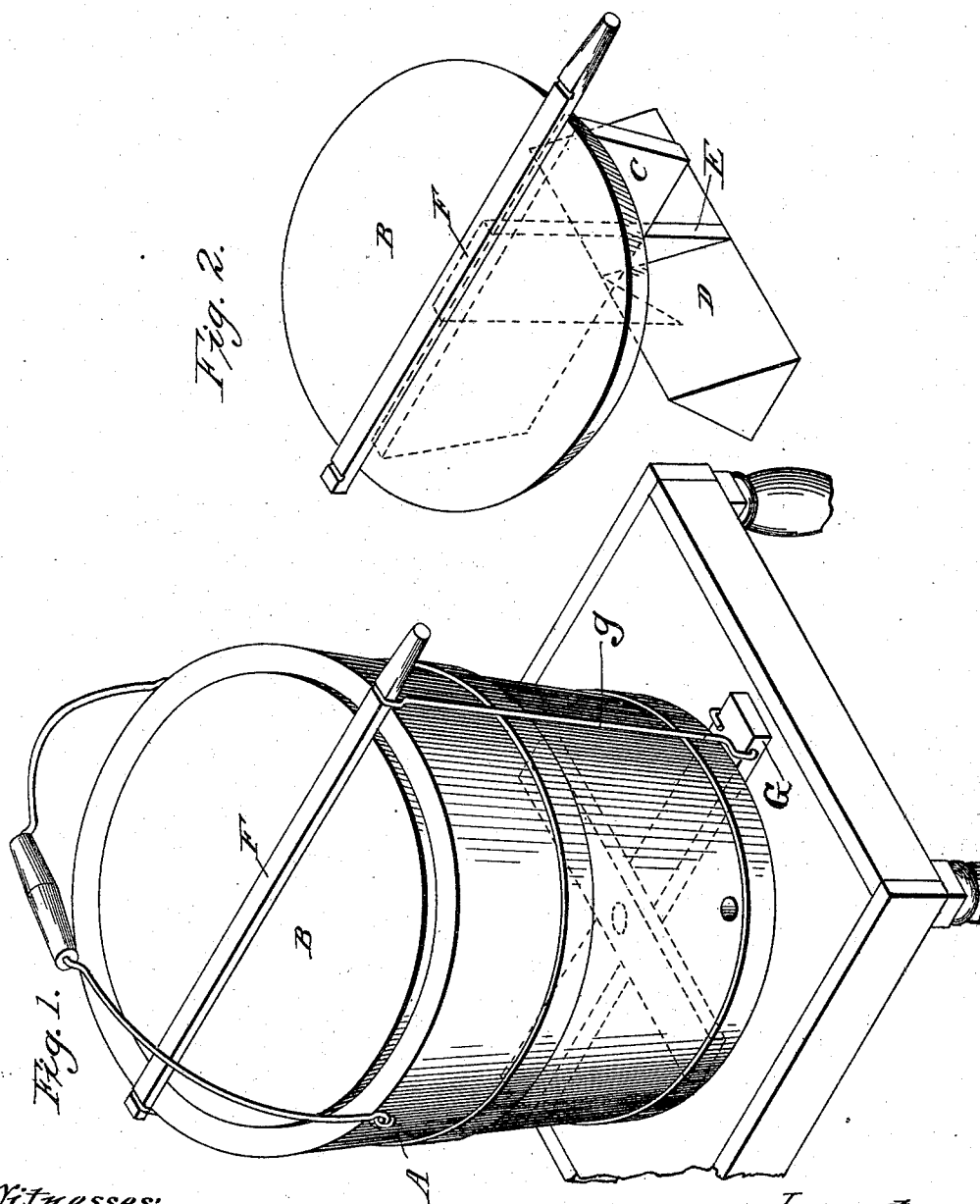


(No Model.)

E. W. ALLEN.
CHURN.

No. 470,533.

Patented Mar. 8, 1892.



Witnesses:
Chas. E. Robertson,
W. E. Clendaniel.

Inventor:
Erasmus W. Allen
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Attorney.

UNITED STATES PATENT OFFICE.

ERASMUS W. ALLEN, OF SENECA, KANSAS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 470,533, dated March 8, 1892.

Application filed May 15, 1891. Serial No. 392,894. (No model.)

To all whom it may concern:

Be it known that I, ERASMUS W. ALLEN, a citizen of the United States, residing at Seneca, in the county of Nemaha and State of Kansas, have invented certain new and useful Improvements in Churns; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object is to construct a churn which shall possess the advantages of cheapness of construction and adaptability to the churning of either a small or large amount of cream either slowly or rapidly without any change of the churn being required. By the peculiar construction of the attachments to the cover they may all be removed at once, leaving the body of churn clear of all obstructions. By this arrangement an ordinary water bucket or jar may be used for the body of the churn.

The novelty and construction are more clearly pointed out in the following descriptions, and then definitely claimed.

In the accompanying drawings, Figure 1 is a perspective view of a churn constructed according to my improvement, and Fig. 2 is a similar view of the cover with the breakers separated from the churn-body.

Referring now to the details of the drawings by letter, A is the receptacle of the cream, and is of wood, stone, or metal, and may be of any desired shape, and is provided with a cover B, to which is attached on its outer surface a handle F and on its inner surface a horizontal breaker C and post E.

C is a breaker attached horizontally to the cover B, of length to conform to the width of the receptacle A, and serves, also, as a cleat for the cover and a support to post E. Said post E is attached to cover B and breaker C and has its lower end cut into an inverted-V shape, thus forming a suitable bearing for the upper or sharp edge of the breaker D, which is a three-cornered block placed par-

allel with and near the bottom of the churn, and is set at right angles with breaker C, and is secured to the lower end of post E, so that as the churn is oscillated the current of the cream strikes the inclined sides of D and is thrown upward and against C.

F is a handle or cleat attached to the outer surface of cover, and over its projecting ends are placed the hooks *g*, which are attached to the oscillating pivoted frame G, upon which the churn is placed when in use.

The operation is as follows: The cream being placed in the churn, the cover is put on and secured by the hooks *g* to the oscillating frame G. The operator then takes hold of the handle and oscillates the churn upon the pivot, (shown in dotted lines in Fig. 1,) which passes through the frame and into a socket formed in the table. The oscillation of the churn as the current of the cream strikes the inclined side of the breaker D throws it upward against the breaker C, after which it falls down to be again acted upon by the breaker D, and these movements when continued cause the butter to rapidly gather and separate from the cream.

What I claim as new is—

1. The combination, with a cream-receptacle A, of a cover B, having a breaker C secured to it, and breaker D, connected with the cover and below and at an angle to the breaker C, substantially as described.

2. The combination of a receptacle A, a cover B, having a breaker C, breaker D, set at an angle to the breaker C and secured below the same, and a handle F with an oscillating frame G and hooks *g*, all substantially as described and shown.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of December, A. D. 1890.

ERASMUS W. ALLEN.

Witnesses:

BEN. PITCHFORD,
J. W. PERRY.