

No. 845,940.

PATENTED MAR. 5, 1907.

H. GARBUTT.
CHURN.

APPLICATION FILED DEC. 3, 1906.

2 SHEETS—SHEET 1

Fig. 1.

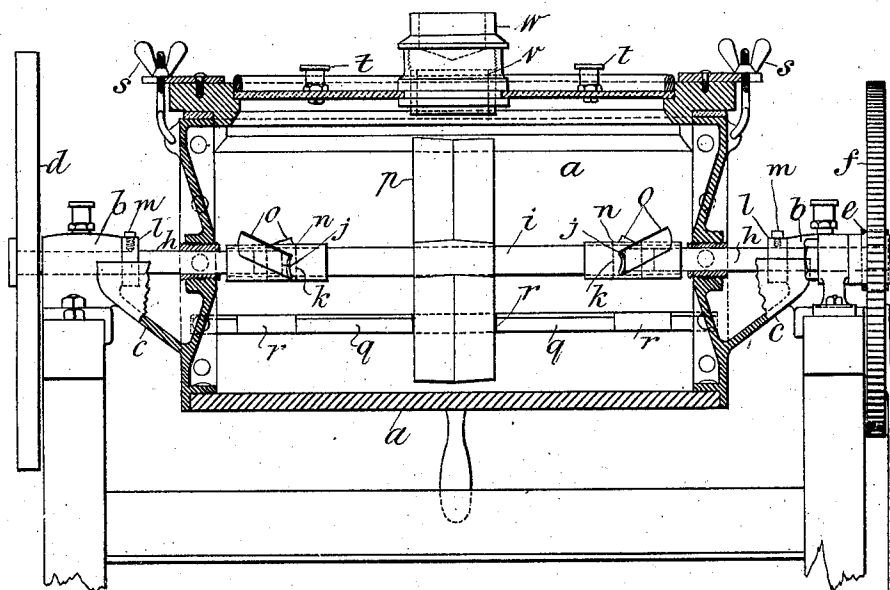
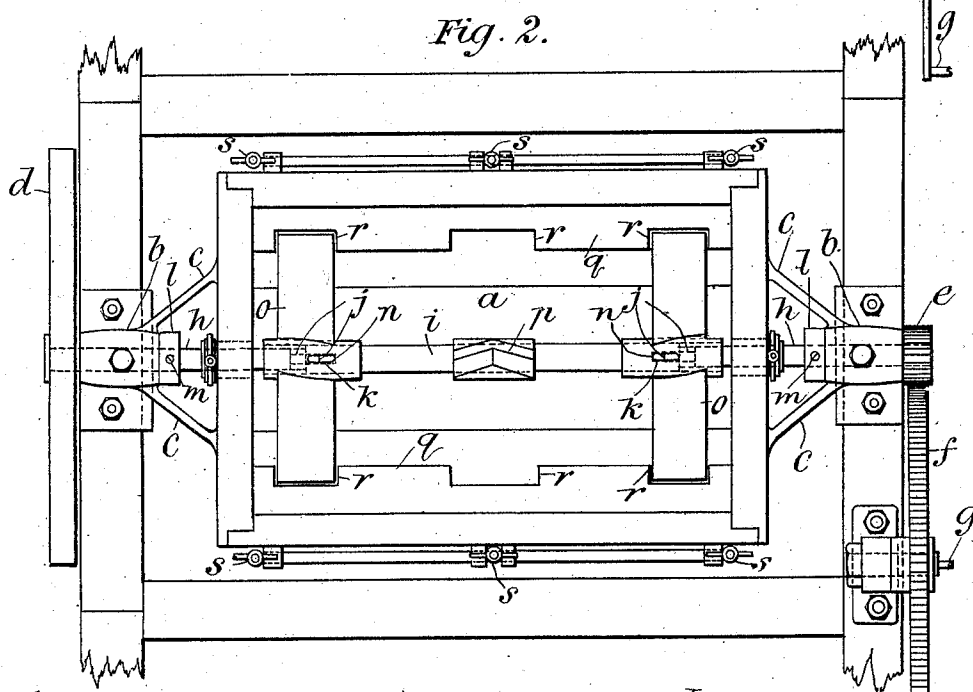


Fig. 2.



Witnesses.

Mr. Silian Adams.

C. B. Franzoni

Inventor.

Harland Garbutt

By his Attorneys,

Baldwin & Wright

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2 SHEETS—SHEET 2.

Fig. 3.

