

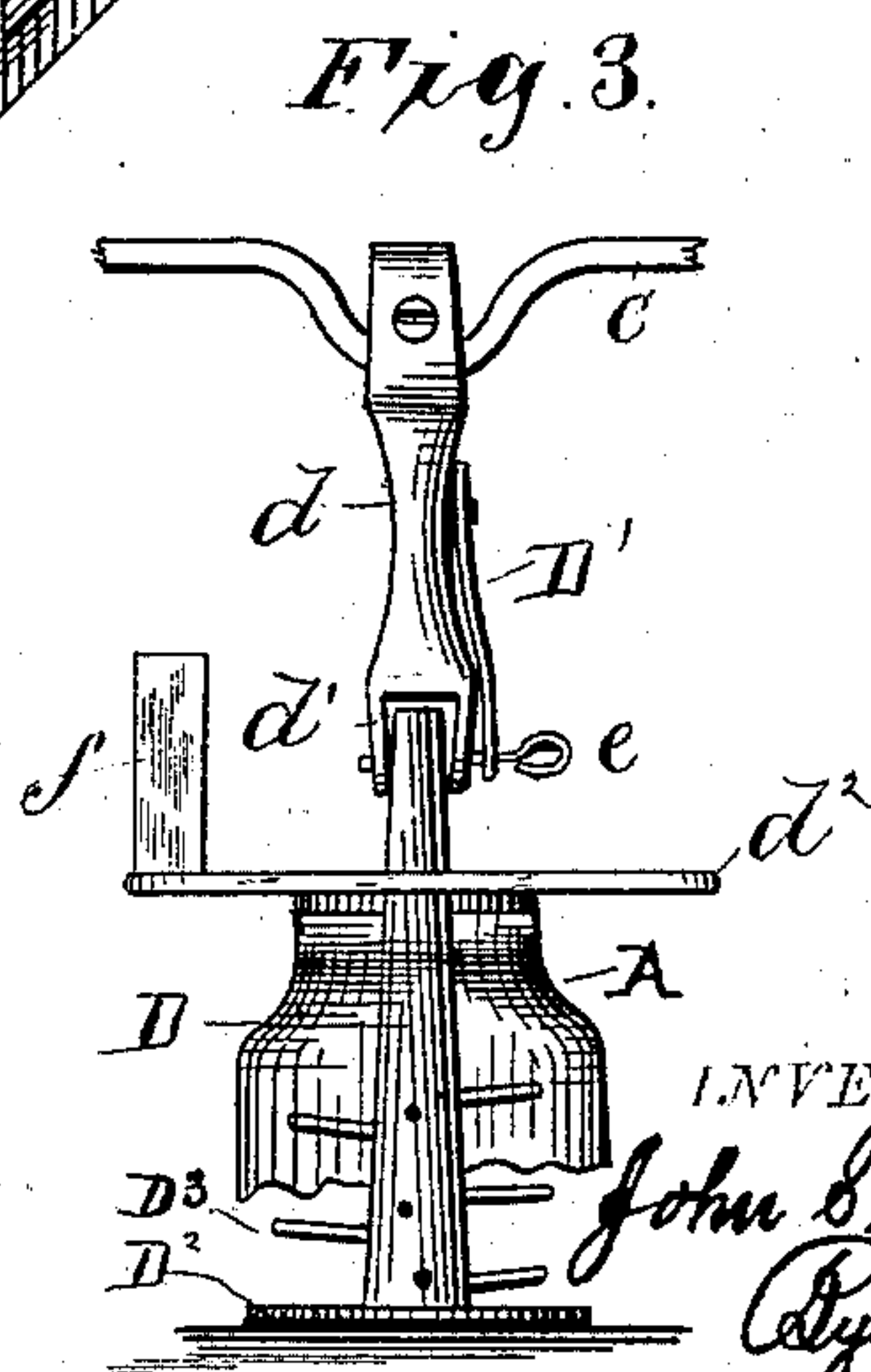
