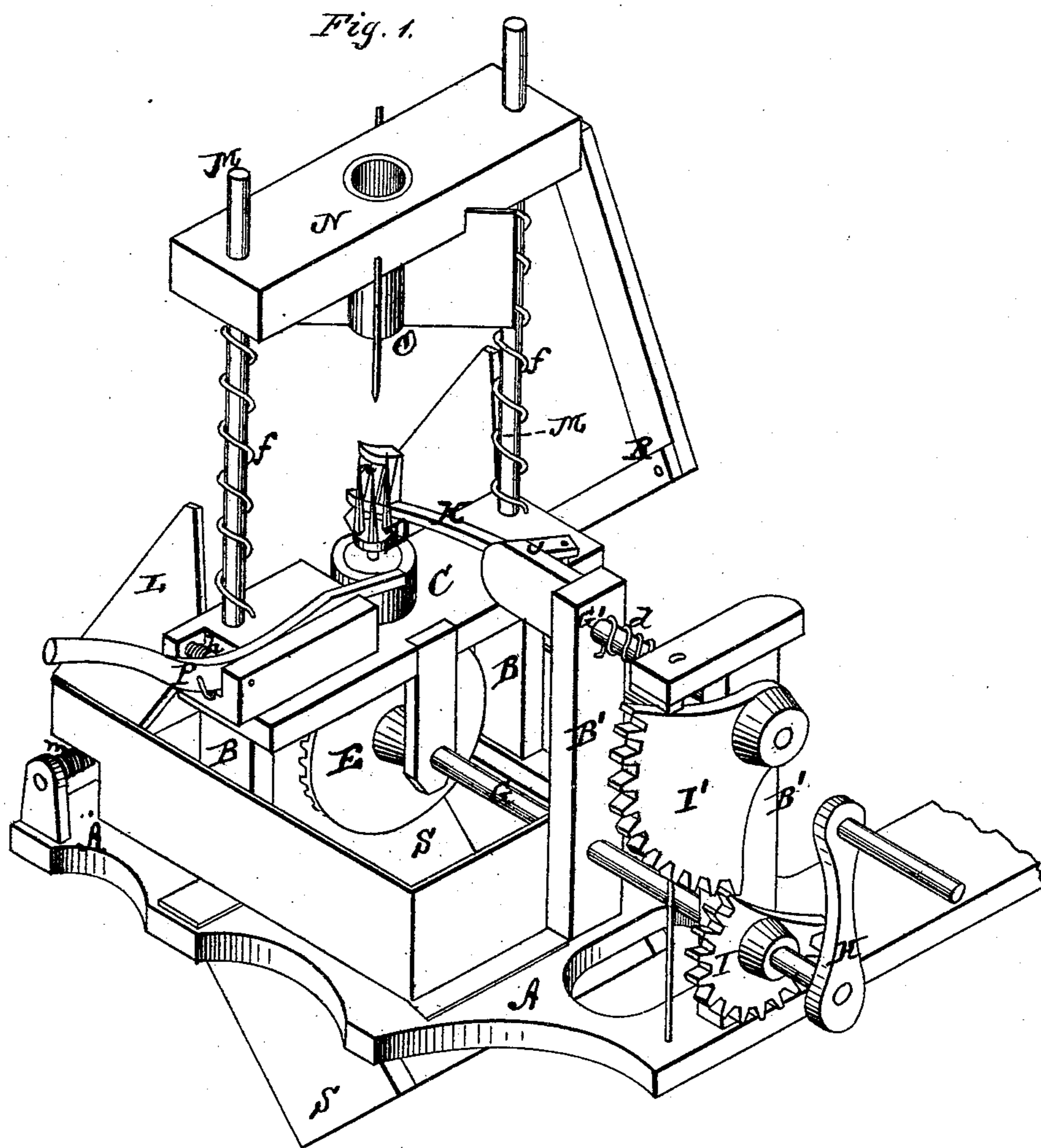


H. S. LEONARD.

Apple Parers and Corers.

No. 134,078.

