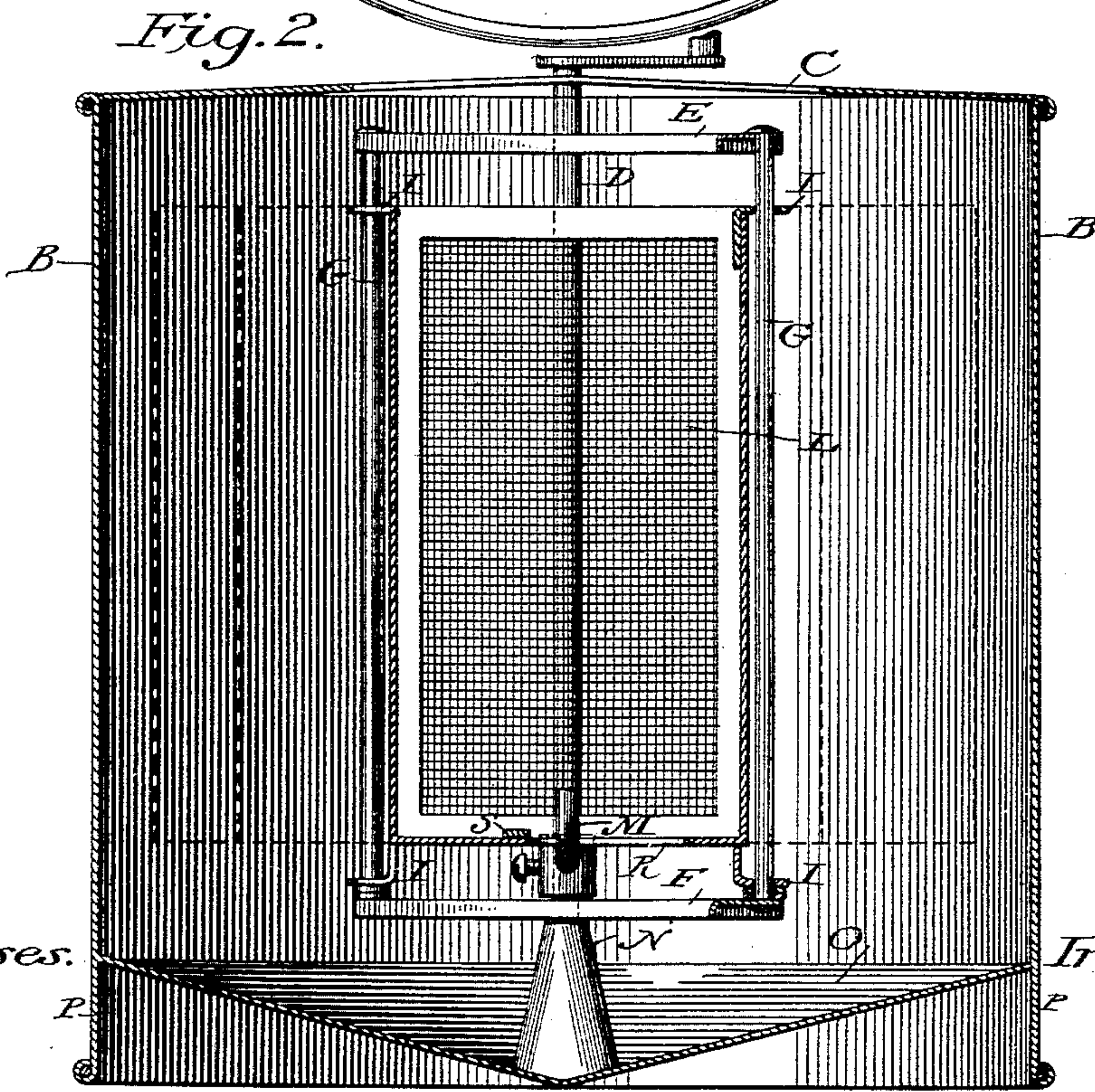
