

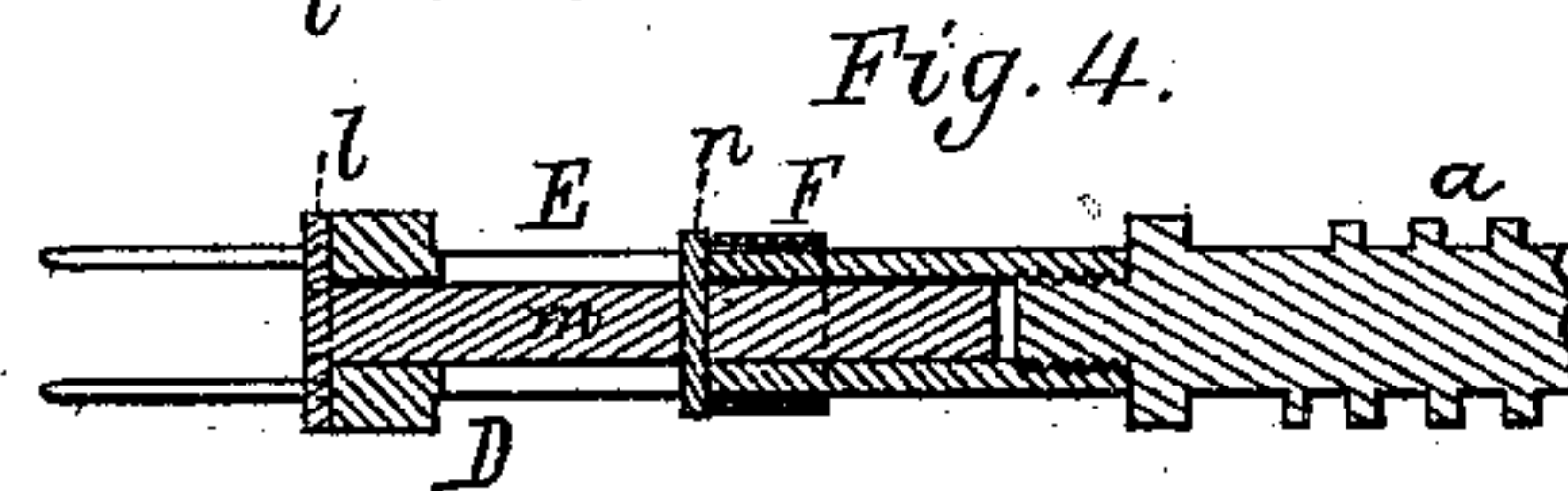
