

(No Model.)

J. H. BURCK.

CHURN.

No. 297,109.

Patented Apr. 22, 1884.

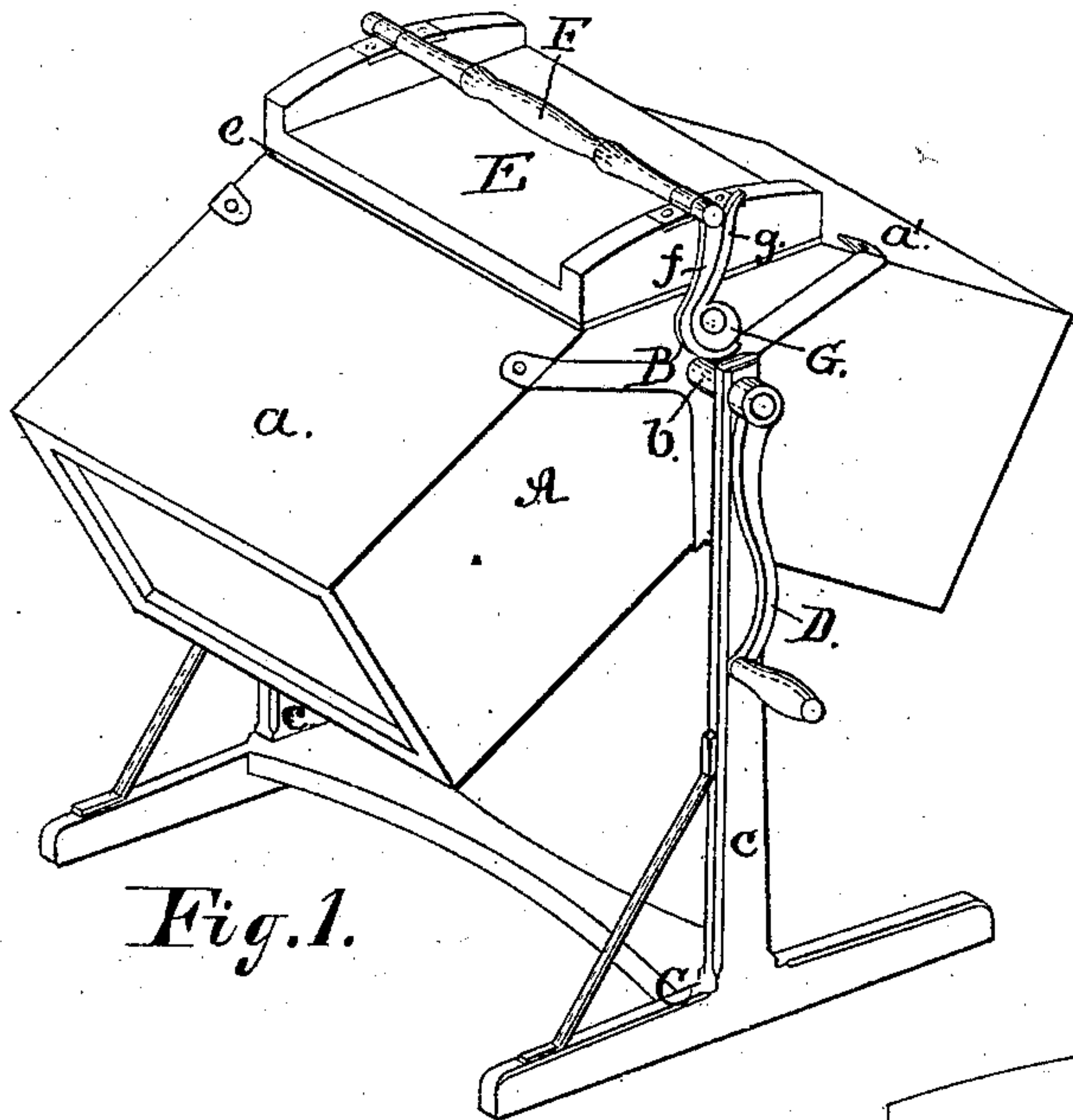


Fig. 1.

