No. 699,101. Patented Apr. 29, 1902.

W. D. CARSON.

ROTARY Cchurn.

(Application filed Feb. 2, 1901.)

(No Model.)

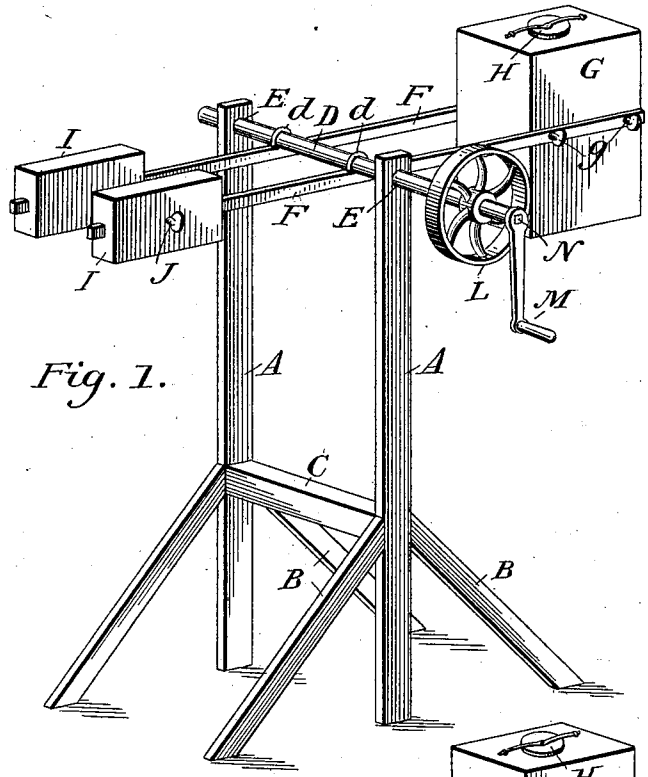


Fig. 1.

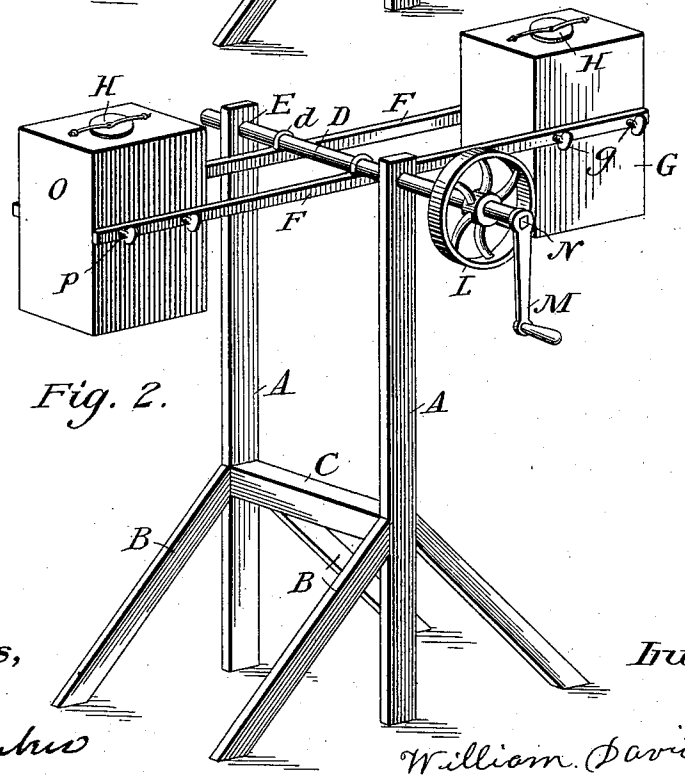


Fig. 2.

Witnesses,
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UNITED STATES PATENT OFFICE.

WILLIAM DAVID CARSON, OF CENTRALIA, ILLINOIS.

ROTARY CHURN.

SPECIFICATION forming part of Letters Patent No. 699,101, dated April 29, 1902.

Application filed February 2, 1901. Serial No. 45,800. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DAVID CARSON, a citizen of the United States, residing at Centralia, in the county of Marion and State of Illinois, have invented a new and useful Rotary Churn, of which the following is a specification.

My invention relates to an improvement in a rotary churn; and the object of my invention is to provide a churn which will revolve about a shaft counterbalanced by adjustable weights on the other side of the shaft, whereby the weight of the churn and contents are equalized, and the power required to operate the shaft and churn is thereby materially reduced. This same object may also be accomplished by adjusting a duplicate churn on the opposite side of the shaft with the contents counterbalancing instead of the adjustable weights. I attain this object by the mechanism in the accompanying drawings, illustrating the same, in which—

Figure 1 is an illustration of the entire machine with the adjustable weights, and Fig. 2 is an illustration of the entire machine with the double churn instead of weights on one side.

Similar letters refer to similar parts throughout the several views.

The standards or legs A A, the braces B B, and the cross-piece C constitute the framework of the machine. The shaft D, operating in the bearings E E, is fitted into two parallel bars F F, extending at right angles with the shaft. Between one end of said bars is fastened the receptacle or churn G by the set-screws *g g*, having an adjustable air-tight lid H, with two weights I I on the other end of said bars arranged so that they will slide in or out to counterbalance the weight of said churn and contents and fastened in the desired position by set-screws J J, said shaft, churn, and weights to be rotated by power applied by belt on pulley-wheel L or by adjustable hand-crank M, fastened to end of shaft N, whereby the milk in the receptacle is agitated and churned to butter.

In Fig. 2 the mechanism is identical, except that instead of the sliding weights there is substituted a duplicate churn O, fastened in position by the set-screws *p p*, which, with its contents, counterbalances the weight of the other churn G and contents.

I am aware that prior to my invention rotary churns have been made. I therefore do not claim the invention of the means of churning by a rotary churn broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

In a churn, the combination of a suitable framework, a shaft supported thereby, parallel arms secured to said shaft, a receptacle or churn removably secured to said parallel arms, weights carried by the opposite extended portion of said parallel arms, means to adjust said weights to accurately counterbalance the churn or receptacle and contents and operating mechanism substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM DAVID CARSON.

Witnesses:

W. L. KEOWN,

J. B. CHAMBERS.