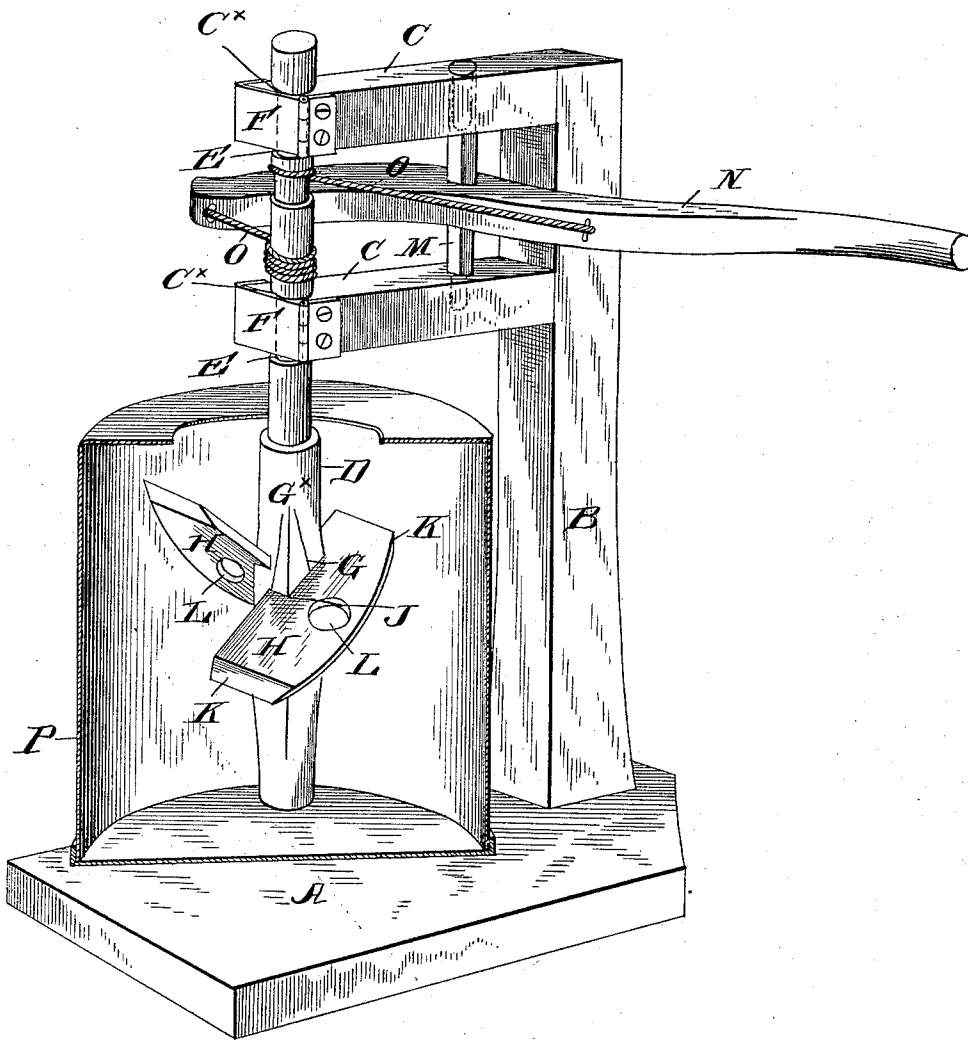


H. C. ANDERSON.
CHURN.

Patented Feb. 23, 1892.



Witnesses:
J. M. Gurr.
Reuben Moore.

Inventor:
Henry C. Anderson
By *Wm. N. Moore.*
Attorney.

UNITED STATES PATENT OFFICE.

HENRY C. ANDERSON, OF WHITESBOROUGH, TEXAS, ASSIGNOR OF THREE-FOURTHS TO JOEL W. WEAVER AND RICHARD N. FOX, OF SAME PLACE.

CHURN.

SPECIFICATION forming part of Letters Patent No. 469,511, dated February 23, 1892.

Application filed February 3, 1891. Serial No. 380,023. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. ANDERSON, a citizen of the United States of America, residing at Whitesborough, in the county of Grayson and State of Texas, have invented certain new and useful Improvements in Churns, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in churns, and has special reference to what are known as "vibrating-dasher" churns.

The object of my invention is the provision of a churn of the character named by means of which butter can be produced in a short time and without fatiguing the operator and which will be of simple and durable construction and can be produced at such a small price as to place the churn within reach of all who desire a practical and useful article of this character.

To attain the desired object the invention consists in the improved construction and combination of parts, substantially as herein illustrated, described, and specifically claimed.

The figure of the drawing represents a perspective view, partly in section, of a churn constructed in accordance with and embodying my invention.

Referring by letter to the drawing, A designates a suitable base, from which rises a standard or upright B, and extending inward from the standard are the arms C, which are of the same length and are arranged a suitable distance apart. The outer or free ends of the arms C are formed with bearings C^x for the dasher-shaft D, which is reduced at E to fit snugly in the bearings formed in the arms, and to prevent the dasher-shaft from becoming loose or detached from the bearings I employ the hinged plates F, which fit over the bearings and have their free ends formed with lips to retain them in place. The dasher-shaft is squared at G, and the blades H are cut out of recessed at J to fit on said shaft. The blades are arranged opposite to each other at an angle to the shaft and are reversely in-

clined. The blades are also rounded at their outer edge and have their ends K beveled in opposite directions, and are further provided with an opening L, all as clearly shown. I have found that this construction of blades and arrangement on the dasher-shaft obtains the best possible results. The dasher-shaft is notched or grooved at G^x to secure the blades on the shaft, as is evident. Between the arms C, I journal the square shaft or stud M, which has its ends reduced and rounded to bear in openings in the arms, and this shaft carries the operating-lever N, which is substantially bow shape for a part of its length, and to said shaft are attached the ends of the operating-cords O, the other ends whereof are wound around the dasher-shaft, which shaft may be provided with grooves to receive the said cords.

This being the construction, the consequent operation is as follows: The cream is placed in the churn-receptacle P, and by moving the lever back and forth the dasher-shaft is moved or vibrated, and this action effects the churning of the butter, as will be readily understood.

It will be evident to all conversant in the matter of churns that I provide one which possesses the necessary features of merit and which will commend itself as thoroughly practical and useful.

I claim as my invention—

A churn-dasher consisting of the rod having the round upper end formed with grooves to serve as bearings, the lower squared end, the blades having the inner straight edge formed with a kerf and removably fitted on the squared end, and the blades arranged at a reverse incline to each other, said blades having a curved outer edge, oppositely-inclined ends, and a central opening, as shown.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY C. ANDERSON.

Witnesses:

M. D. MCAFEE,
J. L. BEACH.