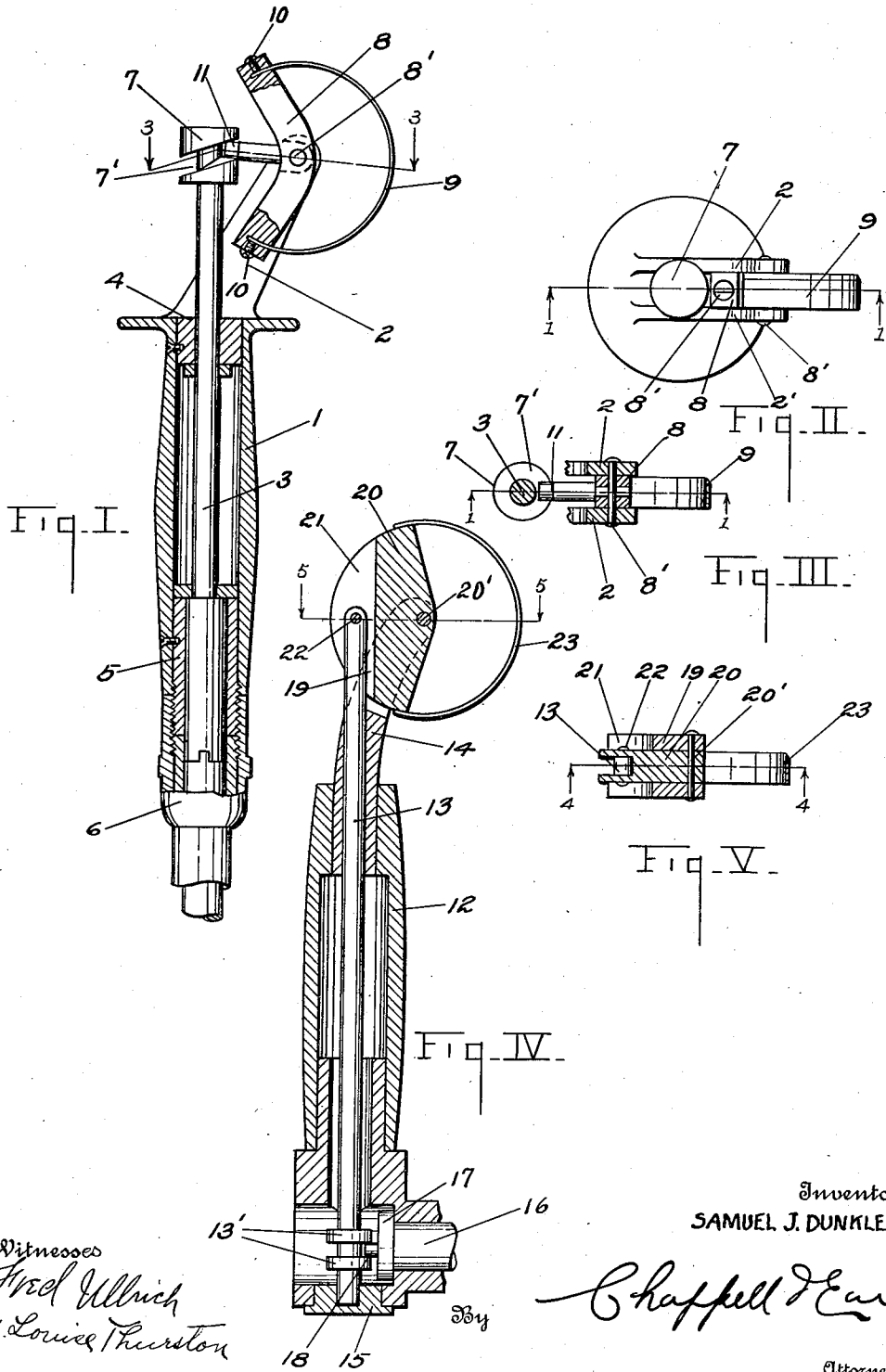


S. J. DUNKLEY.
PITTING KNIFE.
APPLICATION FILED JAN. 28, 1919.

1,353,328.