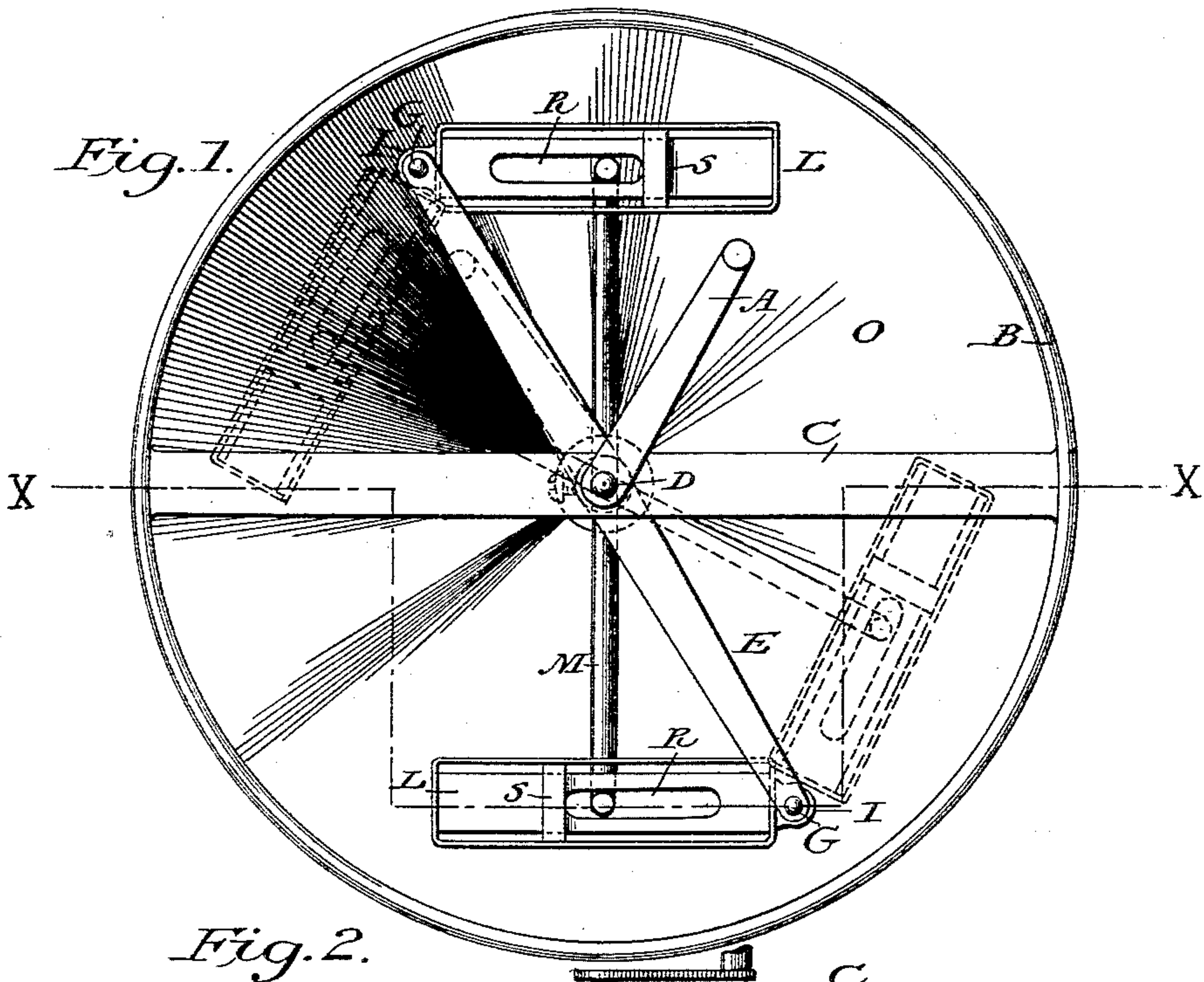


