

(Model.)

C. E. HUDSON.

APPLE PARING MACHINE.

No. 319,905.

Patented June 9, 1885.

Fig. 3.

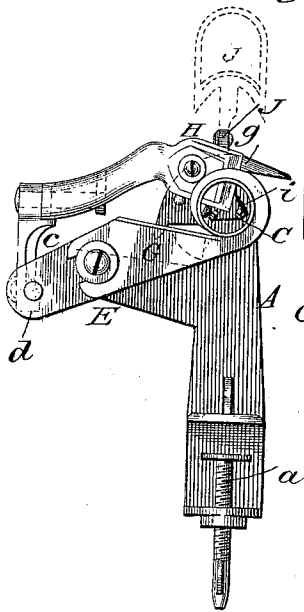


Fig. 1.

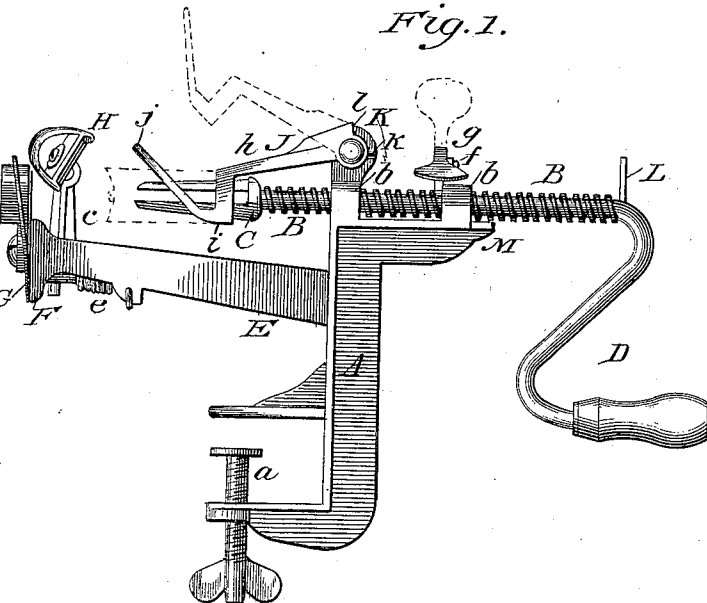
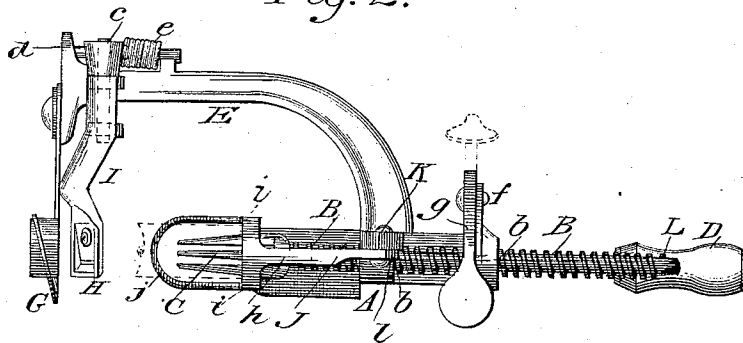


Fig. 2.



Witnesses:

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CHARLES E HUDSON, OF LEOMINSTER, MASSACHUSETTS.

APPLE-PARING MACHINE.

SPECIFICATION forming part of Letters Patent No. 319,905, dated June 9, 1885.

Application filed November 19, 1883. (Model.)

To all whom it may concern:

Be it known that I, CHARLES E. HUDSON, of Leominster, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Apple-Parers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a side view of my machine. Fig. 2 represents a top view of the machine shown in Fig. 1; and Fig. 3 represents an end view of the machine shown in Figs. 1 and 2.

My invention has for its object to improve and simplify a combined parer, corer, and slicing machine; and to this end the invention consists in the novel construction, combination, and arrangement of the parts of my machine hereinafter described, and particularly specified in the claims, my present invention relating more especially to that class of machines for paring, coring, and slicing apples in which the apple is automatically advanced for these several purposes.

In the drawings, A is the frame or standard of the machine, having the usual thumb-screw, *a*, and bearings *b b* in its top part for the screw-shaft B, upon one end of which is secured a fork, C, the other end being provided with the crank and handle D in the usual manner.

The frame or standard A has extending out therefrom, at a point below the screw-shaft, a rigid immovable arm, E, preferably cast with or made to form an integral part with the standard A. The arm E has formed upon its front end the ear F, to the end of which the slicing-knife G is attached by means of a screw, as shown in the drawings.

