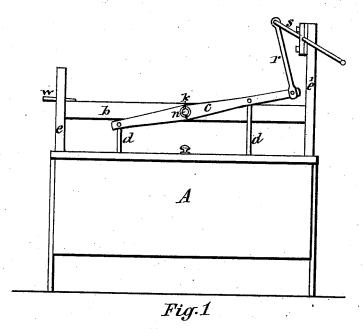
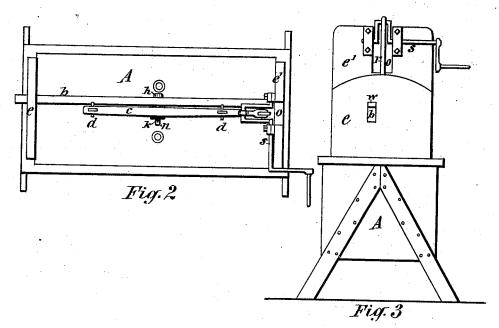
D. H. VEDDER. Churns.

No. 196,170.

Patented Oct. 16, 1877.





Witnesses: This Fl. Konollin b. Evans,

Inventor: Lavid H. Vedder, Yns E. Lauss Atty:

NITED STATES PATENT OFFICE.

DAVID H. VEDDER, OF CICERO, NEW YORK.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 196,170, dated October 16, 1877; application filed March 2, 1877.

To all whom it may concern:

Be it known that I, DAVID H. VEDDER, of Cicero, in the county of Onondaga and State of New York, have invented new and useful Improvements in Churns, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in that class of churns in which two reciprocating dashers receive motion from a verticallyoscillating walking-beam arranged longitudinally central over a rectangular tub or vat.

The object of this invention is to provide simpler, cheaper, easier, and more effective means for operating such churns, and to connect the mechanism in such a manner as to admit of its ready attachment and detachment, and of adjusting and securing the same in its relative bearings and position, and brace the churn when in operation; and it consists in the combination and arrangement, with a churn having two dashers reciprocated by a vertically-oscillating walking-beam arranged longitudinally central over a rectangular tub, of two extension end boards, each constituting a support for the removable bar to which the walking-beam is pivoted, and one of said boards also constituting a support for the crank-shaft, arranged to operate the walking-beam at its longer end, all as hereinafter set forth and claimed.

The invention is fully illustrated in the accompanying drawing, wherein Figure 1 is a side view of my improved churn; Fig. 2, a top view, and Fig. 3 an end view, of same.

Similar letters of reference indicate corre-

sponding parts.

A is the rectangular tub or vat to contain the cream. Its end pieces e e' are extended in height above the top, and are braced by the bar b extended from end to end of tub, and secured in mortises in the aforesaid extensions by a wedge, w, so as to admit of its ready attachment and detachment and of tightening

in case of shrinkage in the wood, and also of moving the bar longitudinally, when required, for adjusting the pivot of the walking - beam in its proper position relative to the passages of the dashers through the cover of the vat,

and to the crank and pitman.

C is the walking-beam, arranged longitudinally central above the tub and pivoted near the center of same to the bar b, by a bolt, n, having a head, h, at one end and a key, k, or its equivalent, at the opposite end. d d are ordinary dashers connected with the walkingbeam equidistant from its pivot. One end of the walking-beam is extended to form a lever beyond the dasher, and is connected at its extremity with the pitman r.

s is a crank-shaft attached across the upper portion of the extended end piece e', which has an opening, o, through which the crank plays, and the churn is operated by a handle applied direct to said crank-shaft, thus avoiding the friction of gearing and applying the power to the walking-beam at the greatest possible dis-

tance from its fulcrum.

Having thus described my invention, what I claim as new, and desire to secure by Let-

ters Patent, is-

In a reciprocating churn constructed substantially as herein described, the two end extension boards e e', each constituting a support for the removable bar b, to which the walking-beam is pivoted, one of the said boards, e', also constituting a support for the crankshaft arranged to operate the walking-beam at its longer end, all constructed as herein shown and specified.

In testimony whereof I have signed my name and affixed my seal in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga and State of New York,

this 22d day of February, 1877. DAVID H. VEDDER. [L. s.]

E. BENDIXEN,

C. EVANS.