

(No Model.)

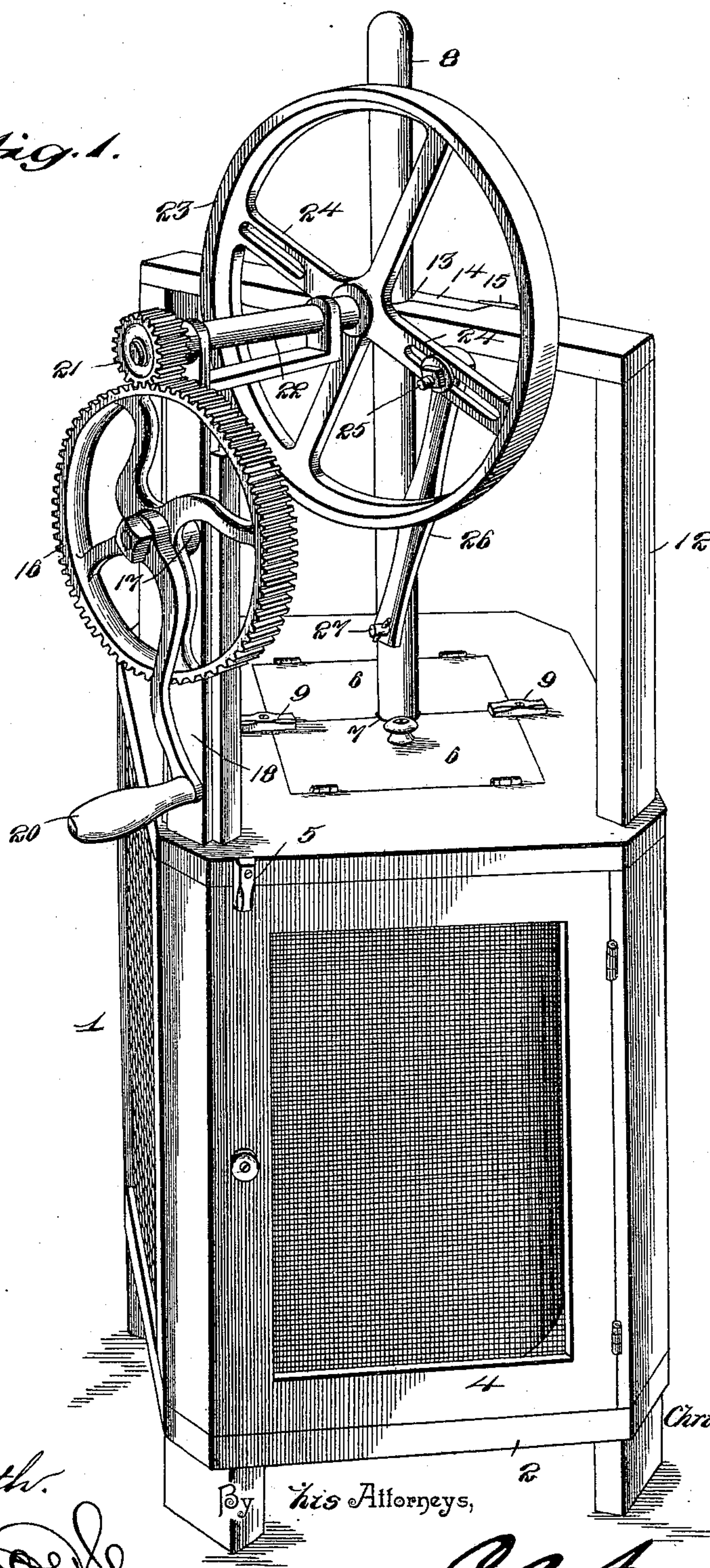
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C. C. TAYLOR.
CHURN.

No. 574,832.

Patented Jan. 5, 1897.

Fig. 1.