Patented Sept. 21, 1920.



Witnessed
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PITTING-KNIFE.

1,353,328.

Specification of Letters Patent. Patented Sept. 21, 1920.

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To all whom it may concern:

Be it known that I, SAMUEL J. DUNKLEY, a citizen of the United States, residing at Kalamazoo, Michigan, have invented certain new and useful Improvements in Pitting-Knives, of which the following is a specification.

This invention relates to improvements in pitting knives. The object of the invention is to provide an improved reciprocating pitting knife and improved means for actuating the same.

Objects relating to details of construction and operation will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is fully illustrated in the accompanying drawing, forming part of this specification, in which:

Figure I is a longitudinal detail sectional view through my improved pitting knife structure, parts being shown in full lines, taken on a line corresponding to line 1—1 of Figs. II and III.

Fig. II is an end elevation view of the structure appearing in Fig. I from toward the top end of the sheet.

Fig. III is a detail transverse sectional view on the irregular line 3—3 of Fig. I, showing details of the actuating cam structure.

Fig. IV is a detail longitudinal sectional view through a tool embodying a modification of my structure, taken on a line corresponding to line 4—4 of Fig. V.

Fig. V is a detail transverse sectional view taken on line 5—5 of Fig. IV.

In the drawings the sectional views are taken looking in the direction of the little arrows at the ends of the section lines and similar numerals of reference refer to similar parts throughout the several views.

Considering the numbered parts of the drawing, 1 is a handle provided with forked arms 2 in the outer end, having a revoluble shaft 3 disposed axially in suitable bearings 4 and 5 therein. A flexible shaft connection 6 is provided for driving this shaft 3. Shaft 3 is provided with suitable thrust collars. On the end of the shaft 3 is dis-

posed a cylindrical cam 7, having a groove 7' therein.

Pivoted between the arms 2 is a rocker 8 carried on the pivot 8'. A curved knife 9 in the form of a portion of a circle is carried by this rocker 8 and is secured in position by suitable screws 10. A pin 11 extends up from near the pivot point of the rocker into the cam slot 7' in the cam 7, so that when the cam rotates the arm 8 will rock on its pivot, causing the curved knife 9 to reciprocate in the path of its length. The shaft 3 is preferably rotated at about 1800 revolutions per minute, thus giving the knife a very rapid vibration.

In Figs. IV and V, I have shown a modification of the means for rocking the rocker part and have shown the rocker part slightly modified. The handle 12 is provided with an axially disposed slide 13 supported in bearings in the bushings 14 and 15. The slide is provided with collars 13', 13'. A cross shaft 16 with disks 17 and wrist pin 18' is provided for engaging between the collars 13', 13', to reciprocate the slide 13. A bifurcated arm 19 carries the rocker 20, which is slotted at 21 and is connected by pivot 22 to the slide 13. The rocker 20 is pivoted at 20' and carries the curved blade 23, which is curved in the segment of a circle.

It is clear that rotation of the shaft 16 will cause reciprocation of the slide 13 and cause the blade to oscillate in precisely the same manner as the blade oscillates in the structure appearing in Fig. I. The fruit is cut in half by a splitting saw or other means preparatory to the use of my improved pitting knife, which removes the halved pit from the halved fruit.

From this description it is clear that the structure can be considerably modified. I desire to claim the same, however, in the specific forms illustrated, and also broadly as indicated in the appended claims.

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

1. The combination of a suitable handle, an axially disposed shaft therein, with means for driving the same, a fork on the end of said handle, a rocker pivoted between the arms of said fork, a curved blade

carried on the said rocker and adapted to be oscillated therewith, a cylindrical cam on the end of said shaft, and a pin on the said rocker engaging the said cam, coacting as
5 specified.

2. In a peach pitter, the combination of a suitable handle, with a bifurcated arm on the end, a rocker pivoted between the said arms, a curved blade carried by said rocker,

and means for oscillating the said rocker, 10 coacting as specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

SAMUEL J. DUNKLEY. [L. s.]

Witnesses:

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