I do not wish to limit myself to the special manner of attaching the projecting arm E to the standard A, as shown in the drawings, or to the shape shown, as it will readily be seen that the arm E might be attached to the front part of the frame or standard A, instead of at the side. It might also project from that part of the clamping device which rests upon the top of the table; and it also might extend along upon the table, thereby forming the upper part of the clamping device by which the machine is secured to the table, provided,

always, that the said arm E has the forward, outward, and upward inclination in connection with the standard A. The arm E is provided with the outward and upward inclination, (referred to above,) in order that that part of the arm E holding the paring, coring, and slicing knives shall not come under the fruit being operated upon, and consequently the parings, cores, and juice do not fall upon the machine.

The paring-knife H is constructed in the usual and well-known manner, the arm I, to which it is secured, being attached to the rock-shaft *c*, pivoted in bearings *d* on the projecting arm E, said rock-shaft *c* being provided with a spring, *e*, as shown in the drawings, all constructed and operated in the usual manner in machines of this class.

The standard or frame A has pivoted upon its upper part, at *f* a thumb-latch, *g*, by means of which, when the latch *g* is in its proper position, the screw-shaft B is made to advance, and when said latch, which is held in position by gravity alone, is raised up out of contact with said shaft, the shaft may be drawn back.

The part J is the push-off, made in substantially the form shown in the drawings, consisting of the projecting part *h*, of the length of the fork C. From the part *h* extends the two downwardly-projecting parts *i i*, encircling the fork to the extent of about one-half of its circumference. From the lower ends of the parts *i i* extends the upwardly-projecting loop *j*, said loop extending out and away from the fork C on all sides, so that as the fork and the core thereon are brought back toward the standard A they will not come in contact with the loop *j* of the push-off J, but will pass freely through the same until the core reaches the downwardly-projecting and encircling parts *i i* of the push-off J, when the core is pushed off by coming in contact therewith.

The push-off J is pivoted or hinged to an upright, K, upon the upper part of the standard A, said upright K having a stop, *k*, against which an offset, *l*, on said push-off strikes, to prevent the push-off being carried past its center of gravity when an apple is brought too suddenly against the same.

I do not wish to limit myself to the special form of the extension part *j* of the push-off J, as herein described, and shown in the draw-

ings, my object being to make the outer end of the push-off in such a manner and of such a shape that it will be readily raised by placing an apple upon the fork without the necessity of raising it by the hand of the operator.

Upon the crank end of the screw-shaft B there is secured in any suitable manner a projecting part, L, (see Fig. 1 of the drawings,) the object of which is to limit the longitudinal movement of the screw-shaft by said part L coming in contact with a knob or small projection, M, on the frame A.

From the above description, in connection with the drawings, the operation of my improved machine will be readily understood, and is as follows: The thumb-latch *g* is raised up into the position shown by dotted lines, Fig. 1. The screw-shaft B is then drawn back until the inner end of the fork C comes in contact with the bearing *b*. The apple is placed upon the fork and raises the push-off J into the position shown by dotted lines, Fig. 1. The screw-shaft B, with the apple on the fork C, is pushed along until the fruit comes in contact with the paring-knife H, the push-off J having dropped down into the position shown by full lines in the drawings. The thumb-latch *g* is dropped down into contact with the screw-shaft B. The crank-handle D is then turned, forcing the apple against the paring, coring, and slicing knives, which operate in the usual and well-known way to pare, core, and slice the apple. As the crank-handle D is turned the projecting part L, coming in contact with the part M on the standard A, stops the longitudinal movement of the screw-shaft B. After the apple has been operated upon as above described the thumb-latch *g* is raised and the screw-shaft B is drawn back, in which

operation, the end of the core, coming in contact with the parts *i i* of the push-off J, the core is pushed off of the fork C and said fork is ready for the reception of another apple, and the operation is repeated.

Having described my improvements in apple-paring machines, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. The screw-shaft B, having both a rotary and longitudinal movement, and having at the crank end of the shaft the part L, projecting out at right angles from the shaft, in combination with the part M, located on the upper part of the frame A, substantially as shown, and for the purpose stated.

2. The screw-shaft B, having both a rotary and longitudinal movement through bearings in the top of the frame A, in combination with the frame A, having the rigid arm E, extending out therefrom at a point below the screw-shaft, said arm E extending forwardly, outwardly, and upwardly away from the frame A and the table, substantially as shown and described.

3. The combination, with the frame A, having an upright, K, and stop *k*, of the screw-shaft B and hinged or pivoted push-off J, having the offset *l*, substantially as shown, and for the purpose stated.

4. The combination, with the frame A and fork-shaft B, of the push-off J, having the projecting part *j*, extending outwardly from the push-off, and parts *i i*, for the purpose stated, substantially as shown and described.

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Witnesses:

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