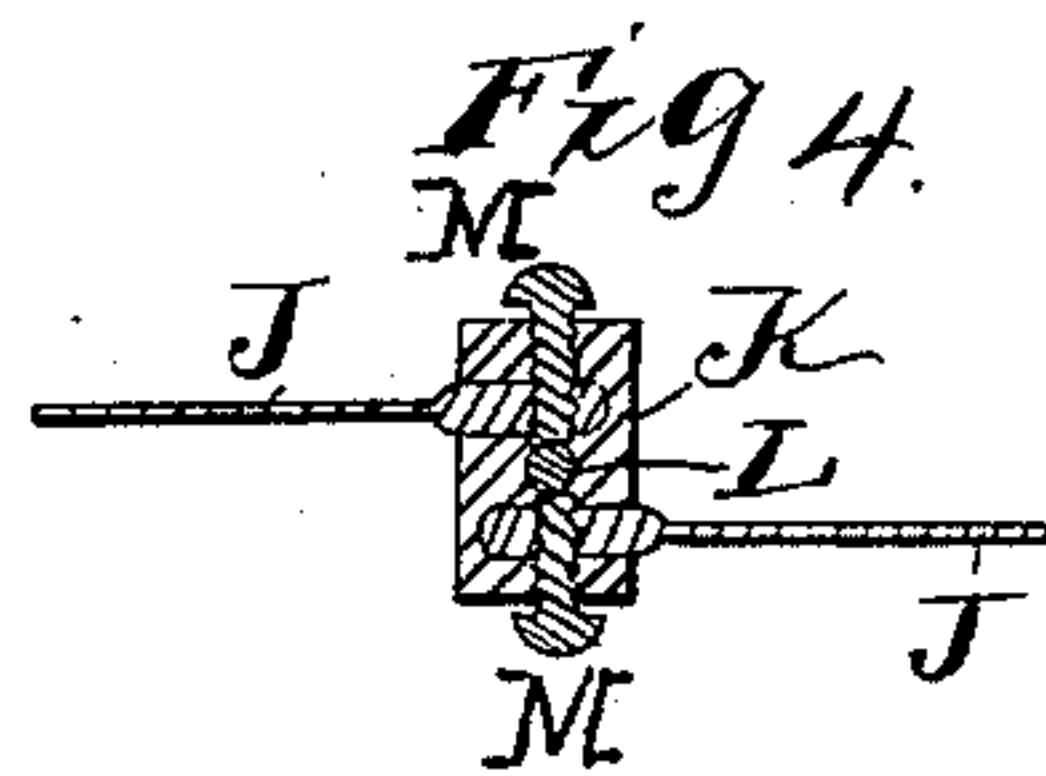
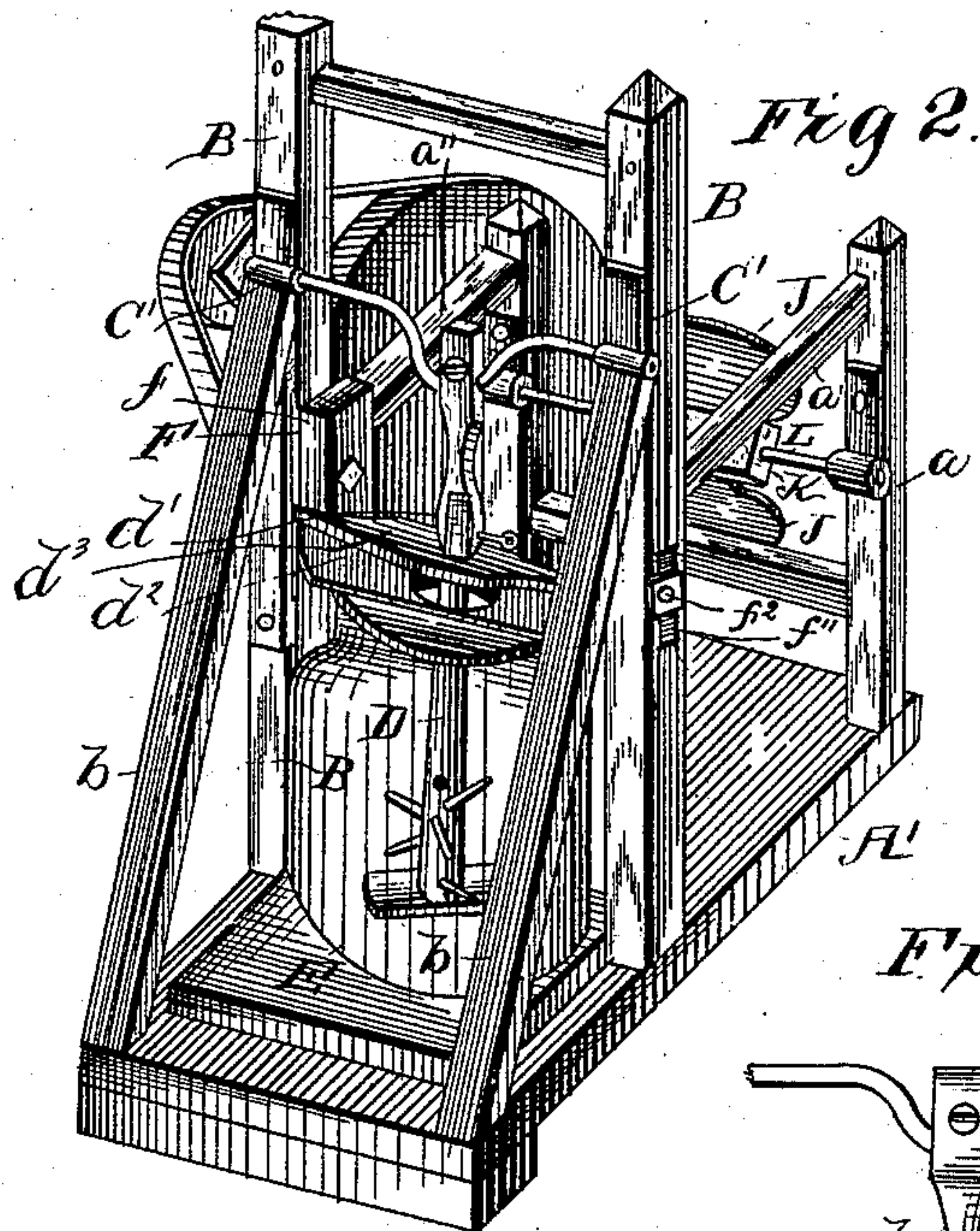