Witnesses

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Inventor
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(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

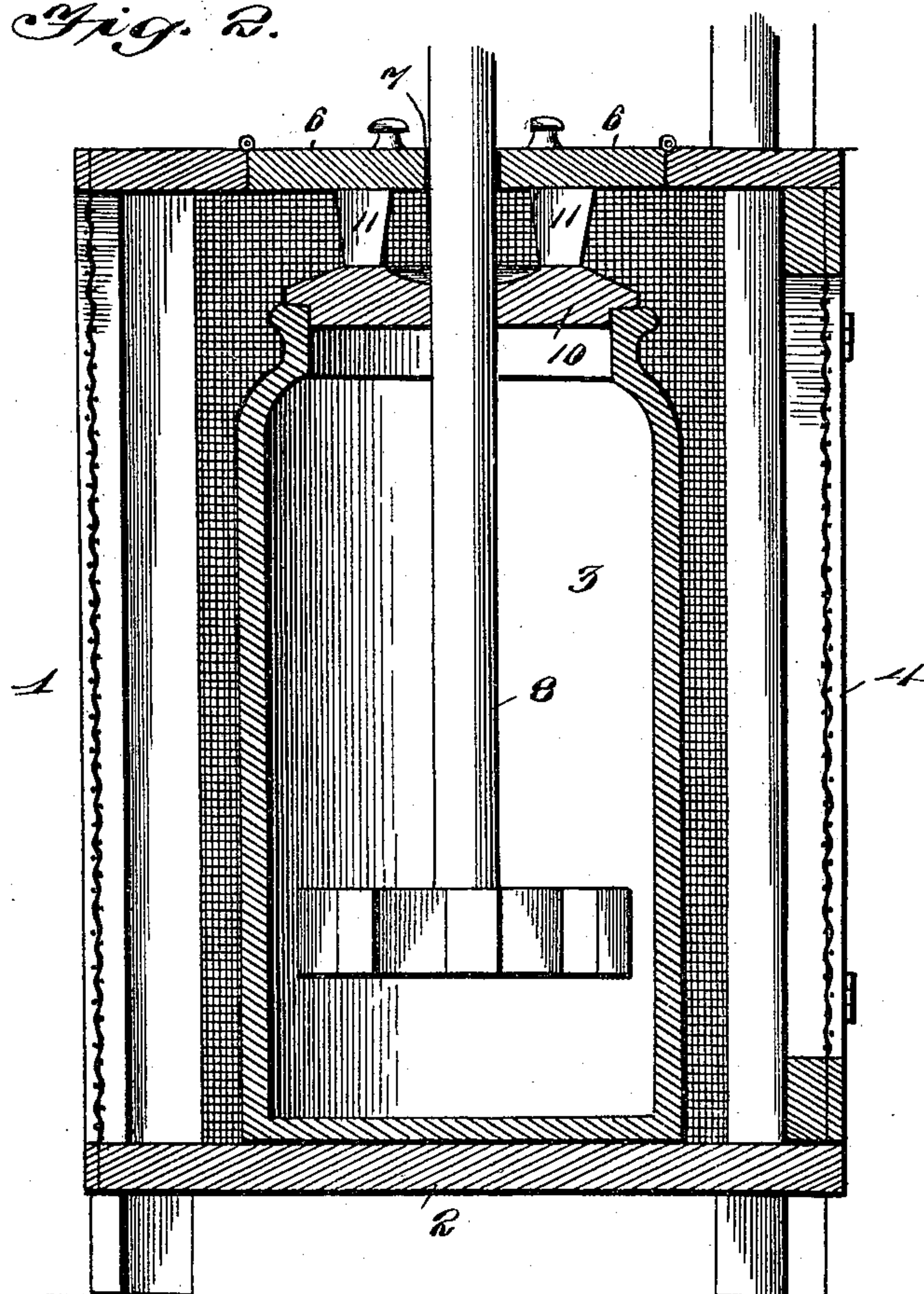
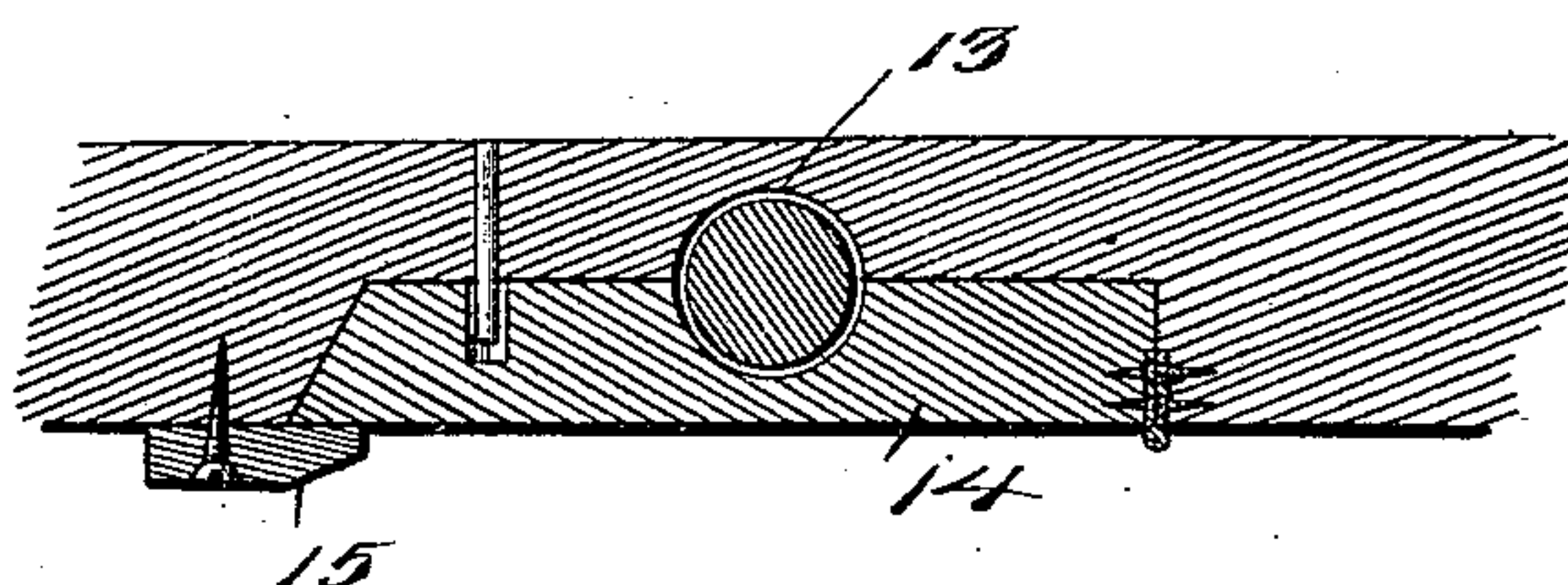


