

United States Patent Office.

ENOCH J. MARSTERS, OF SHAW'S FLAT, CALIFORNIA.

Letters Patent No. 106,706, dated August 23, 1870.

IMPROVED FRUIT-CORER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ENOCH J. MARSTERS, of Shaw's Flat, in the county of Tuolumne and State of California, have invented a new and valuable Improvement in Fruit-Corers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a side view of my invention.

Figure 2 is an end view of the same.

Figure 3 is an enlarged side view of the coring and quartering cutter.

My invention has relation to certain improvements in devices for coring and quartering apples, and consists in the construction of a sliding frame, provided with prongs, arranged to carry the apple from the rotating prongs of the paring device through the cutters, and in the manner of hinging the cutters, whereby they are enabled to be brought close to the apple when upon the paring prongs.

The letter A, of the drawing, designates the bed-plate, of wood or metal.

B represents the uprights, which support the slide and the rotating shaft.

C designates the rotating shaft, having a small circular head, *c*, furnished with prongs *a*.

D represents the lower guide-rod or shaft, which passes through or under the uprights of the slide, keeping it steady and firm.

E represents the horizontal bar of the slide, from which the perpendicular arms *d d* extend downward.

These arms are perforated for the passage of the shaft C and lower guide-rod D.

Depending from the forward end of the bar E is the head F, a broad plate, having a circular opening, *u*, in the center, of sufficient size to permit the head *c* of the rotating shaft to pass freely through as the slide is drawn backward and forward.

G designates the operating lever, pivoted at *n* to the bed-plate, and slotted at *r*, to admit the pin *s* of the slide.

A washer, *t*, is employed, to prevent unequal wearing.

H H' designates the uprights which sustain the cutter. They are attached firmly to the bed-plate.

One of the arms is notched at the top, to form a catch, *v*, while the shape of the upper portion of the other upright is cylindrical, in order that it may form a pivot, *b*, upon which the cutter is arranged to revolve horizontally.

K designates the cutter.

It consists of a hoop of thin sheet metal, *f*, con-

nected with a tube, *h*, of similar material, placed at its center, by four radial plates, *y*.

Ears, *m*, are attached to the hoop *f*, and serve as a hinge, when passed over the cylindrical end of the standard H'.

A loop or latch, *l*, is also attached to the hoop *f*, and serves to lock the hoop in position opposite to the apple, when placed on the prongs of the paring-shaft.

The cutter K can be removed from the standards, if desired.

The operation of my invention may be thus described:

After the apple has been pared, by any suitable device, and the paring-knife turned out of the way, the cutter K is revolved into place and latched. By means of the lever G, the slide E is thrown forward, striking its prongs, *z z*, which extend forward from the head F into the apple, and forcing it from the paring-fork. It is, by the same movement, carried forward through the cutter, being cored by the tube *h*, and divided into quarters by the plates or knives *y y*.

In my arrangement the cutter is brought close to the paring-fork, leaving just room enough between for the apple. Hence, in order to place another apple on the fork, the cutter must be unlatched and thrown around out of the way, or it may be removed altogether.

It may be observed that instead of a revolving motion, the cutter may be arranged to slide up or down on its standards when the apple is to be placed on the fork.

It is designed to apply my invention to any paring mechanism, the head of the rotating fork being made small and compact, to enable the head of the slide to pass freely over it.

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

1. In combination with the slide E, having prongs *z*, and opening *u*, the shaft C, with fork *c* and *d*, and the adjustable cutter K, when constructed and operated substantially as and for the purposes specified.

2. In combination with the shaft C, having fork *c*, and the lower guide-rod D, the slide E, having arms *d d*, and head F, with opening *u* and prongs *z z*, as specified.

3. The adjustable coring and quartering cutter K, in combination with the standards H H', as specified.

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

Witnesses: ENOCH J. MARSTERS.

A. BULLERDIECK,
DAVID MARCKLEY.