

(No Model.)

J. A. ASHER.  
CHURN.

No. 572,146.

Patented Dec. 1, 1896.

Fig. 1.

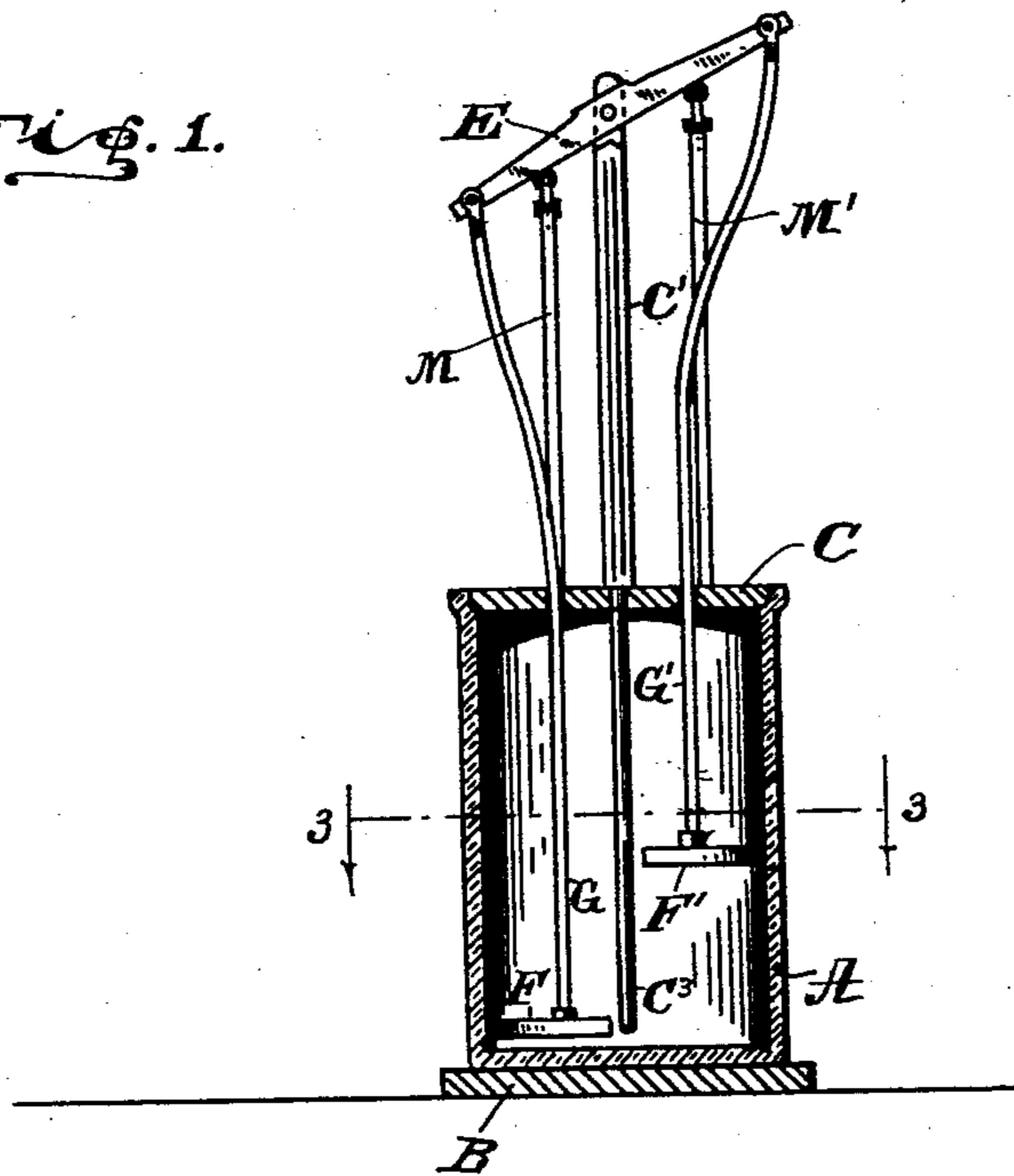


Fig. 2.