Fig. 3.



Witnesses

Witnesses
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Inventor

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UNITED STATES PATENT OFFICE.

CHRISTOPHER C. TAYLOR, OF ROCKINGHAM, NORTH CAROLINA, ASSIGNOR
OF ONE-HALF TO L. C. SHARP, OF SAME PLACE.

CHURN.

SPECIFICATION forming part of Letters Patent No. 574,832, dated January 5, 1897.

Application filed May 27, 1896. Serial No. 593,306. (No model.)

To all whom it may concern:

Be it known that I, CHRISTOPHER C. TAYLOR, a citizen of the United States, residing at Rockingham, in the county of Richmond and State of North Carolina, have invented a new and useful Churn, of which the following is a specification.

My invention relates to churns, and has for its object to provide a simple, inexpensive, and efficient construction and arrangement of parts, whereby the receptacle is protected from accumulations of dirt, insects, &c.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view of a churn constructed in accordance with my invention. Fig. 2 is a vertical sectional view of the hollow base or cage and contiguous parts. Fig. 3 is a detail view of the means for guiding the dasher-staff above the plane of the base.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The frame of the improved churn is constructed to form a cage or cabinet 1, having a base 2, upon which the receptacle 3 is supported, and a side door 4, through which the receptacle may be introduced and removed, said door being provided with suitable fastening devices, such as a turn-button 5. (Illustrated in the drawings.) The top of the cage or cabinet is provided with an opening fitted with a door or closure comprising twin oppositely-folded leaves 6 and cut away at their meeting edges to form a bearing 7 for the dasher-staff 8 and held in their closed positions by means of fastening devices, such as turn-buttons 9. A receptacle-cover 10 is removably fitted in the top of the churn-receptacle and is provided with a central opening for said dasher-staff, this cover being held in position when the lid in the top of the cage or cabinet is closed by means of holding-blocks 11, depending from the leaves of said lid. Access may be had to the interior of the receptacle by raising the lid-leaves 6 and thereby releasing the receptacle-cover. The sides

of the cage or cabinet are provided with a filling of wire screen or similar reticulated material to allow the circulation of air and exclude insects.

Rising from the top of the cage or cabinet is a bracket 12, having a central bearing 13 for the upper end of the dasher-staff, said bearing being fitted with a hinged closing-block 14, secured in place by means of a turn-button 15 or its equivalent.

The driving-gear 16 is mounted upon a stub-shaft 17, extending horizontally from a standard 18, rising from the top of the cage or cabinet, and said gear, to which is attached the operating-crank 20, meshes with a pinion 21 on the driven shaft 22. Said driven shaft also carries a balance-wheel 23, having slotted spokes 24, upon one of which is mounted an adjustable wrist-pin 25, connected by means of a pitman 26 with a lateral stud 27 on the dasher-staff. Said stud 27 is preferably threaded in a transverse opening in the dasher-staff and is provided with a bearing portion upon which the lower extremity of the pitman is fitted, said extremity of the pitman being held in engagement with the stud by means of a split pin.

The length of stroke of the dasher-staff may be regulated by the adjustment of the wrist-pin upon the slotted spoke of the balance-wheel.

From the above description it will be seen that the means for operating the dasher are simple, and that any desired rapidity of movement may be imparted to the dasher by varying the relative sizes of the driving-gear and pinion. Furthermore, the receptacle is arranged within a cage or cabinet from which insects are excluded, and after the completion of the churning operation the dasher may be disconnected and removed through the opening in the top of the cage or cabinet, after which said opening may be closed until such time as it may be convenient or desirable to remove the receptacle.

From the above it will be seen also that when the churning operation has been completed the receptacle-lid and dasher may be elevated through the opening closed by the leaves 6, forming the closure for the cage or cabinet, after the disconnection of the pitman

from the dasher-staff, said connection being so constructed as to provide for detachment with facility. After the dasher and lid 10 have been withdrawn from the interior of the cage or cabinet the leaves may be again closed to exclude insects, and access may be had at any time to the churn-receptacle through the side door, either to remove such receptacle or its contents. In other words, the sectional cover 10 of the cage or cabinet forms a support for the churn-dasher when the latter is withdrawn from the cage after the completion of the churning operation.

Various changes in the form, proportion, 15 and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I 20 claim is—

In a churn, the combination of a frame

constructed to form a cage or cabinet adapted to receive the churn-receptacle, said cage or cabinet having reticulated walls, a side door through which the receptacle may be intro- 25 duced and removed, and a top lid having oppositely-mounted leaves provided with depending holding-blocks to engage and secure the cover of the churn-receptacle, means for fastening said lid in its closed position, a 30 churn-dasher having its staff mounted in half-bearings formed in the meeting edges of the leaves of said top lid, and operating devices for the dasher, substantially as specified.

In testimony that I claim the foregoing as 35 my own I have hereto affixed my signature in the presence of two witnesses.

CHRISTOPHER C. TAYLOR.

Witnesses:

WALTER L. PARSONS,
W. E. THOMAS.