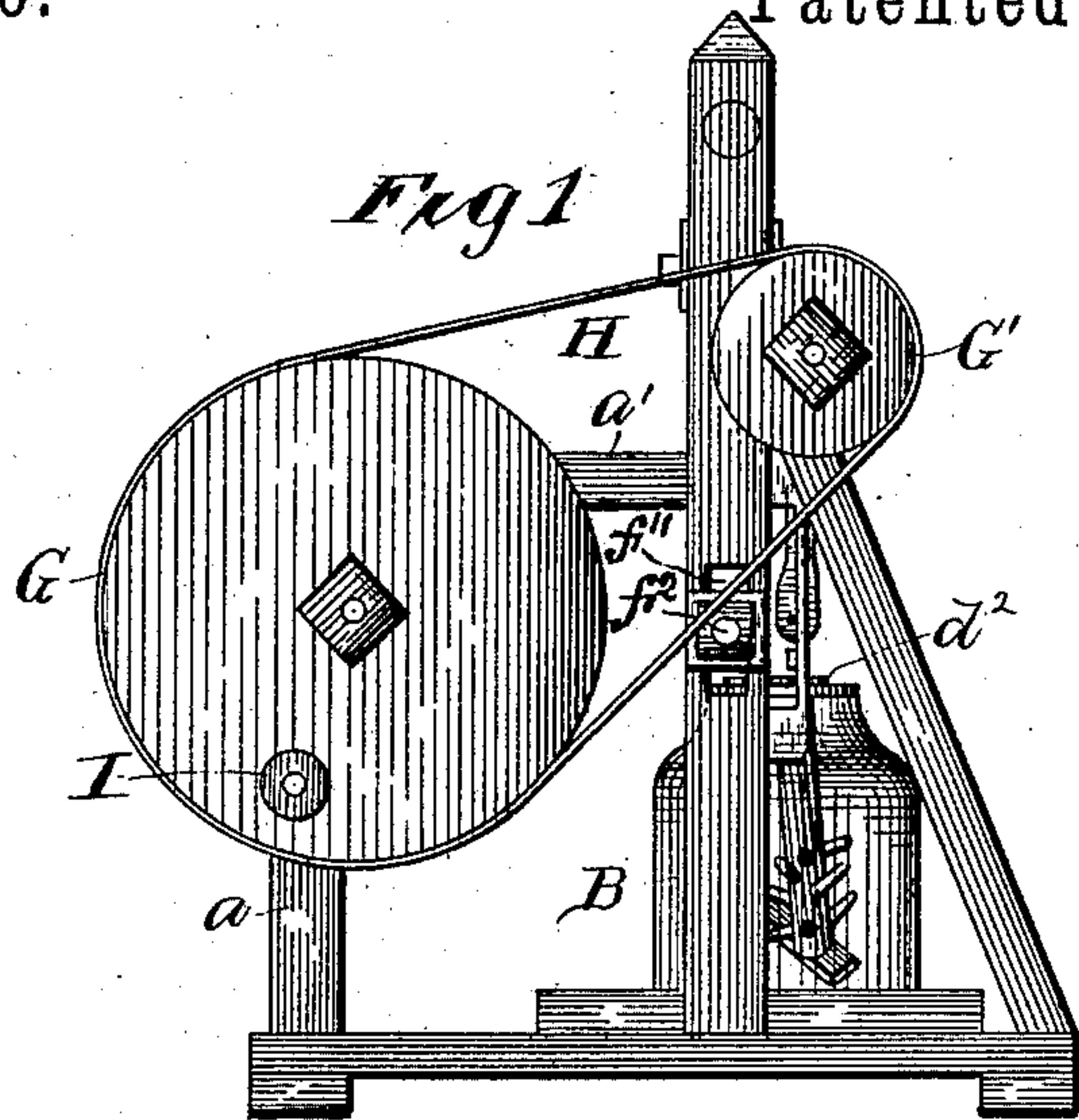
(Model.)