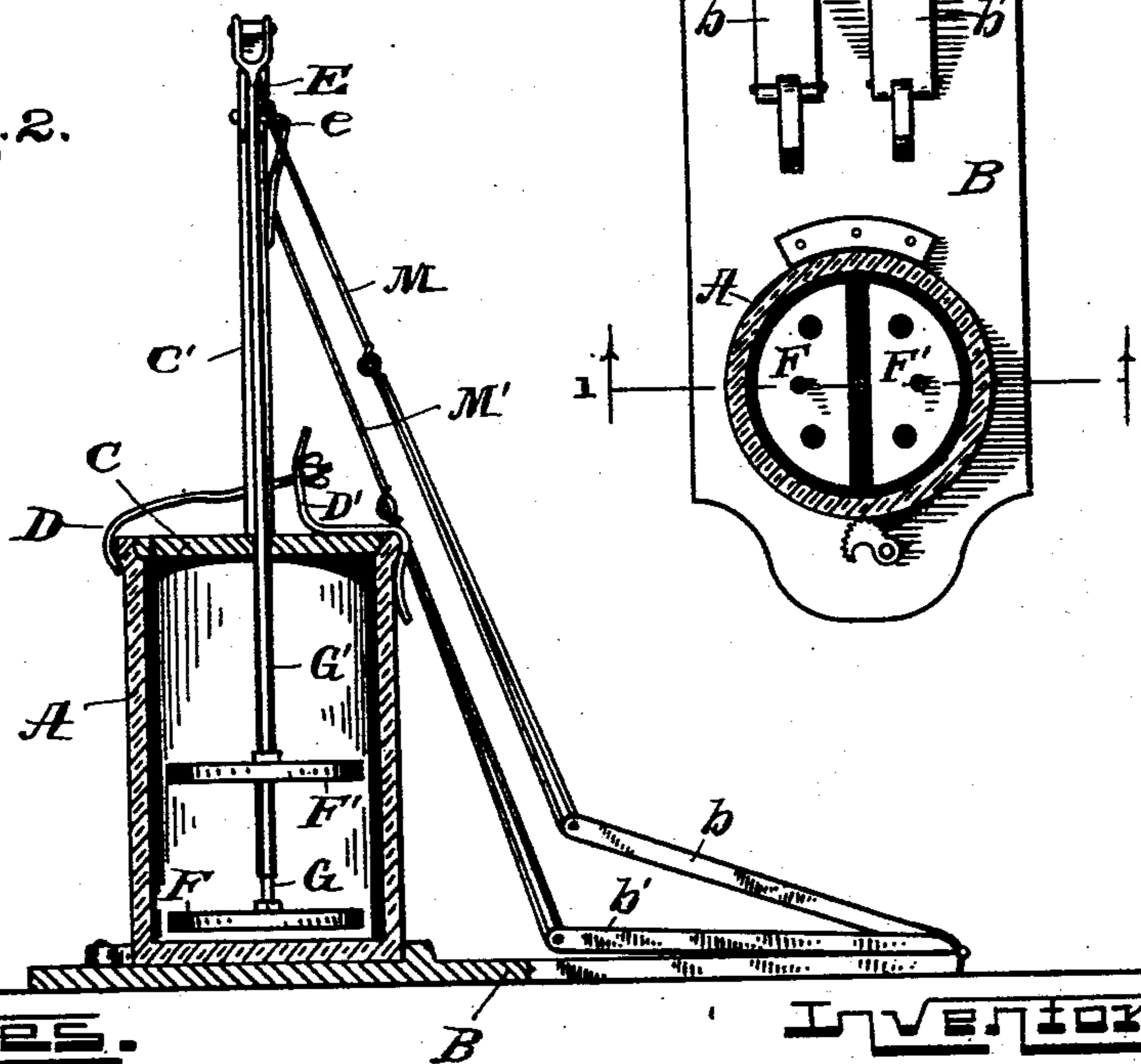