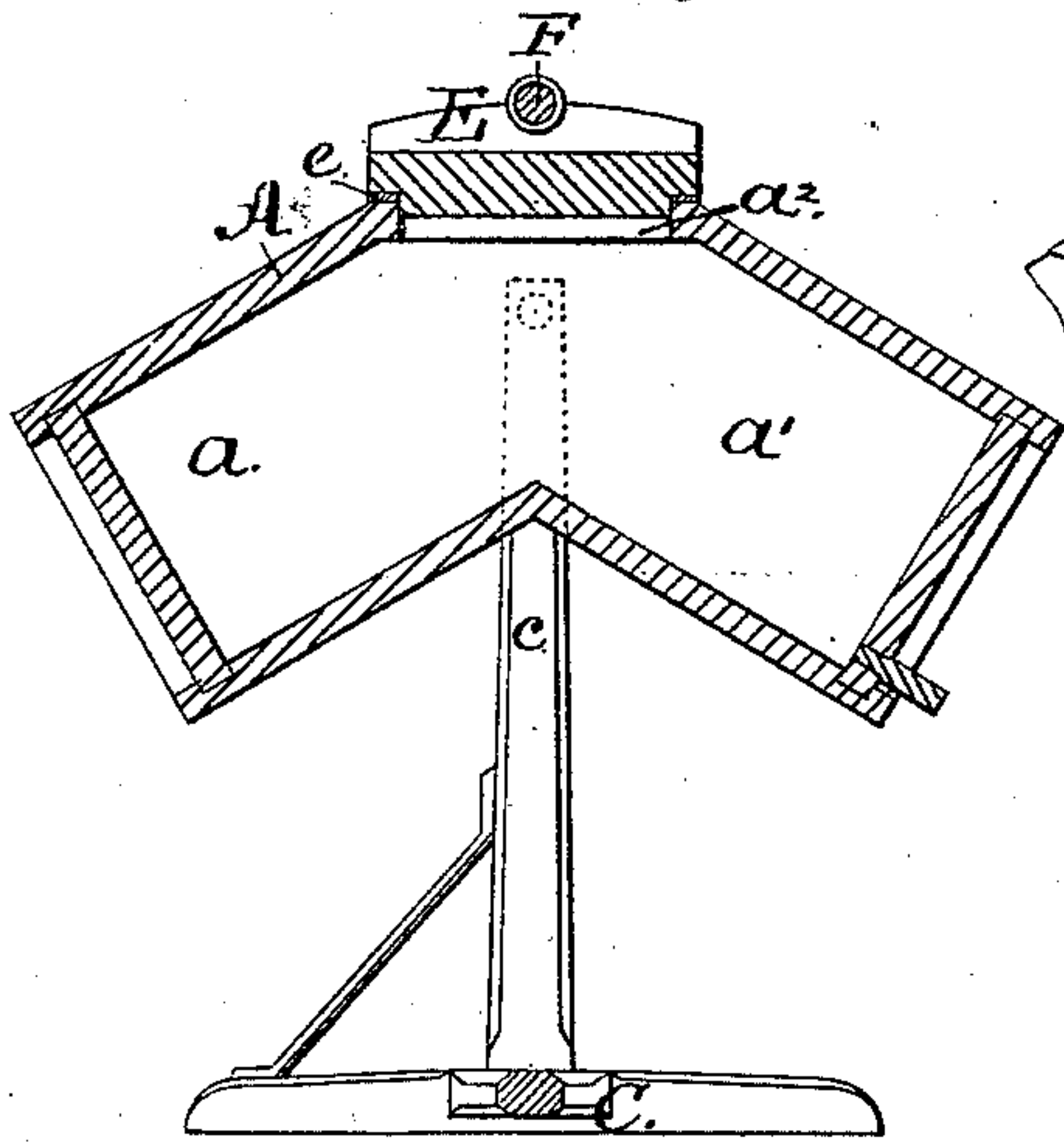


Fig. 2.