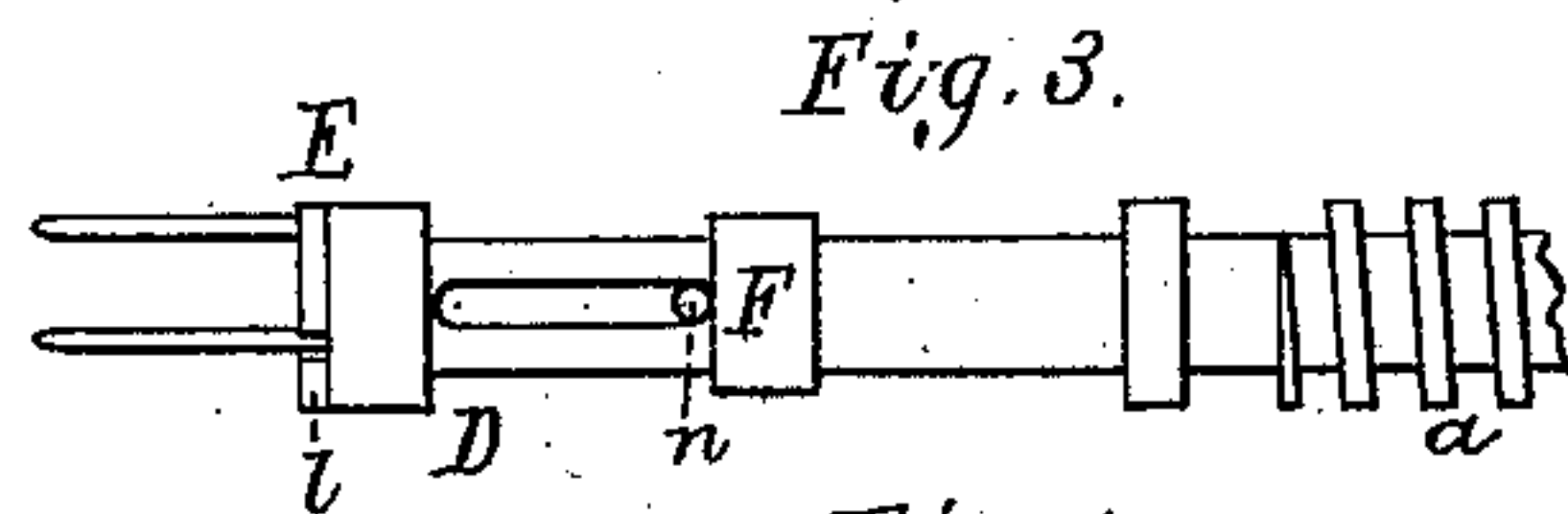
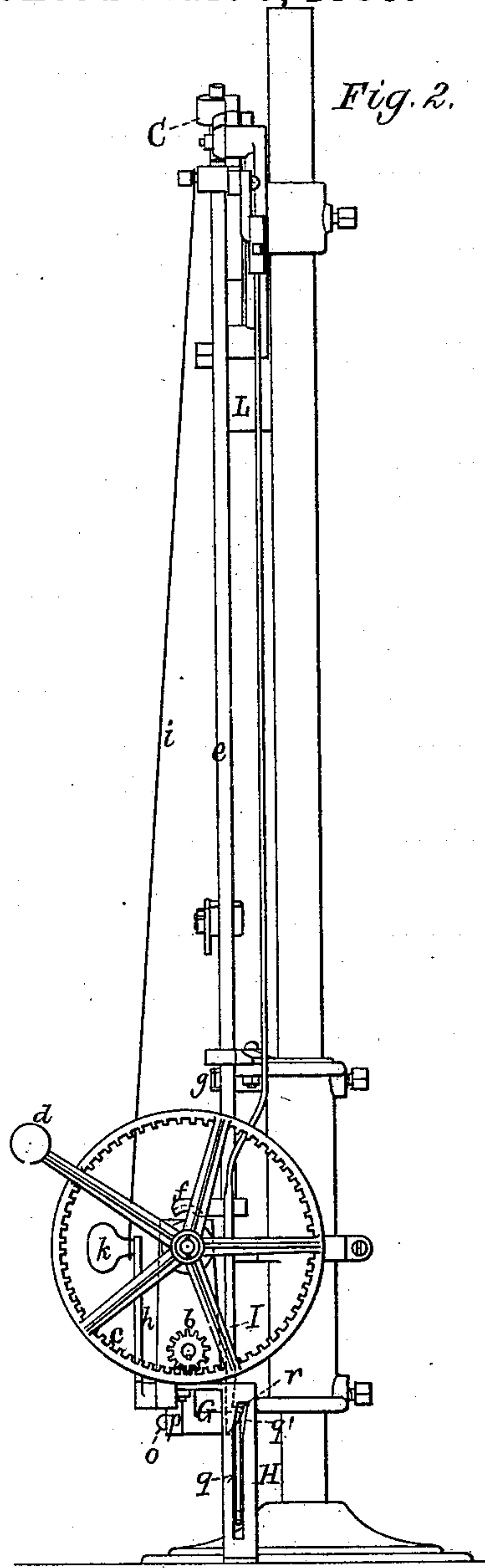
