(No Model.)

E. H. BAUGH.

CHchurn.

No. 525,938. Patented Sept. 11, 1894.

Fig. 1.

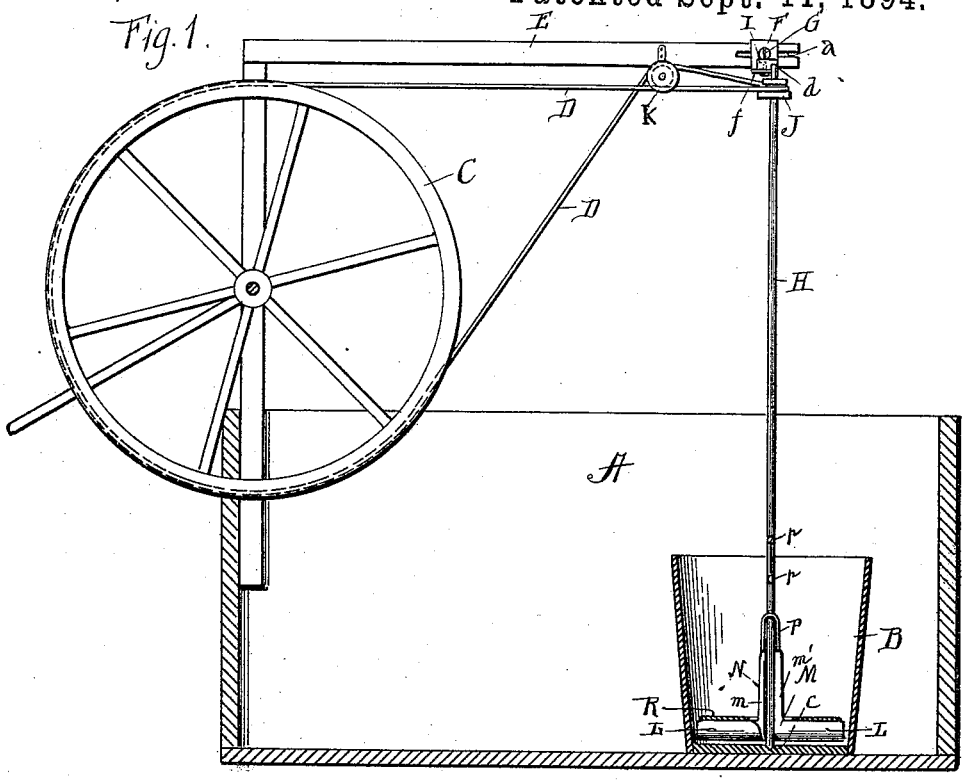


Fig. 2.

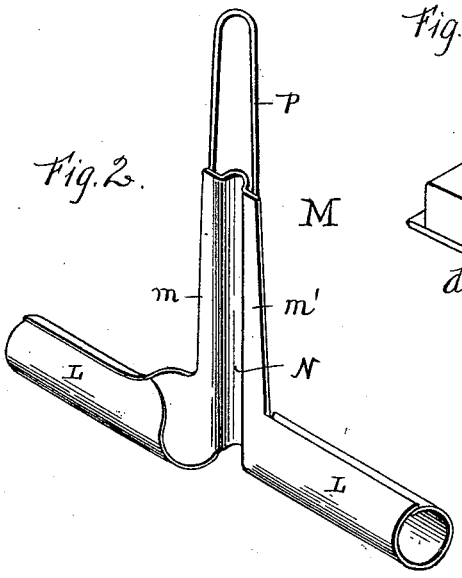
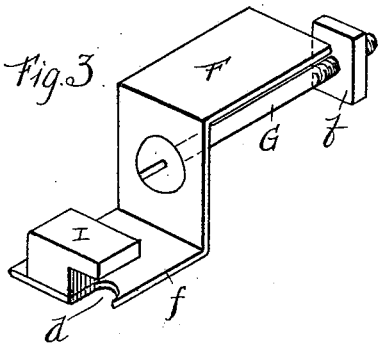


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

EDWARD H. BAUGH, OF MEXIA, TEXAS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 525,938, dated September 11, 1894.

