

(No Model.)

O. P. SQUIER.

CENTRIFUGAL HONEY EXTRACTOR.

No. 309,003.

Patented Dec. 9, 1884.

Fig. 1.

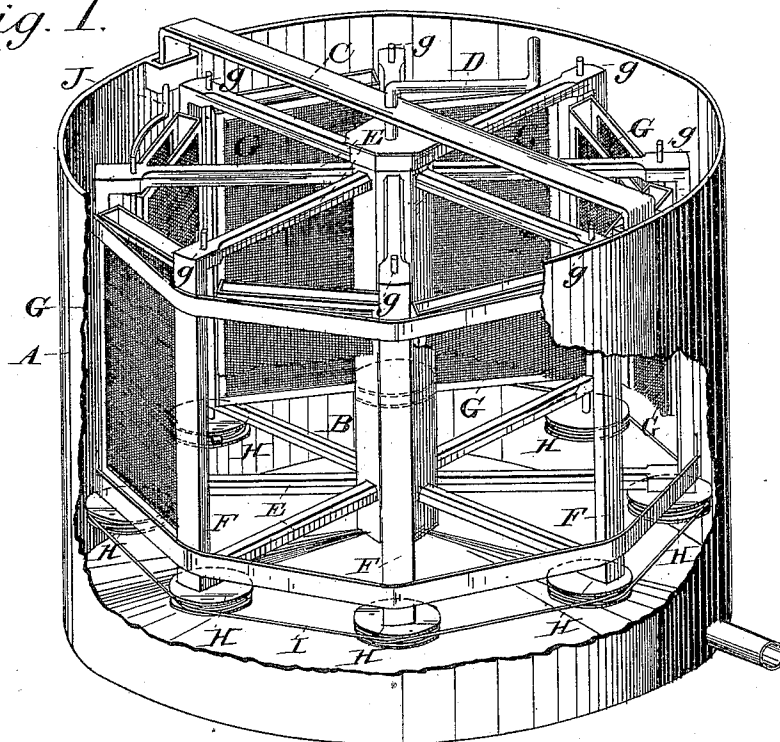
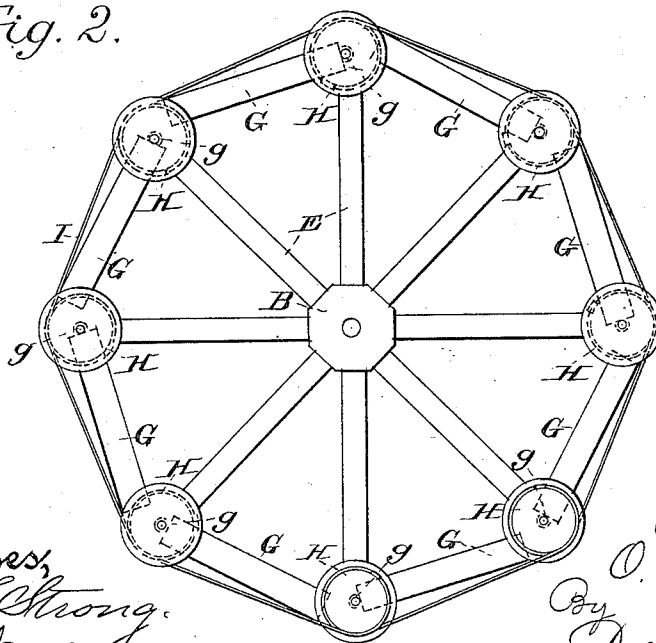


Fig. 2.



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CENTRIFUGAL HONEY-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 309,003, dated December 9, 1884.

Application filed July 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, OLIVER PERRY SQUIER, of Santa Barbara, county of Santa Barbara, and State of California, have invented an Improvement in Centrifugal Honey-Extractors; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to that class of centrifugal honey-extractors in which the pockets or frames containing the combs are arranged in the circumference of the rotating basket, whereby the honey is thrown from the sides of the pockets into the vessel or case in which the rotating basket is mounted; and my invention consists in a peculiar connection between the several pockets, whereby, through the movement of one, all of said pockets are simultaneously reversed, in order to present their opposite sides outwardly, that the honey from both sides may be extracted in the course of the operation.

The object of my invention is to so connect all the pockets that all of them may be reversed easily and at the same time, thus obviating the necessity of removing them from the basket in which they are mounted, or of employing time in turning or reversing each pocket separately.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a perspective view of my centrifugal honey-extractor, various portions of the machine being cut away in order to show the chief feature of my invention. Fig. 2 is a plan, looking up from underneath the pulleys.

A is an exterior vessel or casing, in the bottom of which is stepped a vertical shaft, B, the upper end of which is suitably mounted in a cross-bar, C, of the exterior casing, and is provided with a crank, D, or other suitable means by which power is transmitted to rotate said shaft. From the bottom and top of the shaft extend radial arms E, between the ends of which are vertical connecting-strips F, thus forming a basket of a polygonal shape, around the circumference of which are passed suitable tie-straps.

G are the pockets or frames, having foraminous or perforated sides, between which the honey-combs are placed and contained. One

edge of each of these pockets is provided with a vertical pintle or shaft, *g*, the ends of which are pivoted above and below in the radial arms E, the lower ends of said shafts extending below the lower radial arms, and having secured upon them pulleys H.

I is an endless band, cord, belt, or cable properly secured upon and passed around one of the pulleys, from which it passes around each of the others, thus connecting all of said pulleys together, whereby upon the movement of the first all are operated. The pintle or shaft of one of the pockets is extended upward through the upper radial arm, and is provided with a crank, J, whereby the power is applied to one pocket in order to reverse all.

The operation of the device is as follows: The honey-combs are placed in the pockets, and these are turned into the circumference of the basket, thus presenting one side outwardly. The basket is then rotated rapidly, whereby, by reason of the centrifugal force, the honey is extracted from the comb, passing through the outer perforated side of the pockets into the exterior vessel or casing. When all the honey has been extracted from this side, the basket is stopped for a moment, and the crank J is turned half-way around, thus throwing the pocket to which it is attached through about half a circle to turn its other side outwardly. This movement of the governing-pocket causes all the other pockets at the same time with it to reverse, turning their inner sides outwardly, the motion being transmitted through the endless belt or cord passing over the several pulleys to each of the pockets. The rotation of the basket is then continued, whereby the honey from the now outer sides of the pockets is thrown outwardly into the vessel.

The advantage of simultaneously reversing all the pockets is in the saving of time by obviating the necessity of turning each separately, as is usually the case. The means here shown for accomplishing this result are simple and effective.

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

The outer vessel, A, and rotating basket pro-

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vided with radial arms E and connecting-strip F, in combination with a series of comb pockets or holders, G, having pintles or shafts g, pivoted in the radial arms in the circumference of the basket, and a means by which
5 said pockets or holders are simultaneously reversed, consisting of the pulleys H upon the lower ends of the pintles, the endless cord or chain I, passing around said pulleys, and a

crank, J, upon the upper end of one of the 10 pintles; substantially as herein described.

In witness whereof I have hereunto set my hand.

OLIVER PERRY SQUIER.

Witnesses:

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WILLIAM DEMLANEY.