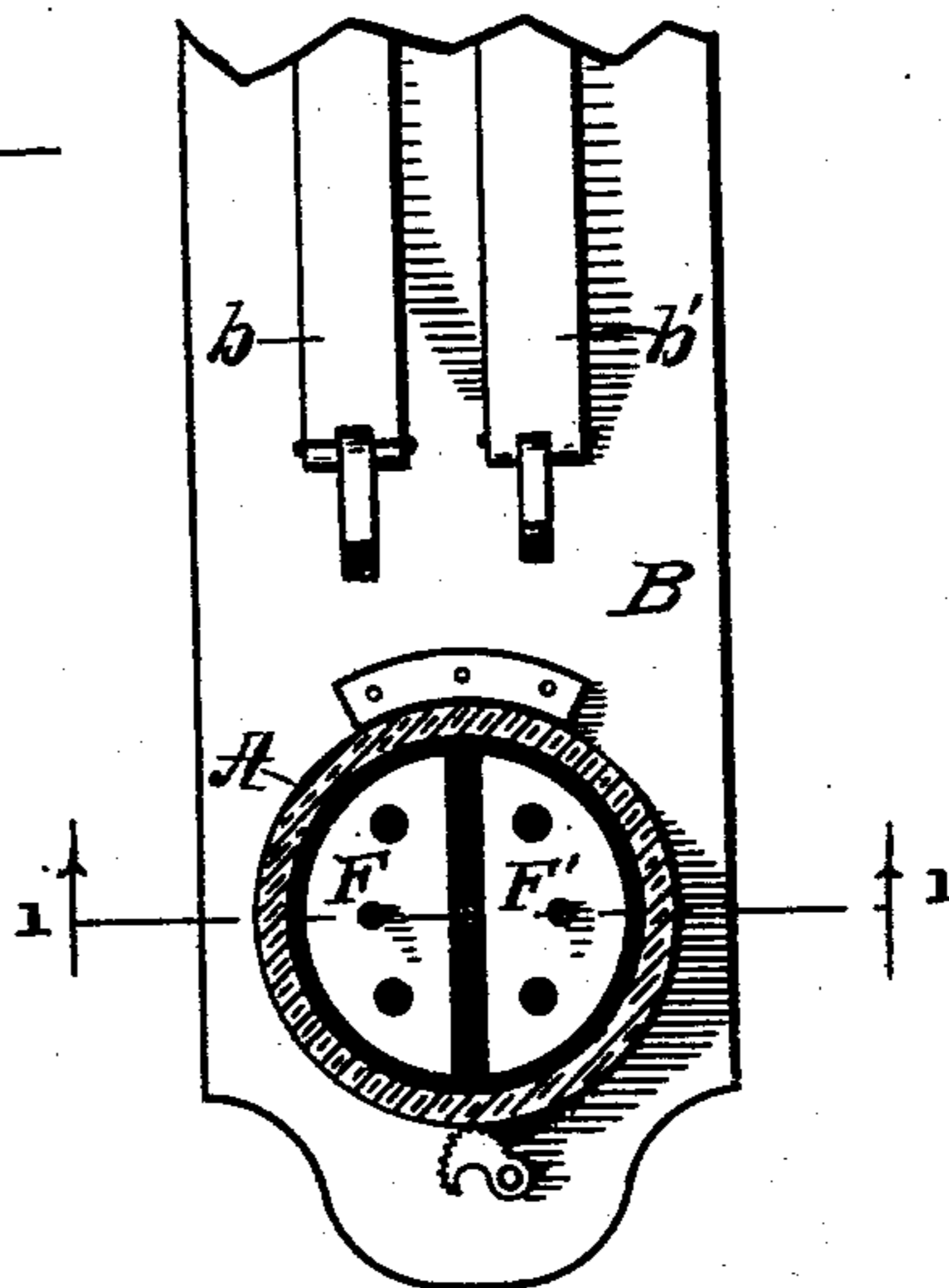