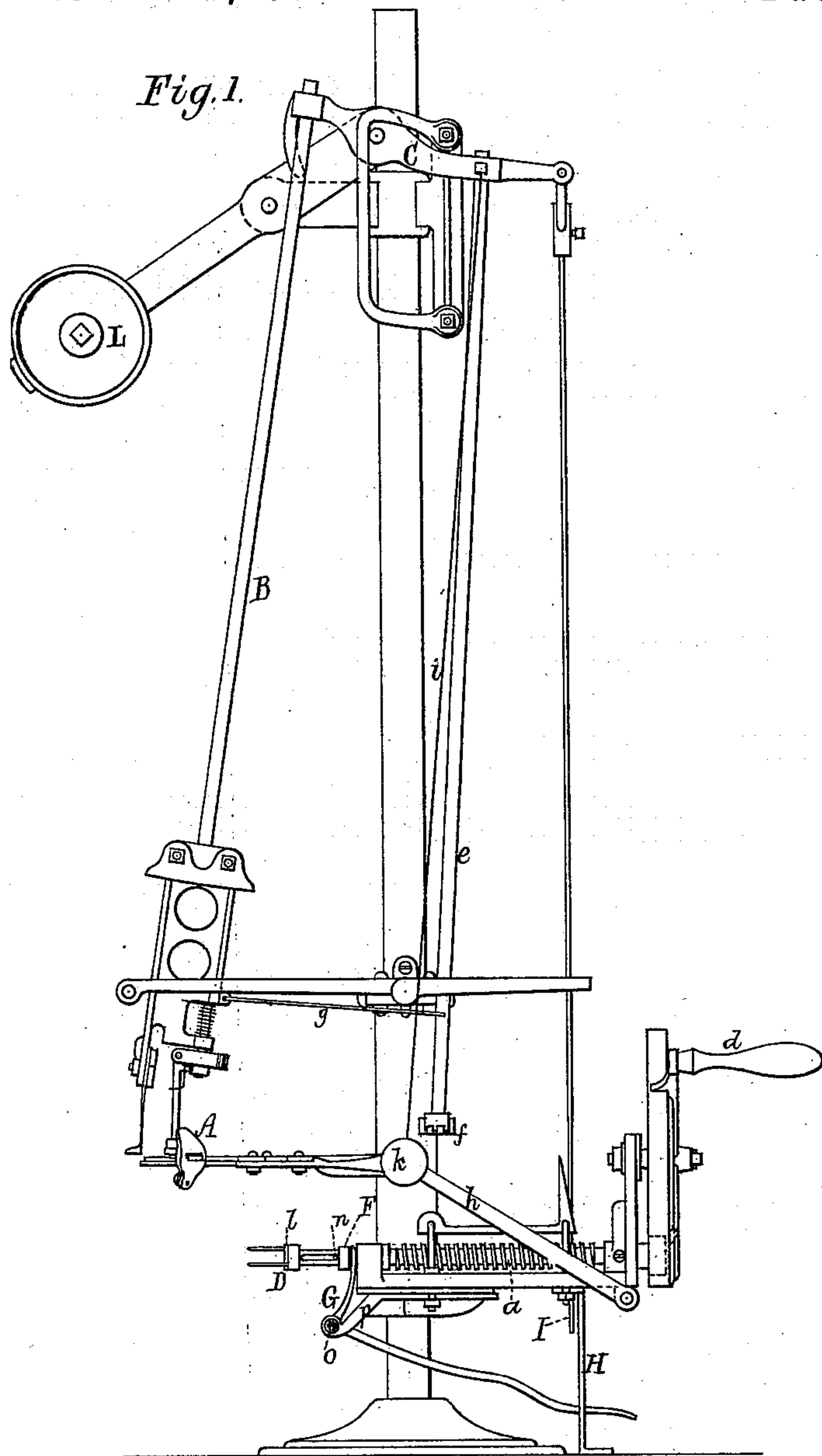
(Model.)

