J. D. SEAGRAVE.

APPLE-PARERS.

No. 183,271. Patented Oct. 17, 1876.

FIG. 1

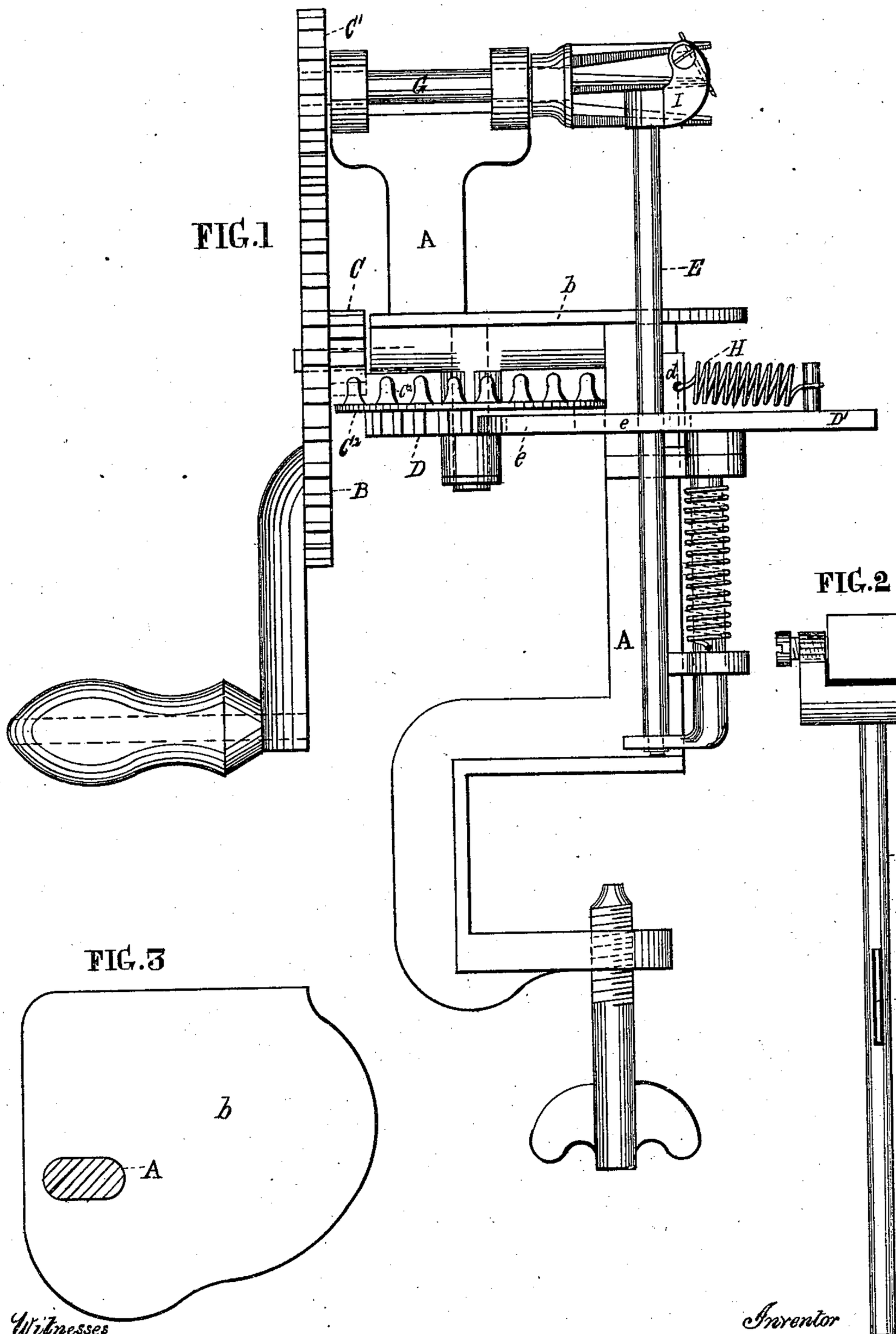

FIG. 2

FIG. 3

Witnesses

Thomas J. Bewley.

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UNITED STATES PATENT OFFICE.

JOHN D. SEAGRAVE, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN APPLE-PARERS.

Specification forming part of Letters Patent No. **183,271**, dated October 17, 1876; application filed August 21, 1876.

To all whom it may concern:

Be it known that I, JOHN D. SEAGRAVE, of Worcester, in the county of Worcester and State of Massachusetts, have invented an Improvement in Fruit and Vegetable Parers, of which the following is a specification:

My invention is an improvement on the machine for which Letters Patent were granted to me April 18, 1854, No. 10,785, and consists of the following particulars:

In the patent referred to, one end of the tension-spring by means of which the knife-shaft has an elastic lateral movement in accommodation to the size of the apple or other article to be pared, was connected with the shaft by passing it through a hole drilled through it, and the shaft was thereby weakened. To avoid the weakening of the shaft, and also to form a guide for the shaft to prevent its lateral movement in the slot of the toothed sector, a lug is cast on the knife-shaft, and a hole drilled in said lug, through which one end of the tension-spring is passed, the other end of the spring being connected with a pin that projects upward from the upper edge of said toothed sector.

A horizontal plate is cast with the upper and lower parts of the standard above the horizontal wheel, through which motion is given to the knife-shaft, whereby to increase the strength of the standard, and also to prevent the parings from falling into the teeth of said wheel, and clogging it.

In the accompanying drawings, Figure 1 is a side elevation of my improved fruit and vegetable parer. Fig. 2 is a side view of the knife-shaft at right angles to its position in Fig. 1. Fig. 3 is a top view of the connecting-plate *b*.

Like letters of reference in all the figures indicate the same parts.

A is the standard with which the moving parts of the parer are connected. The upper and lower parts of the standard are connected with the plate *b*, cast therewith, whereby great strength and firmness are secured. Said plate is made sufficiently large to cover the horizontal wheel C^2, and thereby prevent the parings from falling into and clogging it.

A series of gear-wheels, consisting of the driving-wheel B, pinions C and C^1, and horizontal wheel C^2, having on its under side a cogged segment, D, which gears into the cogged sector D′, are used for giving motion to the knife-shaft E and the fruit-holder shaft G; but as the construction and arrangement of the gearing are not new, a particular description is omitted.

The knife-shaft E has a lug, *d*, cast on one side for the connection of one end of the tension-spring H, to prevent the weakening of the shaft which occurs when it is drilled through for that purpose. This lug projects downward into the slot *e* of the cogged sector-plate D′, to limit the lateral movement of the shaft in the slot. On the upper end of the knife-shaft is a cutter-head, I, cast thereon, to give simplicity and strength to the parts and lessen the cost of the shaft.

I claim as my invention—

1. The standard A, having its upper and lower parts connected by means of the horizontal plate *b*, cast therewith, substantially in the manner and for the purpose set forth.

2. The knife-shaft E, having a lug, *d*, cast on one side, for the connection of the tension-spring H, and to prevent the shaft turning in the slot *e* of the cogged sector-plate, substantially as set forth.

JOHN D. SEAGRAVE.

Witnesses:
THOMAS J. BEWLEY,
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