

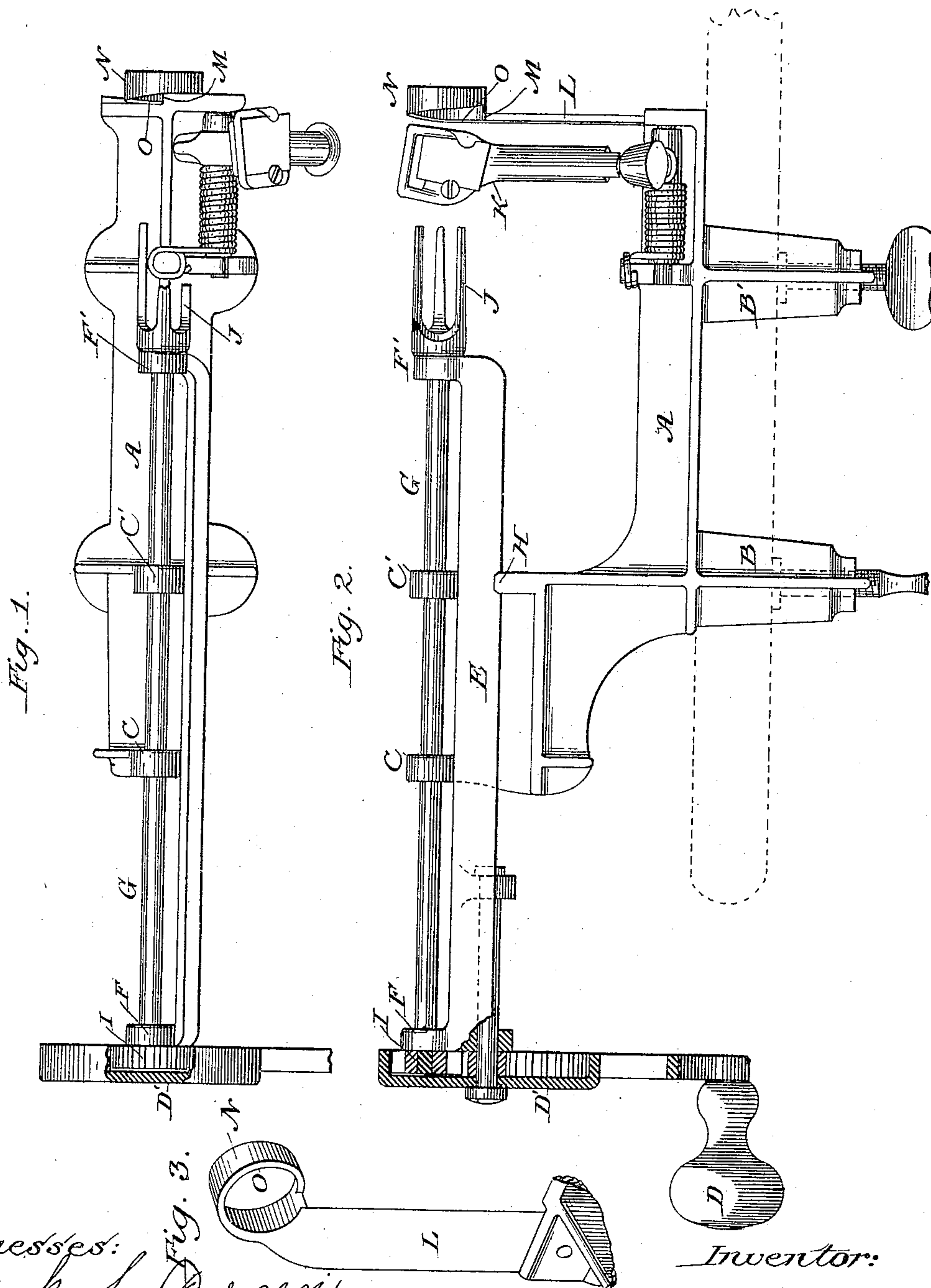
(Model.)

H. C. WILDER.

APPLE PARER, CORER, AND SLICER.

No. 267,475.

Patented Nov. 14, 1882.



Witnesses:
Frank S. Durgan
Homer F. Brown

Inventor:
Henry C. Wilder

UNITED STATES PATENT OFFICE.

HENRY C. WILDER, OF ASHBY, MASSACHUSETTS, ASSIGNOR TO JOEL G. WILLARD, OF NEW YORK, N. Y.