(Model.)

W. BAYLESS.
HONEY EXTRACTOR.

No. 476,722.

Patented June 7, 1892.



Witnesses.

Inventor:

W. H. Dwyer.
H. J. Geibergood.

William Bayless.

UNITED STATES PATENT OFFICE.

WILLIAM BAYLESS, OF BRANTFORD, CANADA.

HONEY-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 476,722, dated June 7, 1892.

Application filed August 17, 1891. Serial No. 402,950. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM BAYLESS, a subject of the Queen of England, residing at the city of Brantford, in the county of Brant and Province of Ontario, Canada, have invented a new and useful Honey-Extractor, of which the following is a specification.

My invention relates to improvements in honey-extractors in which a tank is used to hold the honey. In the tank, centrally located, is a vertical reversible revolving shaft. On this shaft is loosely journaled a frame for the purpose of holding the foraminiferous receptacles in which the honey-comb is placed for the purpose of extracting the honey from the comb. At the bottom, preferably located on the perpendicular reversible shaft, is a hub rigidly fastened to the shaft and having arms extending outwardly from the hub, which have their outer ends turned at right angles to engage in the slits in the bottoms of the foraminiferous receptacles and by which said receptacles are operated.

The object of my invention is to construct a honey-extractor so that when the motion of the perpendicular shaft is reversed the foraminiferous receptacles are all positively simultaneously reversed and held in position at the same time and by the same operation. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the device. Fig. 2 is a vertical section thereof on the line *xx* of Fig. 1.

Similar letters refer to similar parts throughout the two views.

A is a crank fastened to the shaft D by set-screws and by which the machine is operated.

B is the tank in which the honey is caught after being extracted from the comb.

C is the cross-bar fastened centrally in the top of the tank B. Through it the shaft D passes loosely and is held in its proper place at the top end, and at the bottom end it is held by the step N, which is recessed to receive the lower end of the shaft D.

On the shaft D is loosely journaled the frame, composed of the cross-pieces E and F and perpendicular rods G G. The cross-bars

E and F have holes in their outer ends through which the rods G G pass and are riveted, thereby firmly uniting the cross-pieces, as shown in Fig. 2.

On the perpendicular rods G G are sleeved the foraminated receptacles L L at the top and bottom by the brackets *i i*, by which they are held in their proper place. The honey-combs are placed in the foraminated receptacles L L and whirled around with a rapid motion. The honey can easily pass out through the meshes of the wire-cloth. On or near the bottom of the foraminated receptacles L L is a piece of hoop-iron R R, turned down at right angles and then outwardly. In the outward turn is a hole which sleeves on the lower ends of the rods G G. In this piece of hoop-iron R is a slit for the reception of the right-angled turned ends of the spider M, which is rigid on the shaft D.

On the bottom of the foraminated receptacles L L is a cross-piece S, which is a support to the bottom for the purpose of preventing it from spreading, all as plainly shown in Figs. 1 and 2. When the motion of the shaft D is reversed, the position of the receptacles L L is changed by the upwardly-turned ends of the spider M engaging with the slits R R, and said receptacles L are positively held in their reversed position.

O is the flaring bottom of the tank B, on which the honey falls and is discharged out through a hole.

P is a flange or base part of the tank B.

I am aware that prior to my invention honey-extractors have been made with reversible swinging foraminated receptacles. I therefore do not claim such a combination, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. In a honey-extractor, the combination, with the reversible shaft, of cross-pieces loosely mounted on said shaft, rods connecting said cross-pieces, foraminated receptacles journaled on the rods, and means fixedly connected to the shaft for changing the position of the receptacles when the motion of the shaft is reversed, substantially as described.

2. In a honey-extractor, the combination,

with the tank, of a rotary shaft suitably
mounted therein, a frame loosely journaled
on the shaft, foraminated receptacles cen-
trally and pivotally connected to the frame
5 and provided with bottoms having horizontal
slits or passages, and a spider fixedly con-
nected to the shaft and provided with ends
engaging with the slits in the bottom of the
receptacles, substantially as described.

WILLIAM BAYLESS.

Witnesses:

A. E. WATTS,

PETER PURVES.