Patented Dec. 17, 1872.



Witness:

Henry N. Miller
C. L. Ewert.

Inventor.

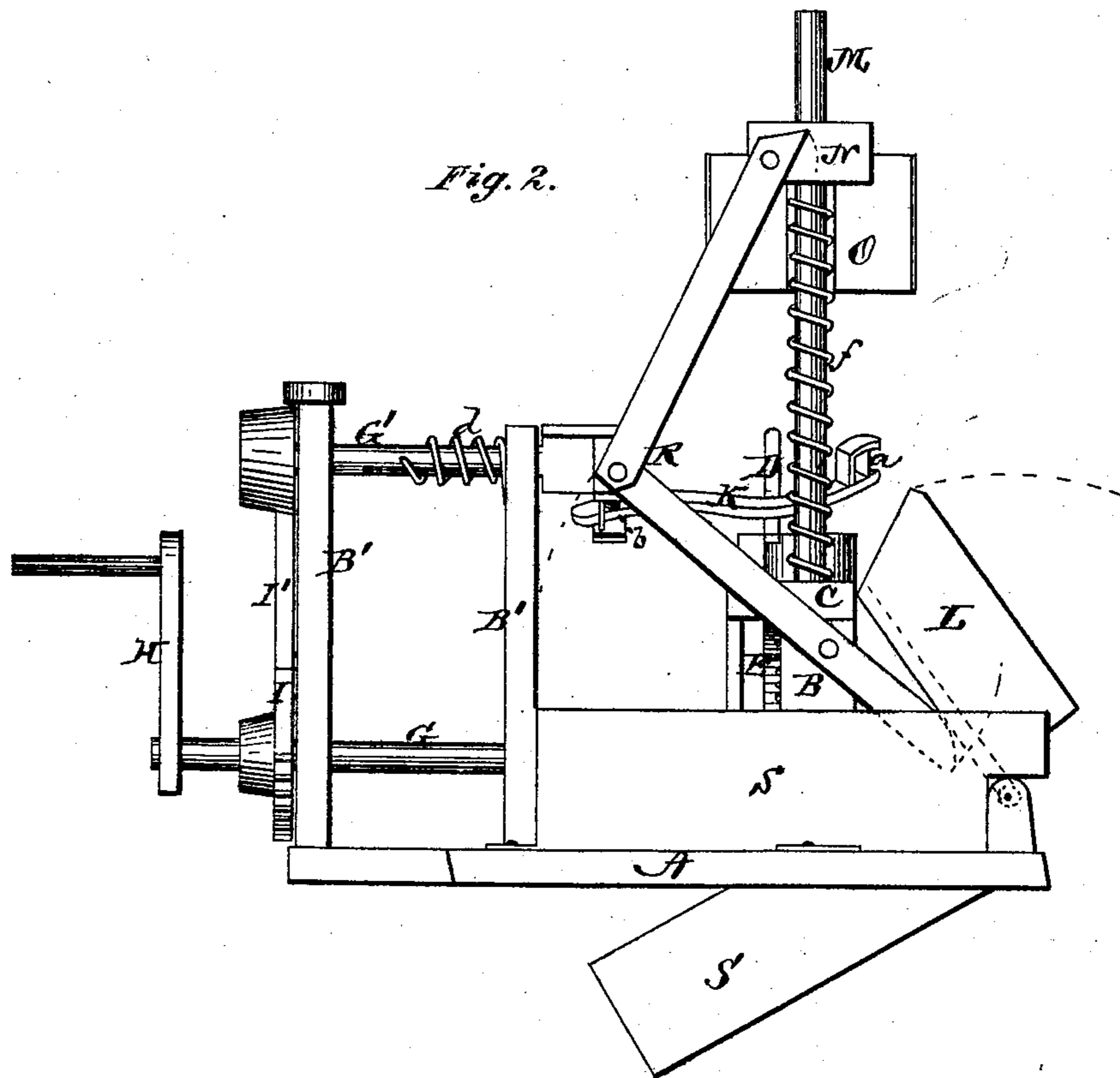
H. S. Leonard.
per *Handy*
Attorneys.

