

J. Shobe,
Apple Cover.

No. 109350.

Patented Nov. 15. 1870.

Fig. 1.

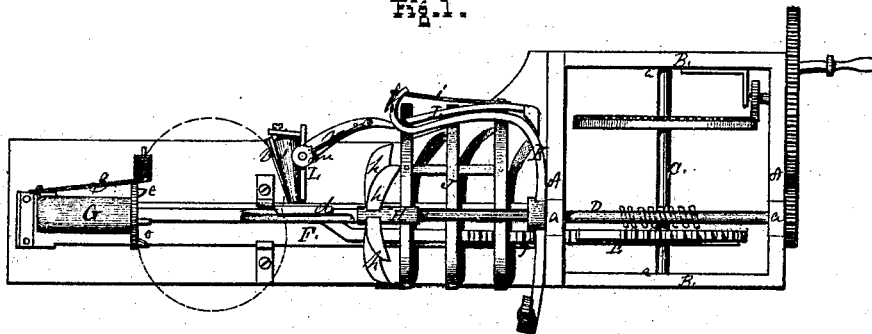


Fig. 2.

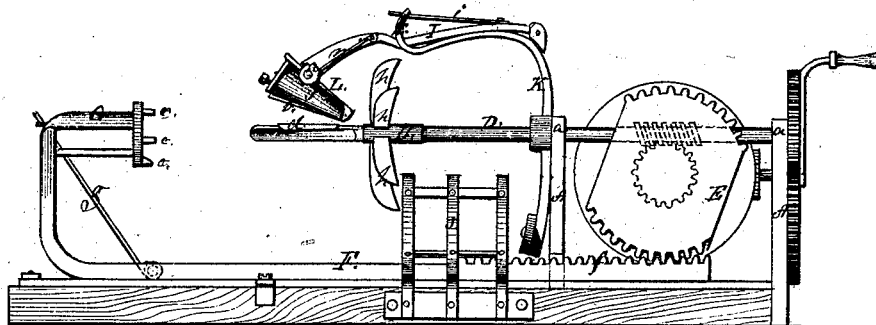
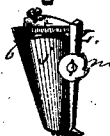


Fig. 3.



Witnesses.

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JAMES SHOBE, OF UPPER PRINCIPIO, MARYLAND.

Letters Patent No. 109,350, dated November 15, 1870.

IMPROVEMENT IN APPLE-PARERS, CORERS, AND SLICERS.

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, JAMES SHOBE, of Upper Principio, in the county of Cecil and State of Maryland, have invented certain new and useful Improvements in a Machine for Paring, Coring, and Quartering or Slicing Apples for Drying and for other purposes; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents a plan or top view of the machine.

Figure 2 is a side view of the same, showing the arrangement of the working parts.

Figure 3 shows a detached view of the conical paring mechanism.

The object of my invention is to prepare apples for drying and for making pies, stewing for apple-sauce, or making apple-butter, in the nicest and most expeditious manner, by automatically paring, coring, quartering, or slicing the apple, all at one and the same time.

My invention consists in the revolving paring-knife, with its cylindrical or conical roller and swivel ratchet mechanism and springs to make it conform to the contour of the apple, the construction and arrangement of the cover, the quartering-blades or slicing-knives, and the manner in which they operate, and the chute or spring conductor to liberate the cut pieces of apples, so that no cores or parings mix with the cut apples.

Also, in the cropped tooth-wheel, rack, and sliding apple-holder, for bringing the apple up to the working parts, so that there is no revolving backward motion to the machine.

To enable others to make and use my improved apple-cutting machine, I will now describe its construction and operation more in detail, referring to the drawing and to the letters marked thereon.

The base or frame-work of the machine may be made of hard wood or of metal, cast or wrought, on which are standards, A and B, to support the journal-boxes *a a* for the shaft C and the shaft or spindle D, which are put in motion by any suitable arrangement of gear mechanism, and operated by a crank with the hand, or by other mechanical power.

A cropped gear or toothed wheel, E, with about one-sixth part of the teeth or cogs taken off on the two opposite sides, is so arranged as to connect with the rack *f* on the sliding bar F, which is provided with a suitable mechanical device, G, with prongs *e e*, to hold the apple in position and bring it up to the working parts while it is being pared, cored, and cut in pieces.

The sliding bar F is relieved as soon as the work is done by the cropped sides of the gear-wheel E, and, by the action of the spring *g*, is thrown back in position to receive another apple.

The shaft or spindle D, to which all of the other

working parts are attached, is placed in a line longitudinally over the sliding bar F and centrally with the apple-holding device G, the end of the spindle D forming a spoon-bit, with the coring-knife *d* attached, the same forming a central support for the apple while the paring-knife revolves around it.

On the spindle D, just back of the coring-knife *d*, is fitted a socket, H, to which the quartering or slicing-blades *h h h* are attached, four or more in number, as may be desired, so that, as the apple is forced onto the spindle D, and being pared and cored, it is cut through endwise into as many pieces as there are blades *h h*. The cut pieces of the apple, being entirely separated from the core and parings, fall on the chute J, and are conducted into a vessel to receive them.

The chute J may be made of any desired form, or of any suitable material, and placed and secured in any desired position to effect its purpose.

Near the journal, on the shaft D, is secured the arm K, to which the paring device is attached, which consists of a hinged arm or lever, I, working in a guide, *k*, on the arm K, provided with a spring, *i*, to press the paring-knife *b* against the apple as it passes around it.

The paring-knife *b* is secured to a stock, L, and is provided with a conical or a cylindrical roller, *j*, to gauge the thickness of the paring and relieve the friction as it runs off the apple.

The stock L is secured to the lever I, so that it will swivel round, and is provided with a notched wheel or tumbler, *m*, and a spring, *n*, to press it in such a manner that it will conform to the contour of the apple as it revolves around it in passing over from one end to the other.

Having thus fully described my improved apple-cutting machine,

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

1. The revolving paring device, consisting of the knife *b*, with its friction-roller *j*, swivel-stock L, ratchet *m*, and spring *n*, as connected with the lever I, spring *i*, and arm E, operating in the manner herein shown and described.

2. The revolving spoon-shaped corer *d* on the shaft D, and the cutting-blades *h h h*, for quartering or slicing apples, substantially in the manner as set forth.

3. The apple-holder *a* on the sliding bar F, with its rack *f*, in combination with the cropped toothed wheel E, for operating the same, as herein specified.

4. The chute J, in combination with the paring, coring, and slicing-blades, as shown and described.

In testimony whereof, I hereunto subscribe my name in the presence of two witnesses.

JAMES SHOBE.

Witnesses:

E. P. BRICKLEY,
WM. P. EWING.