A. B. CARTER.

APPLE PARER

No. 273,255.

Patented Mar. 6, 1883.



*Witnesses*  
*S. N. Piper*  
*E. D. Pratt*

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# UNITED STATES PATENT OFFICE.

ALBA B. CARTER, OF RAYMOND, NEW HAMPSHIRE.

## APPLE-PARER.

SPECIFICATION forming part of Letters Patent No. 273,255, dated March 6, 1883.

Application filed September 30, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, ALBA B. CARTER, of Raymond, in the county of Rockingham, of the State of New Hampshire, have invented a new and useful Improvement in Fruit or Vegetable Paring Machines; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, and Fig. 2 a side view, of a paring-machine embodying my invention. Fig. 3 is a side view, and Fig. 4 a horizontal and longitudinal section, on an enlarged scale, of a portion of the forked shaft, with the cast-off and its annulus (to be hereinafter described) applied thereto.

My invention has special reference to a class of apple-parers, one of which is represented and described in Letters Patent No. 229,251, dated June 29, 1880.

In carrying out my said invention I combine with the forked shaft for supporting and revolving the apple while in the act of being pared, and also the counterbalance-supporter of the knife-head-sustaining rod, a cast-off and its annulus, (applied to such forked shaft,) and an operative lever, a stationary slotted standard, and a lifter or lifting-hook, the latter being connected with and depending from the said supporter, and the lever being applied to the annulus, and all being substantially as hereinafter described and as represented in the aforesaid drawings.

My additions to the machine for paring an apple are for discharging or casting it off the prongs of its rotary shaft immediately after the paring of it, or the paring, coring, and slicing of it, may have been effected; and as my invention is in no respect an improvement in the mechanism for effecting the paring of the apple, it is not necessary for me to describe such, further than to state that it is substantially like that described in the aforesaid patent, the knife-head being represented in the accompanying drawings at A, its sustaining-rod at B, and the counterbalance-supporter of such rod at C, while the forked shaft for supporting the apple is shown at D. This shaft is screw-threaded, as represented at *a*, and is provided at its outer end with a pinion, *b*, to engage with an internal gear, *c*, provided with

a crank, *d*, for revolving it. A rod, *e*, extending down from the supporter C has at its lower end a foot, *f*, to engage with the screw *a* of the forked shaft, such rod *e* being connected with the head A by means of a rod, *g*, extending from one to the other of them.

An arm, *h*, provided with a handle or knob, *k*, and arranged as shown, and connected with the supporter C by a wire, *i*, serves to enable a person to depress the paring mechanism to the apple at the proper time.

Having thus referred not only to the parts of the mechanism to which my additions are made, but some others in immediate proximity, I shall now proceed to describe the said invention.

The cast-off is shown at E, it being mainly composed of a disk, *l*, and a spindle, *m*, within the shaft D. Said disk is fastened to the spindle concentrically, which spindle slides longitudinally in the shaft D, such shaft being slotted lengthwise to receive a pin, *n*, that passes diametrically through it and the spindle, and is fastened into the latter and projects in opposite directions from the shaft. A collar or annulus, *F*, slides freely on the shaft D, and is arranged between the pin *n* and the shorter forked arm of a knee-lever, *G*, the fork of which embraces the shaft. The annulus may have a groove extending around it to receive the end of the arm of the lever, and such annulus may be fastened to the pin, or have the pin extended through it as well as through the shaft and spindle. The knee-lever pivoted at *o* to a stationary arm, *p*, has its longer arm extended through the slot *q* of a stationary standard, *H*. The said slot *q* is vertical, except at its upper part, where it is inclined, as shown at *q'*.

The lifter, as represented at I, consists of a rod jointed at its upper end to the supporter C, extending down through a hole or slot in the head of the standard *H*, and at its lower end terminating in a hook, *r*. While the arm *h* is being depressed to draw downward the supporter C the lifter will also be moved down, so as to catch under the longer arm of the knee-lever *G*. On the paring of the apple having taken place, the supporter C is suddenly raised upward by its counter-balance or weighted lever *L*. In thus rising the supporter car-



ries up with it the lifter I, which moves the knee-lever G in a manner to cause the cast-off to be suddenly moved, so as to eject the apple from the prongs of the shaft D, which having taken place the longer arm of the lever passes up the inclined part *q'* of the slot in the standard, and by such is moved so as to free itself from the hook of the lifter. On an apple being crowded upon the prongs of the shaft, it will force the cast-off backward to its rearward position.

I do not claim the machine, or any part thereof, shown and described in the aforesaid Patent No. 229,251.

What I claim as my invention is as follows, viz:

In combination with the forked shaft D, the rod *e* and foot *f*, and with the counterbalance-supporter C of the knife-head-sustaining rod B, the cast-off E and its annulus F, (applied to the said forked shaft,) and the knee-lever G, slotted stationary standard H, and the hooked lifter I, the latter being jointed to the said supporter and the lever being applied to the annulus, and all being arranged to operate substantially and for the purpose as set forth.

ALBA B. CARTER.

Witnesses:

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