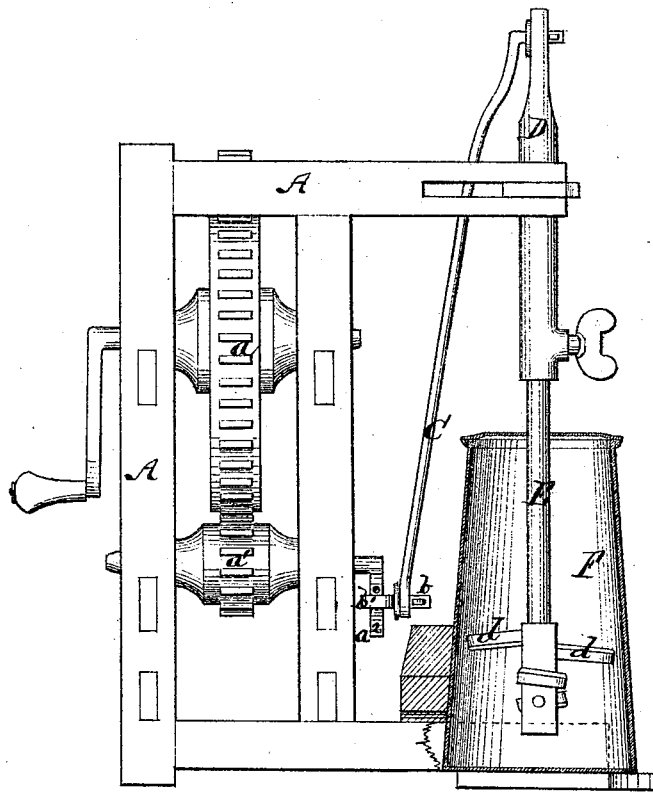


G. H. Mc Glothlen,

Churn.

No. 106,848.

Patented Aug. 30, 1870.



Witnesses,
S. J. Hayes.
J. H. Pearson

Inventor,
G. H. Mc Glothlen by
H. W. Beadle, atty.

United States Patent Office.

GEORGE H. MCGLOTHLEN, OF CHARITON, IOWA.

Letters Patent No. 106,848, dated August 30, 1870.

IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE H. MCGLOTHLEN, of Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Improvement in Churn; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention relates to that class of churns which has vertically-moving dashers operated by means of a pitman and gearing, and consists in certain details of construction, which will be fully described hereinafter.

In the drawing a side elevation of my improved churn is shown with the churn proper in section.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A A represent a frame, constructed of suitable up-rights and cross-beams, which form bearings for the gear-wheel *a* and pinion *a'*.

The former is provided with a crank-handle, by means of which it receives motion, and the latter with a crank-shaft, by means of which it is connected to the pitman by an intermediate wrist-pin, as shown.

This wrist-pin *b* is provided with a collar, *b'*, which incloses the crank-shaft *a'*, and is secured thereto by means of pin, as shown, the crank-shaft being provided with a series of orifices for the purpose of permitting the wrist-pin to be adjusted for a greater or lesser length of stroke.

O represents the pitman, which is provided with an eye at its lower end, which fits upon the wrist-pin and is secured in place by means of a spring pin, as shown. Its upper end is bent and inserted into an orifice in

the upper end of the shaft D, being secured there by means of a pin passed through its end.

The shaft D moves in suitable bearings in the frame. Its lower end is provided with a tube having a threaded orifice and set-screw, as shown.

E represents the dasher-rod, which is made square at its lower end, and provided with blades *d d*, which are inclined from a horizontal plane, as shown.

F represents the churn, which is of the usual tapering cylindrical form.

The operation is as follows:

The churn having been supplied with cream, the dasher-rod is connected to the tube on the shaft D by means of the set-screw, and motion is communicated to the gearing. By this means a rapid vertical motion is given to the dasher by means of the pitman and its connections, and the cream is, consequently, violently agitated.

By means of the collar upon the wrist-pin the length of the stroke is easily regulated.

The churn as a whole is simple in construction and effective in action.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The arrangement of the parts described, to wit, the frame, gearing, adjustable wrist-pin, pitman, shaft, with tube and set-screw, dasher, and vessel, as and for the purpose described.

This specification signed and witnessed this 23d day of May, 1870.

Witnesses: GEORGE H. MCGLOTHLEN.

C. BALDWIN,
JOHN JACKLEY.