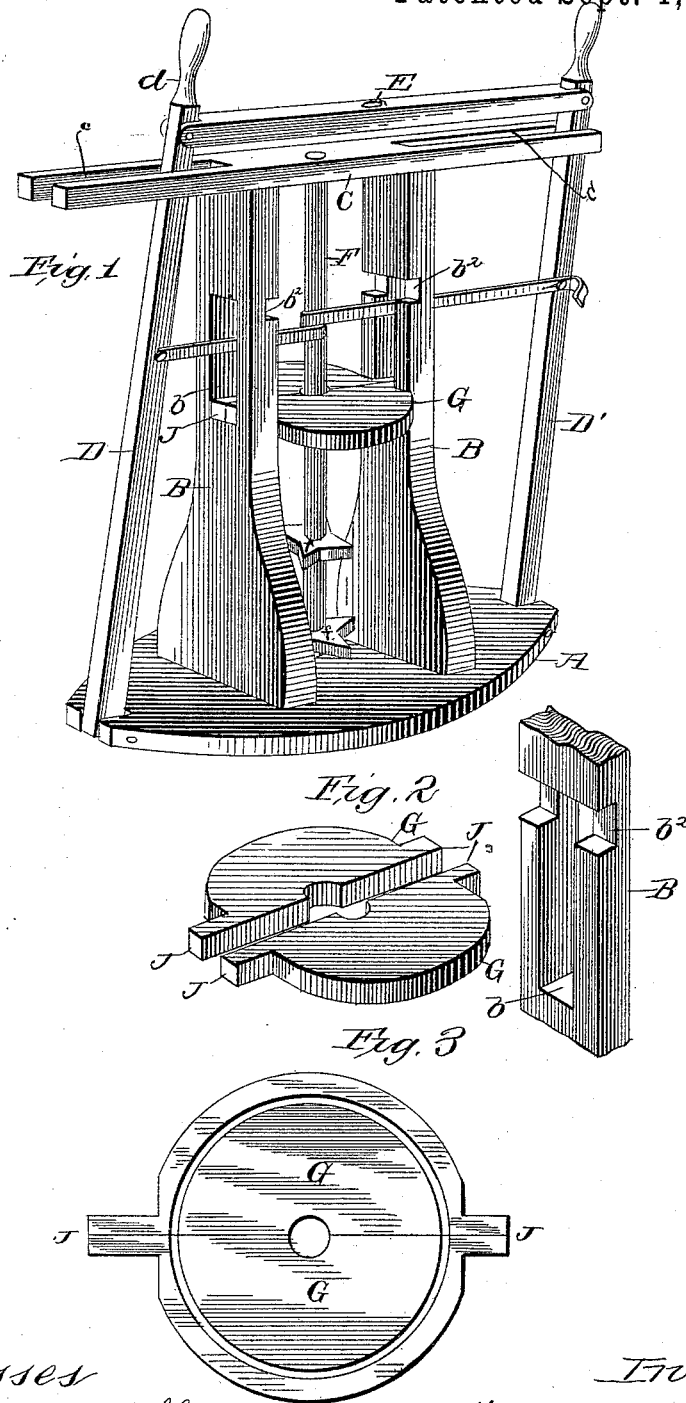


(No Model.)

W. H. HAWKS & G. PEOPLES.
CHURN.

No. 458,693.

Patented Sept. 1, 1891.



Witnesses
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UNITED STATES PATENT OFFICE

WILLIAM HENRY HAWKS AND GEORGE PEOPLES, OF DRESDEN, TENNESSEE;
SAID PEOPLES ASSIGNOR TO THOMAS WINCHESTER PALMER.

CHURN.

SPECIFICATION forming part of Letters Patent No. 458,693, dated September 1, 1891.

Application filed February 26, 1891. Serial No. 383,298. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM HENRY HAWKS and GEORGE PEOPLES, citizens of the United States, residing at Dresden, in the county of Weakley and State of Tennessee, have invented certain new and useful Improvements in Churn and Drill Powers; and we 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.

Our invention relates to an improvement in churns; and it consists in the construction and arrangement of parts hereinafter described and claimed.

The object of our invention is to provide a simple and effective means for operating the dashers of churns, and which may be also used for other purposes, such as drilling, &c. We obtain this object by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a perspective view. Fig. 2 is a detail view of the cover and its supports. Fig. 3 is a plan view of the cover.

In the drawings, A represents the base; B, two parallel standards which support a cross-bar or guide C, formed with bifurcations or slots *c*.

D D' represent two upright levers pivoted at their lower ends to the base A and extending up and through the bifurcations in the bar C. On the top of lever D is formed a handle *d*. The tops of the levers D D' are united by a pivoted link *e* or cross-bar E, which holds the levers parallel and permits their side movement. The link is connected to the levers D D' below the handle.

The standards B are slotted, as at *b*, in their sides, and have lateral grooves *b*² formed in their inner faces leading into the upper ends of the slots.

F represents the dasher, having cylindrical upper end and blades *f* on its lower end. The upper end of the dasher is extended through an opening in the cross-bar C, and its central portion rests between two semicircular disks or covers G. To rotate the dasher, a flexible strap or cord H is attached to the levers D D', and wound around the cylindrical portion of the dasher intermediate the cover and cross-bar, so that the movement of the levers rotates the dasher.

To permit of an adjustment and removal of the covers, we form on the inner adjacent ends of each half rectangular tongues J, the combined width of which equals the width of the slots in the standards. The tongues on one side are preferably longer than those on the other side. To remove the cover, one of the parts is lifted from the bottom of the slots, where they normally rest, and raised until the tongues are opposite the channels. The cover is then forced into one of the channels, bringing the short tongue out of the slot, and by a side movement the same is removed from between the standards. When the churn is to be placed in position, the dasher is raised, its upper end passing through an aperture in the connecting-link, thereby allowing the churn to be placed beneath the same. We may, as shown, hinge the cross-piece C to one of the standards and secure it to the other standard by a suitable hook. By raising the cross-bar the end of the dasher is released and may be removed.

In use our invention may be applied to a drill or other device requiring a reciprocating rotary movement. This may be effected by substituting a mandrel or holder for the dasher.

We are aware that many minor changes in the construction and arrangement of the parts of our device can be made and substituted for those herein shown and described without in the least departing from the nature and principle of our invention.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

5 In a churn, the combination, with the standards having slots therein and channels in their inner faces leading into the slots, of a cover formed of two semicircular disks having tongues on their adjacent ends, the combined width of which equals the width of the
10 slots, and a dasher passing through the cover, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM HENRY HAWKS.

GEORGE ^{his} + PEOPLES.
mark

Witnesses:

JOHN H. EAVES,
J. B. WESTBROOK.