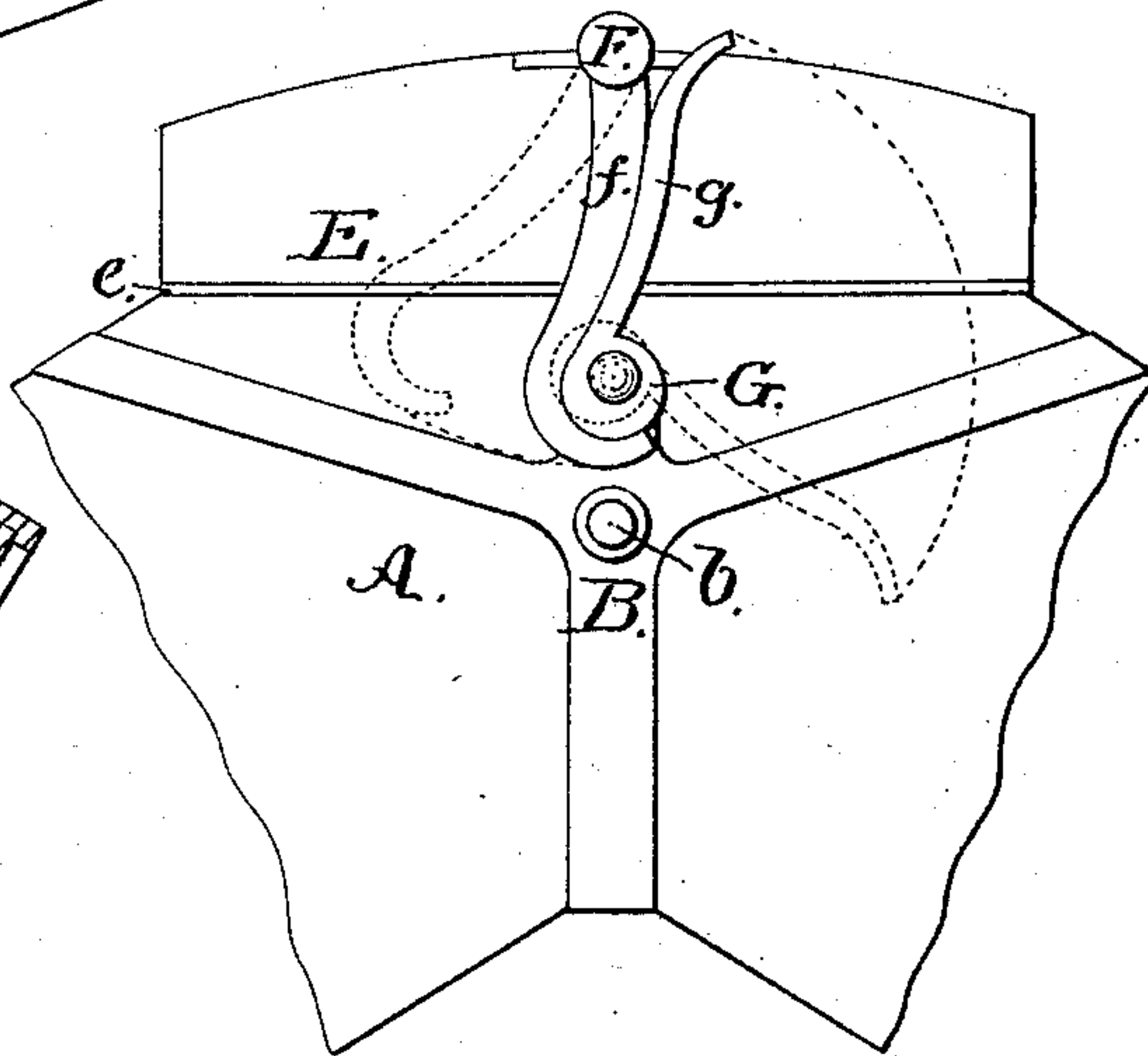


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN H. BURCK, OF NORTH HOOSICK, ASSIGNOR OF ONE-HALF TO HENRY J. GROSE, OF ALBANY, NEW YORK.

CHURN.

SPECIFICATION forming part of Letters Patent No. 297,109, dated April 22, 1884.

Application filed May 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. BURCK, of North Hoosick, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Churns, of which the following is a specification.

In the accompanying drawings, which form part of this specification, and to which reference is made herein, Figure 1 is a perspective view of an oscillating churn; Fig. 2, a longitudinal section of the same, and Fig. 3 a detached detail, showing the construction of the device for securing the cover in place.

As shown in the drawings, A is the body or cream-holding receptacle of the churn. The said body constitutes the cream-chamber, which consists of two wings, *a* and *a'*, arranged at an angle to each other, which angle I preferably make a little over ninety degrees, so as to leave an unobstructed passage between them. At the apex of the angle the body A is leveled off to form the opening *a*², through which access is obtained to the interior of the churn.

Spiders B are attached to the opposite sides of the body A, near the point of intersection of the center lines of the wings *a* and *a'*. Each of said spiders has projecting therefrom a trunnion, *b*. Both of said trunnions range on the same line and form the center upon which the body A is oscillated.

The frame-work C is provided with uprights *c*, and in the upper ends of the latter bearings are formed for receiving the trunnions *b*. The said frame-work constitutes a support for the body A during the operation of churning.

The crank D is secured to the outer end of

one of the trunnions *b*, for the purpose of imparting the required oscillatory motion to the body A.

The bonnet or cover E closes over the opening *a*² in the body A, and is provided with a packing, *e*, which is fixed beneath the under side of its flange for the purpose of forming a tight joint with the body A. A transverse shaft, F, is fixed on the upper side of said bonnet, and has the hooks *f* secured to its opposite ends. Said hooks are adapted to engage with eccentrics G, which are pivoted to the sides of the body A and are provided with operating-levers *g*. When the hooks *f* are engaged on the eccentrics G, the latter can be turned on their pivotal centers by means of the levers *g*, and by so doing the hooks *f* will be drawn downward to clamp the bonnet E closely and securely over the opening *a*².

When preferred, a lever extending from one or both sides of one of the trunnions *b* may be substituted for the crank D for the purpose of imparting an oscillatory motion to the churn.

I claim as my invention—

In a churn, the combination, with a cream-holding receptacle provided with eccentrics G, as herein described, of the cover E, provided with a shaft, F, having pendent hooks *f*, adapted to engage with the eccentrics G and secure said cover in place, as herein specified.

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Witnesses:

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