Fig. 3.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

JOHN ALVEN ASHER, OF GREENCASTLE, INDIANA.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 572,146, dated December 1, 1896.

Application filed June 3, 1895. Serial No. 551,513. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN ALVEN ASHER, a citizen of the United States, residing at Greencastle, in the county of Putnam and State of Indiana, have invented certain new and useful Improvements in Churns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in churns for making butter on a scale as ordinarily practiced by farmers and private families, and has for its objects the construction of a device whereby the cream can be agitated by means of a dasher, but at a greatly-increased speed as compared with the common form of dasher-churns and with much less exertion and fatigue to the operator.

The object, further, is to provide a construction that can be manufactured at small expense by any person having only ordinary skill in handling mechanics' tools and that will be easy to operate and free from liability to get out of order.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section on the line 1 1, Fig. 3, looking in the direction of the arrow; Fig. 2, a vertical section longitudinally of the base or platform on which the churn rests; and Fig. 3 is a detail in plan view, partially in section, of my improved mechanism.

Similar letters of reference refer to like parts throughout the several views of the drawings.

A represents the churn or vessel to contain the cream, here shown as a stone jar, but which may be of any convenient form or material.

B is a board forming the base, upon which the churn is placed and to which the pedals *b* and *b'* are hinged, as shown in Fig. 2.

C is the lid of the churn, and C' is a vertical standard secured to the center of the churn-lid and extended a suitable distance above the lid.

D is a metal rod having a hook on its outer end to engage the flanged top of the churn. The opposite end of the rod is projected through the standard C' and is extended a suitable distance on the opposite side of same.

D' is a metal bar bent, as shown in Fig. 2, to form a clamp which will engage the flange at the top of the churn. The upper end of the clamp will be provided with an opening through which the rod D is projected. A nut on the threaded end of the rod enables the rod and clamp to be drawn close against the churn, whereby the lid will be securely attached.

E is a reciprocating bar or walking-beam pivotally secured at a point midway between its ends to the top of the standard C'. For convenience in removing the bar E the pin *e*, forming the pivot, will be integral with a spring portion, which latter will be secured to the standard in a manner that will allow the pin *e* to be withdrawn to permit the removal of the bar E, but will not be wholly detached from the standard. This will prevent the displacement and accidental loss of the pin, and also the spring will hold the pin firmly in place without any other fastening being required.

F and F' are dashers, consisting of half-round disks perforated in the usual manner to allow the cream to be more thoroughly agitated by being forced through the said openings.

G and G' are rods connecting the dashers with the outer ends of the reciprocating bar E, so that when the bar E is reciprocated the dashers will be alternately raised and lowered within the churn. To prevent conflict of the dashers in passing each other, the standard C' will be continued down to near the bottom of the churn, as shown at C<sup>3</sup> in Fig. 1.

I will now describe my mechanism for actuating the reciprocating bar E. I have before alluded to the pedals *b* and *b'*. These are hinged at their outer ends to the base B and have their inner ends connected with the reciprocating bar E by means of the leather straps M and M'. Other than leather straps to form a connection between the pedals and the bar E might be used, but I prefer leather straps on account of their strength and flexibility and also because of their ready acquirement at any store throughout the country dealing in harness. The upper ends of the straps will terminate with snap-hooks, which will be caught into eyelets, (such as are commonly used for attaching picture-cords to

frames,) and the lower ends of the straps will be doubled upon themselves and the ends terminated with buckles, by which the return end of the strap will be adjustably fastened to the body portion in the manner as clearly shown in the drawings. By working the pedals with the feet the reciprocating bar E will be actuated and the dashers made to rise and fall in the cream inside of the churn. The drawings illustrate the construction so clearly and the mode of operation is so simple that further description is deemed unnecessary.

What I claim as new, and wish to secure by Letters Patent of the United States, is—

1. In a churn the combination of the body having a rim or flange at its top, with a lid having a central opening, and openings on two opposite sides of the central opening for the dasher-rods, a standard projected through the central opening having an upwardly-extending outside portion of increased diameter forming a shoulder to rest against the lid, and a device for clamping the standard to the lid and the lid to the churn substantially as described.

2. In a churn the combination of the body having a rim or flange at its top, with a lid having a central opening, and openings on

two opposite sides of the central opening for the dasher-rods, a standard projected through the central opening and extended into the churn to near the bottom thereof and having an upwardly-projecting outside portion of increased diameter forming a shoulder to rest upon said lid, and a device for clamping the standard and lid to the churn, consisting of a bolt projected through an opening in the standard and terminating at its outer end with a hook to engage the rim of the churn, and having its opposite end threaded, a metal bar its outer end bent to engage the rim of the churn at the opposite side from that engaged by the hook on the bolt, and its inner end turned upwardly and provided with an opening through which the threaded end of the bolt is passed, the said bolt being provided with a nut at its free end whereby the bar and bolt may be drawn tight against the churn-cover thereby clamping the standard to the lid and the lid to the churn-body substantially as described and claimed.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN ALVEN ASHER.

Witnesses:

JOSEPH A. MINTURN,  
F. W. WOERNER.