APPLE PARER, CORER, AND SLICER.

SPECIFICATION forming part of Letters Patent No. 267,475, dated November 14, 1882.

Application filed May 7, 1881. (Model.)

To all whom it may concern:

Be it known that I, HENRY C. WILDER, a resident of Ashby, in the county of Middlesex and State of Massachusetts, have invented a new and useful Apple Paring, Coring, and Slicing Machine, of which the following is a specification.

The object of my invention is to rapidly pare, core, and slice apples to a proper uniform thickness.

It is well known that in the process of "evaporating" apples by artificial heat it is important that the slices should be of nearly uniform thickness, for the reason that a degree of heat to readily dry the thick slices would injure the thin ones.

For convenience of explanation in this specification the cores of apples will be considered cylindrical and as extending entirely through them.

The first part of my invention relates to the combination of gearing with a fork-spindle in such a manner that the said spindle shall rotate, and also be capable of traversing in its bearings, without changing the relative position of the said gearing. This part of my invention secures simplicity and rapidity of operation.

The second part of my invention relates to the combination of an internal screw-thread with a supporting-ring provided with a projection, as hereinafter described, slicing and paring blades, and a traversing fork-spindle, so as to secure a proper uniform thickness of slice.

Figure 1 is a plan view of a machine embodying my invention. Fig. 2 is a side elevation in which the gears D' I, and also the supporting-ring N and the internal screw-thread, O, are shown. Fig. 3 is a perspective view of the supporting-ring N, the internal screw-thread, O, and the slicing-blade L.

A is the frame of the machine, provided with the clamps B B' and the spindle-boxes C C'.

D D' is the crank and driving-gear, supported by the yoke E, which is hung by its boxes F F' to the fork-spindle G, with its lower edge free to slide in the notch H.

G is the fork-spindle, provided with a gear, I, and the fork J, and is supported by the boxes C C', in which it is free to move endwise as it

rotates the apple, while the three operations of paring, slicing, and coring are performed by the paring-blade K, the slicing-blade L, and the longitudinal projection M.

N is the supporting-ring, a light hollow cylinder, which I prefer to construct shorter than its diameter, and provided with a longitudinal projection, M. The former has a spiral edge, by which it is held in such a position to the rear side of the slicing-blade L that its axis is concentric with that of the fork-spindle G, so that it may receive the core, and thereby hold the apple steadily to its center of rotation while the longitudinal projection M cuts the slice from the said core.

O is the internal screw-thread, which commences near the cutting-edge of the slicing-blade L and spirally approaches the supporting-ring N, and, compared with its pitch, it is very thin, so that the core may easily screw into it, and thereby secure a proper uniform thickness of slice. The cutting-edge of the slicing-blade may radiate from the internal screw-thread, O, or be arranged tangentially to it, and there may be more than one blade, so as to simultaneously cut more than one slice.

To operate the machine, place an apple on the fork J and slide it to the internal screw-thread, O; then rotate the crank D, when the core will screw into the said thread O, which will then control its longitudinal motion while it is being pared and sliced by the blades K L and cored by the projection M; then withdraw the fork J, and the core will be removed from it by contact with the internal screw-thread, O.

I am aware that previous to my invention apple-paring machines had been made with blades for coring and slicing and with supporting-rings. I therefore do not claim these things broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. In an apple-parer, the combination of the yoke E, or its equivalent, with a traversing fork-spindle, when such spindle is used to rotate the apple during any or all of the three operations specified.

2. The combination of a fork-shaft, free to turn and slide longitudinally, with a coring-

tube having at the end a flange forming a section of a screw-thread, whereby feeding of the apple is effected, as set forth.

3. In an apple-parer, the combination of the
5 yoke E, or its equivalent, and traversing fork-spindle G with the internal screw-thread, O, arranged and operating substantially as specified.

4. In an apple-parer, the combination of the
10 internal screw-thread, O, with a supporting-ring, arranged as and for the purpose set forth.

5. In an apple-parer, the combination of the

internal screw-thread, O, or its equivalent, with one or more slicing-blades, arranged substantially as described, and for the purpose set
15 forth.

6. In an apple-parer, the combination of the internal screw-thread, O, with the longitudinal projection M, arranged substantially as and for the purpose set forth.

HENRY C. WILDER.

Witnesses:

SAMUEL BROWN,
A. P. BROWN.