which is a sleeve, Q, through which the toothed bar M slides vertically. The teeth of bar M engage with the teeth of a gear, N, pivoted to arm L, and entering the sleeve Q through an opening in its side. The gear N is a box-wheel, having within it a coiled spring, X, whose reaction is such as to rotate the gear in the direction to throw the bar M upward into the position shown in Fig. 1. The upper end of bar M is provided with a thumb-piece, O, by which it can be pressed down, and its lower end has a presser-foot, P, slightly concave, and roughened, if need be, on its lower surface, to hold the articles subjected to the action of the cutters. A curved rim or wall, S, serves to confine the vegetable while undergoing the slicing operation.

The operation is obvious. The vegetable to be sliced is placed within the rim S and held firmly down by the presser-foot P, while, by the rotation of the disk, the knives are caused to cut it into slices, the thickness of which depends on the position of the adjustable throat-plates T T, and can be controlled at will. On being released, the presser rises, by the action of spring X, to allow of the introduction of fresh material for a repetition of the process.

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

The combination, in a vegetable-slicing machine, of the revolving disk K, fixed knives R R, and adjustable throat-plates T T, constructed and operated in the manner specified.

The above specification of my said invention signed and witnessed at Providence this 29th day of June, A. D. 1874.

NATHAN SWEETLAND.

Witnesses:

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CHAS. F. STANSBURY.