J. S. THOMPSON.

CHURN.

No. 302,300.

Patented July 22, 1884.



WITNESSES

W. E. Bowen.
W. M. Rheem.

INVENTOR

John S. Thompson
By *Myers & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN S. THOMPSON, OF CONYERS, GEORGIA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 302,300, dated July 22, 1884.

Application filed November 24, 1883. (Model.)

To all whom it may concern:

Be it known that I, JOHN S. THOMPSON, a citizen of the United States of America, residing at Conyers, in the county of Rockdale and State of Georgia, have invented certain new and useful Improvements in Churns, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improvement in churns; and it consists in a churn having a series of fans on the axle of its driving-wheel, a vertical dasher removably secured to a crank operated by a driving-wheel, in connection with a belt and pulley, and in the combination and arrangement of the parts, substantially as hereinafter more fully shown and described.

In the accompanying drawings, Figure 1 is a side elevation. Fig. 2 is a view in perspective, and Figs. 3 and 4 are detail views of the churn.

In the construction of my churn I rigidly secure to the platform A' the driving-wheel standards *a a*, having brace-bars *a' a''*, the brace-bars *a' a''* being tenoned in the dasher-standards B, which standards are held in a vertical position by the inclined brace-bars *b*. The crank C, whose bearings are in the hinge-sockets C' C', has pivoted to its center, as shown, the pitman *d*, the crank being projected through a horizontal orifice provided near the top of the pitman. The inclined bars *b* are arranged to fit at the upper ends immediately beneath the sockets C' C', and thus support said sockets while bracing the dasher-standards B in a vertical position. The pitman *d* is slotted at *d'*, and in this slot is jointed the dasher D. The vertical plate D' is rigidly secured to pitman *d*, and has an orifice therein for reception of the pivoted pin *e*, which is designed to hinge together pitman *d* and the churn-dasher D, and hence, when it is designed to remove the churn from its socket E on platform A', the pin *e* is withdrawn, the pitman *d* pushed aside, the horizontal guide-bar *d³* is then elevated in the guide-recesses F of standards B, and thus removed from the churn-dasher, and the lid-holder *d²* slipped from beneath the lid-studs *f*, which studs hold the lid securely clamped upon the top of the churn A, by sliding the lid-holder *d²* around from beneath the studs. The studs *f*, of which there is one secured to

either post B, are held in position by means of the nutted screws *f²*, which project through their center and the vertical slot *f''*, and thus the studs holding the cover are rendered adjustable to the height of the churn. The cover of the churn is thus rendered removable preliminary to the removal of the churn from the socket E on the platform A'.

The driving-wheel G is connected with crank-pulley G' by means of belt H, and the churn is actuated by means of the crank-handle I of the driving-wheel. The handles of the fans J are rigidly secured in the rectangular block K by means of the thumb-screws M, as shown in Fig. 4, and the block K is removably secured to axle L of the driving-wheel by means of the said thumb-screws M, which are screwed against the axle L, in order that the fan or series of fans may be removed when it is unnecessary or unseasonable to drive off flies from the top of the churn or to fan the person operating it.

The dasher D, which is articulated to pitman *d* as aforesaid, is provided at bottom with a flat and nearly rectangular dasher-block, D², rigidly secured thereto, and above it with a series of alternating bars, D³, one above another, radiating from the main or vertical shaft of the dasher.

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

1. In a churn, the combination of the dasher D, having block D² and alternating bars D³, vertical plate D', pin *e*, crank C, horizontal guide-bar *d³*, removably secured in guide-recesses F, lid-holder *d²*, lid-studs *f*, and the actuating mechanism, substantially as shown, and for the purpose described.

2. In a churn, the combination of the platform A', having socket E, dasher D, lid-holder *d²*, secured by studs *f*, and nutted screws *f²*, projected across vertical slots *f''*, horizontal guide-bar *d³*, adjustable in recesses F of standards B, plate D', pin *e*, pitman *d*, and the actuating mechanism, substantially as shown and described.

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

JOHN S. THOMPSON.

Witnesses:

B. H. SUMMERS,
J. J. LANGFORD.