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Attorneys.

UNITED STATES PATENT OFFICE.

HIRAM S. LEONARD, OF ATTICA, OHIO.

IMPROVEMENT IN APPLE PARERS AND CORERS.

Specification forming part of Letters Patent No. 134,078, dated December 17, 1872.

To all whom it may concern:

Be it known that I, HIRAM S. LEONARD, of Attica, in the county of Seneca and in the State of Ohio, have invented certain new and useful Improvements in Apple Paring and Coring Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a machine for paring and coring apples, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, and Fig. 2 is a side elevation, of my machine.

A represents the bed-plate or frame which supports all the working parts of my machine. From this bed-plate rise two standards, B B, supporting at their upper ends a cross-bar or narrow platform, C. Through the center of this platform passes a short shaft, carrying at its upper end the fork D, and provided at its lower end, immediately below the platform, with a pinion to gear with a cog-wheel, E, upon a shaft, G, for driving the fork. The cross piece or platform C serves as a cap to keep the parings from falling in the wheel, and also as a sill upon which the apple rests firmly until it is cored. The inner end of the shaft G is suspended in a hanger from the platform C, and the shaft is further supported in two standards, B' B', rising from the bed-plate A. On the outer end of the shaft G is a crank, H, for turning the same, and on the shaft is secured a cogged segment, I, which is made to gear with a cogged segment, I', upon a shaft, G', which passes through the upper ends of the standards B' above and parallel with the shaft G. Upon the inner end of the shaft G' is a forked head, J, in which is pivoted an arm, K, which carries the paring-knife *a* at its outer end, and on the pivot of the arm K is a spring, *b*, for holding the knife against the apple. Around the shaft G' is

another spring, *d*, to throw the knife back again after it has been turned by the segments I I'. These segments throw the knife far enough around to pare the apple, and then, by means of the spring *d*, the knife is thrown back out of the way till the apple is cored. The gear-wheels are of such relative size that more motion is given to the apple and paring on every revolution of the crank. The knife *a* is so constructed that it throws the paring away from the machine and into a spout or separator, L. On each side of the fork D, upon the platform C, is a perpendicular post, M, upon which is placed a slide, N, carrying the corer O. These posts serve as guides to carry the corer directly on the apple while the same is on the fork. Under the slide N, and on each post M, is placed a spiral spring, *f*, to draw or force the corer out of the way of the parings as soon as it has cored the apple. This leaves the core on the fork, and to remove the same I have constructed a lever, P, working on a spring, *h*, one end of which lever reaches directly under the apple while on the fork, and by a single touch of the hand it throws the core off from the fork, and the spring *h* carries the lever back to its place again. The spout L is held by a spring, *m*, in proper position to catch the parings and cores, the spout being pivoted at its lower end and moved back and forth by the point of a double joint lever, R, sliding against it, said lever being attached to the slide N. As this slide goes down the spout L is pressed out, giving room for the apple to fall into the hopper S below and through a spout into a vessel underneath placed there to catch it.

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

1. The combination of the arm K with knife *a*, shaft G' with head J and springs *b* *d*, and the cogged segments I I', all substantially as and for the purposes herein set forth.
2. The combination of the shaft G with bevel cog-wheel E, and fork D with pinion on its lower end gearing with said wheel, substantially as and for the purposes herein set forth.
3. The arrangement of the bed-frame A with standards B B, and the platform C through which the shaft of the fork D passes, with the

fork above and the gearing below said platform, for the purposes herein set forth.

4. The combination of the slide N with corer O, guide-posts M with springs *f*, jointed lever R, and spout L with spring *m*, substantially as and for the purposes herein set forth.

5. The combination of the frame A B C, fork D, shafts G G', gearing I I' E, arm K with knife *a*, slide N with corer O, and spout L, and the spout S, all constructed and arranged sub-

stantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 31st day of October, 1872.

H. S. LEONARD.

Witnesses:

JONATHAN LEONARD,
WILLIAM M. MILLER.