

J. B. HOLLINGSWORTH.  
CHURN.

APPLICATION FILED MAY 28, 1912.

1,065,806.

Patented June 24, 1913.

Fig. 1.

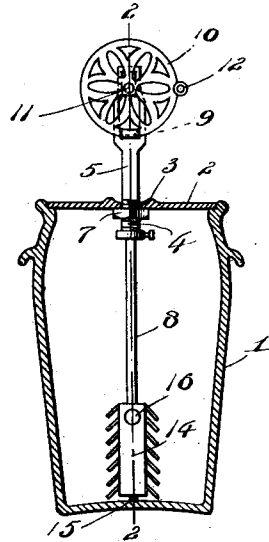


Fig. 2.

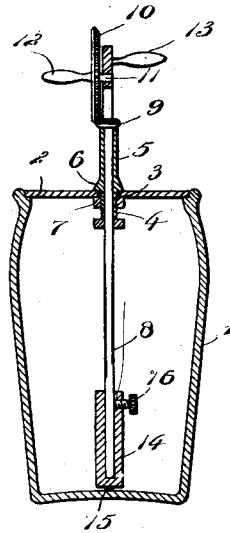


Fig. 3.

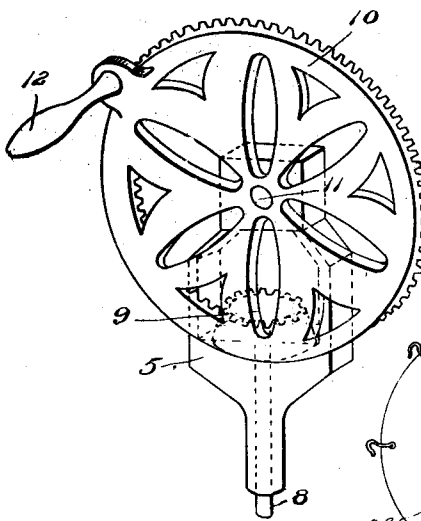


Fig. 4.

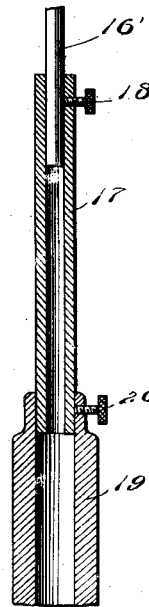
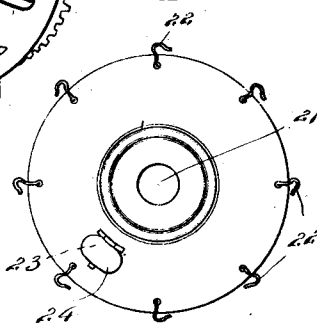


Fig. 5.



Inventor  
John B. Hollingsworth

Witnesses  
C. E. Kumpfer,  
James Korah

By Victor J. Evans

Attorney

# UNITED STATES PATENT OFFICE.

JOHN B. HOLLINGSWORTH, OF WATERS, ARKANSAS, ASSIGNOR OF ONE-FOURTH TO  
GEORGE REYNOLDS AND JOHNIE REED, BOTH OF WATERS, ARKANSAS.

CHURN.

1,065,806.

Specification of Letters Patent.

Patented June 24, 1913.

Application filed May 28, 1912. Serial No. 700,298.

*To all whom it may concern:*

Be it known that I, JOHN B. HOLLINGSWORTH, a citizen of the United States, residing at Waters, in the county of Montgomery and State of Arkansas, have invented new and useful Improvements in Churns, of which the following is a specification.

This invention relates to churns.

An object of the invention is to provide a churn attachment which may be readily applied to or removed from any standard form of churn body or receptacle and which will be strong and durable in construction and inexpensive to manufacture.

Another object of the invention is to provide a churn attachment wherein the dasher shaft will be adjustable to accommodate itself to churn bodies or receptacles of different depths.

In the drawing forming a portion of this application and in which like letters of reference indicate similar parts in the several views:—Figure 1 is a vertical section through the churn showing parts in elevation. Fig. 2 is a section on line 2—2 of Fig. 1. Fig. 3 is a perspective view of the bearing member. Fig. 4 is a section through a portion of the dasher shaft showing a slightly modified form of the invention. Fig. 5 is a top plan view of a slightly modified form of cover.

The churn comprises a jar or like receptacle 1 which is provided with a removable lid or closure 2 which has formed therein a vertical passage 3 through which the lower exteriorly threaded end 4 of a bearing bracket 5 extends. This bracket is disposed vertically upon the closure 2 and immediately above its threaded portion 4 it is provided with a relatively broad downwardly and outwardly extended shoulder 6 which bears against the top of the closure as clearly shown in Fig. 2. A clamping nut 7 is adjustably mounted upon the threaded depending portion 4 of the bearing bracket and it is adapted to engage against the under side of the closure so as to hold the latter and the bracket securely connected together.

A dasher shaft 8 extends through the bearing bracket and secured to the upper end of

the shaft is a driven gear wheel 9 which meshes with a relatively large driving gear wheel 10. This driving wheel is journaled as at 11 upon the bearing bracket and at 12 the wheel has fixed thereto a crank handle whereby the wheel can be readily rotated manually and power transmitted to the dasher shaft.

At the upper end the bearing bracket 5 supports a laterally extending fixed handle 13 which may be engaged by one hand of the operator while the other hand is used to rotate the driving gear wheel, the handle 13 thus serving to steady the churn while the latter is being operated.

A dasher 14 is adjustably mounted upon the shaft 8 and at 15 the dasher is provided with a relatively sharp bearing portion which rests against the bottom of the receptacle 1. At 16 the dasher is provided with a set screw or like equivalent retaining device which is adapted to engage the shaft 8 with a view to holding the dasher supported thereon at any required height, according to the depth of the receptacle 1.

In order that the dasher shaft may have a wider range of adjustment the same may be constructed of telescopic sections 16 and 17 as shown in Fig. 4. A device 18 is employed for holding the sections in their adjusted positions. The dasher 19 is telescopically mounted upon the section 17 of the shaft and it may be secured thereon by the adjusting screw 20.

The closure shown in the preferred embodiment of the invention is of ordinary construction. It has been desirable to provide a cover which may be permanently held closed against the receptacle during the churning operation, hence the modification shown in Fig. 5. This cover is provided with a central opening 21 to receive the dasher shaft and an annular series of clamps 22, the latter being designed to engage over the upper edge of the receptacle. This closure is provided with an opening 23 which is closed by a hinged cap 24, the said opening being desirable with a view to facilitating the mixing of hot water with the milk during the churning operation.

I claim:—

In a device of the class described comprising a churn having a concavo-convex bottom, a closure for said churn, a bearing  
5 member extending through said closure, a shaft extending through said bearing and an adjustable dasher carried by said shaft and provided with a sharp bearing portion

adapted to rest on the convexed surface of the bottom of said churn.

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

JOHN B. HOLLINGSWORTH.

Witnesses:

G. H. REYNOLDS,

A. A. MCKENZIE.