

(No Model.)

L. H. CONNER.
MEANS FOR OPERATING CHURNS.

No. 455,739.

Patented July 14, 1891.

Fig. 1

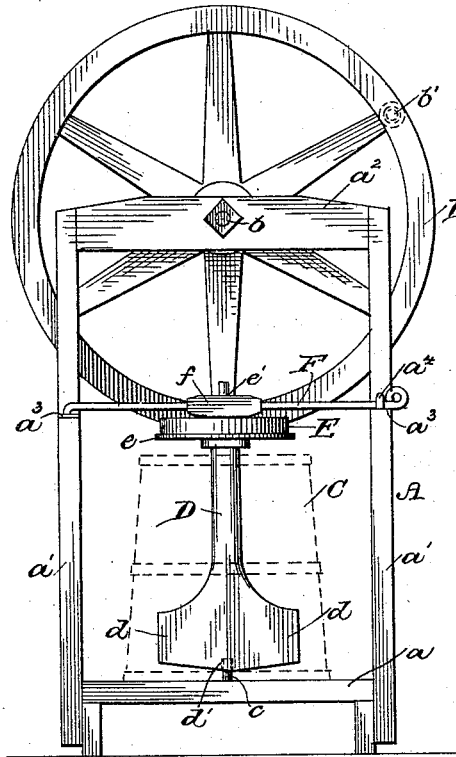
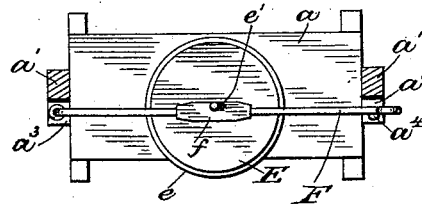


Fig. 2



Witnesses

E. M. Hallahan

J. Edgar Smith

Inventor

Lawrence H. Conner

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

LAURANCE H. CONNER, OF GRAND VIEW, TEXAS.

MEANS FOR OPERATING CHURNS.

SPECIFICATION forming part of Letters Patent No. 455,739, dated July 14, 1891.

Application filed December 2, 1890. Serial No. 373,386. (No model.)

To all whom it may concern:

Be it known that I, LAURANCE H. CONNER, a citizen of the United States, residing at Grand View, in the county of Johnson and State of Texas, have invented a new and useful Means for Operating Churns, of which the following is a specification.

This invention is an improvement in churns, and has for its object to provide a simple and effective churn.

With this object in view the invention resides in the various novel details of construction and the combination of parts, hereinafter fully described, and particularly pointed out in the claims.

In the drawings in which I have illustrated my invention, and in which like letters of reference indicate corresponding parts, Figure 1 is a side elevation of my improved churn. Fig. 2 is a horizontal section taken on the shoulders a^3 and omitting the wheel B of Fig. 1.

In the drawings, the letter A designates the frame, which consists of a platform a , standards a' , and a cross-piece a^2 . The standards a' have shoulders a^3 provided on their inner sides, for a purpose to be described. A driving-wheel B is mounted upon a shaft b , which is suitably journaled in the cross-piece a^2 , and said driving-wheel may be provided with any means whereby it may be caused to revolve. I have illustrated the said driving-wheel as being provided with a crank-handle b' for this purpose. The wheel B may have upon its periphery bands, for a purpose to be described.

C represents the churn, and is provided with a pin c near the bottom, which is designed to fit in a suitable hole in the dasher-shaft, which will now be described.

D is a dasher-shaft, having upon its upper end the horizontal wheel E, having the flange e , and above the wheel E is a journal e' . The dasher-shaft D has upon its lower end the dasher-blades d , and has in its body the hole d' , within which fits a pin c . The said dasher is held in such position that the periphery of the wheel B will impinge upon the flange e of the wheel E, and the side of the wheel B will impinge upon the periphery proper of the

wheel E, and thereby impart motion to the same by means of the following device.

F designates a spring-bar, which has one of its ends pivotally secured in the shoulder a^3 on one of the standards a' , a central bearing-piece f , provided to receive the journal e' , and having its other end adapted to be received by a catch a^4 , located on the shoulder a^3 on the opposite standard.

It will be seen that in order to place my churn in operative position I place the churn-body upon the platform, pour the cream therein, place the dasher-shaft within the churn-body, as before described, and press the wheel E against the wheel B by means of the spring-bar F, as before described, the frictional contact of the peripheries of the two wheels being increased, if desired, by bands of rubber or leather which may be placed thereon. It is obvious that by the revolution of the driving-wheel E the dasher-shaft will be caused to revolve therewith and the cream will quickly be churned.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the standards provided with shoulders upon their rearsides, of a cross-piece between said standards, a driving-wheel journaled on said cross-piece, a dasher-shaft suitably mounted within the churn-body and having upon its upper end a flanged wheel and the journal above said flanged wheel, and a spring-bar having one end pivoted to one of the standards in its shoulder and having a bearing near its center and having its other end adapted to be received by a catch on the shoulder in the other standard, the said spring-bar being adapted to press the flanged wheel against the driving-wheel, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

LAURANCE H. CONNER.

Witnesses:

JOHN M. BERRY,
JAMES H. TAYLOR.