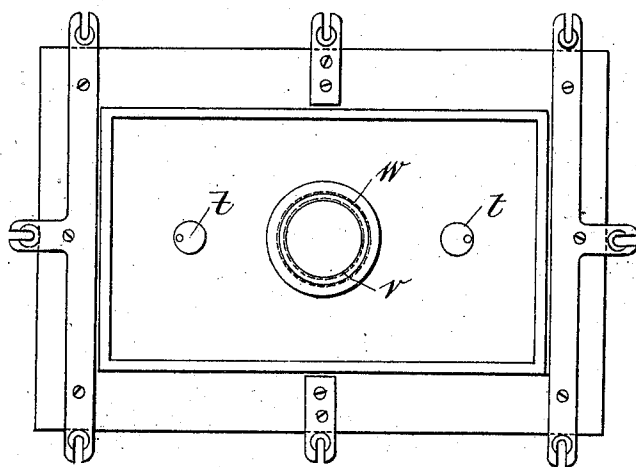
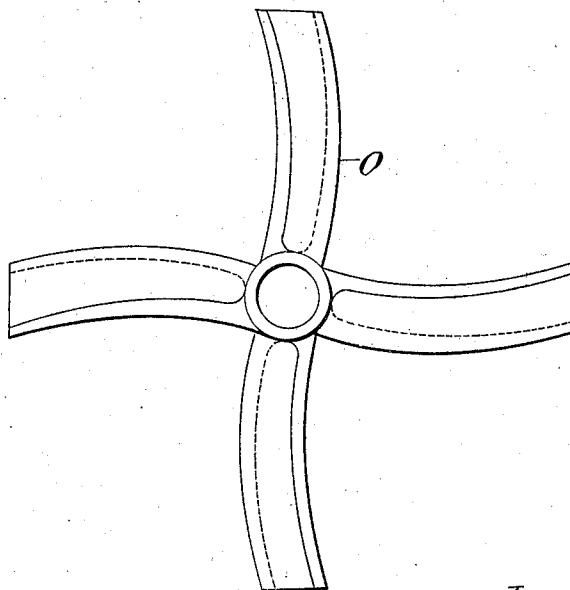


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

HARLAND GARBUTT, OF SEAMER, ENGLAND.

CHURN.

No. 845,940.

Specification of Letters Patent.

Patented March 5, 1907.

Application filed December 3, 1906. Serial No. 346,142.

To all whom it may concern:

Be it known that I, HARLAND GARBUTT, engineer, a subject of the King of Great Britain, residing at Londesborough Iron Works, Seamer, Yorks, England, have invented certain new and useful Improvements in Churns, of which the following is a specification.

This invention relates to that class of churn which is described in the specification of my former patent, No. 814,685.

According to this invention the shaft carrying the dashers is in three parts and so constructed that the ends can slide in their bearings and disengage the central part, so that it can easily be removed, thus overcoming the difficulties now experienced in the removal of the butter and the cleaning of the churn.

Three dashers are usually provided and are so constructed that the two outer dashers propel the cream toward the center of the barrel while the inner dasher propels it outward.

The drawings illustrate a churn made in accordance with this invention.

Figure 1 is a side elevation, partly in section. Fig. 2 is a plan with the cover removed, and Fig. 3 is a plan of the cover. Fig. 4 is an end view of the outer dasher.

a is the barrel of the churn, secured to bearings *b b* by brackets *c c*, the bearings being supported by framework. The shaft carrying the dashers passes through the bearings *b b* and has keyed to one end a fly-wheel *d*, and to the other end a pinion *e*, gearing with a spur-wheel *f*, provided with a

handle *g*. This shaft is made in three parts—two outer parts *h h* and a central part *i*. On the outer parts *h h* are feathers *j j*, which fit into cavities *k k* at the ends of the central part. Normally the outer parts *h h* are held in position by means of collars *l l*, secured to the shaft by set-screws *m m*. Holes *n n* are provided in the shaft to receive a key, which when the screws *m m* have been unscrewed causes the outer parts *h h* to slide in their bearings, thus disengaging the central part *i* and allowing it to be lifted out of the barrel. To the central part *i* are secured dashers. The outer dashers *o o* are so shaped that the cream is propelled toward the center of the barrel while the central dasher *p* propels it outward. The dashers may be perforated, if desired. In the barrel are splash-boards with apertures *r* to allow of the passage of the dashers.

The cover is fastened to the barrel by thumb-nuts *s* and is provided with air-valves *t* and an opening *v*, normally closed by a screw-plug *w*.

If desired, the outer parts *h h* of the shaft may be made hollow and the ends of the central part *i* be provided with feathers.

What I claim is—

In a churn, a barrel, a shaft passing through the barrel and made in three parts, the outer parts being capable of sliding in their bearings and releasing the central part, and dashers carried by the shaft.

HARLAND GARBUTT.

Witnesses:

SYDNEY PEVERILL TURNBULL,
JOSEPH HENRY PARKER.