Application filed May 29, 1894. Serial No. 512,831. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. BAUGH, a citizen of the United States, and a resident of Mexia, in the county of Limestone and State of Texas, have invented certain new and useful Improvements in Churn Motors and Dashers; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side elevation of the invention partly in section. Fig. 2 is a perspective view of the dasher. Fig. 3 is a detail of bracket and bolt.

This invention has relation to certain new and useful improvements in a combined churn motor and dasher, my object being to provide a simple and effective, and inexpensive device of this character; and the invention consists in the novel construction and combination of parts, all as hereinafter described and pointed out in the appended claims.

Referring to the accompanying drawings the letter A designates a suitable frame for supporting the motor, and which may, as indicated, form a cage or receptacle for a churn B. Journaled on an upright of said frame is a motor or power wheel C, designed to be rotated by a crank, or other suitable power, and having a grooved periphery for a belt or band D. Extending horizontally over the frame from said upright is an arm E, which, at its extremity has formed therein an elongated horizontal slot *a*.

F is a bracket which is attached to said arm by means of a bolt G which passes through the slot *a*, being held by a nut or tap *b*, which, upon being loosened, permits the bracket to be adjusted toward and away from the power wheel.

H designates the vertical dasher shaft which at its lower end is removably stepped in a bearing *c* in or on the churn bottom, and at its upper end has a half-bearing *d*, in a horizontal, projecting arm *f* of the bracket F. I is a small recessed guard block which is secured to the arm *f* over the upper end of the said dasher shaft, and serves to keep the latter from jumping out of its lower bearing, while permitting it to be readily removed from its bearings by a lateral and vertical movement.

J is a pulley on the shaft H which is on a line with the top portion of the power wheel.

K is an idler journaled on a depending arm, and over which is passed the lower portion of the belt or band. This idler is also in the line of the shaft pulley or power wheel, this arrangement making it possible to run the upright shaft with the upright power wheel.

M designates the dasher, which consists of a pair of short, opposite tubular arms L, open at both ends, the openings of the inner ends of the arms being upon opposite sides of the shaft. Said arms are carried by a sleeve-like piece N open at one side, and having the edges thereof bent outwardly, forming flanges *m m'*. Said sleeve is made to fit the shaft closely but removably, and is usually secured thereon by means of a spring loop P which engages notches or catches *p* on the shaft, a series of such notches or catches being usually provided at different heights in order that the dasher arms may be adjusted to suit the quantity of cream in the churn.

This form of dasher is found to be very effective in that a continual circulation of the cream is kept up through the tubular arms L, aided by the flanges *m m'*, which form abutments to the cream, and not only agitate it but direct it into the said arms. This circulation is maintained by suction, the cream being drawn down around the shaft, and thrown outwardly through the tubular arms.

R designates a circular disk placed around and resting upon, or slightly above, the dasher arms for the purpose of preventing splashing.

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

1. In a churn motor or dasher, the combination of the upright, the arm E, the bracket F adjustably carried by said upright, the dasher shaft removably stepped in a bearing in the churn, and having a half-bearing in said bracket, the guard block on said bracket, the pulley on said shaft, the idler carried by an arm of said arm E, the power wheel journaled on said upright, and the driving belt or band, said shaft, pulley and idler being in

line with the upper portion of said power wheel, substantially as specified.

2. In a churn dasher, the rotary dasher shaft having the sleeve on its lower portion, the opposite tubular arms L carried by said sleeve, said arms being open at both ends, the inner openings being upon opposite sides of the shaft, said sleeve having the flanges *m*, *m'*, substantially as specified.

3. In a churn dasher, the combination with a rotary dasher shaft, having a series of notches or catches thereon at different heights, of the sleeve on the lower portion of said shaft said sleeve having the flanges *m*, *m'*, and the tubular arms L, the spring loop carried by said sleeve and adapted to engage any one of said notches or catches, substantially as specified.

4. In a churn dasher, the combination with a rotary dasher shaft, of a sleeve on the lower portion of said shaft, and having the opposite, tubular arms, said arms being open at both ends, and the flanges *m*, *m'* and the guard R carried by said shaft, substantially as specified.

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

EDWARD H. BAUGH.

Witnesses:
W. A. SMITH,
DAVID PLATT.