

(No Model.)

L. DAVIS.  
CHURN.

No. 265,764.

Patented Oct. 10, 1882.

Fig. 1.

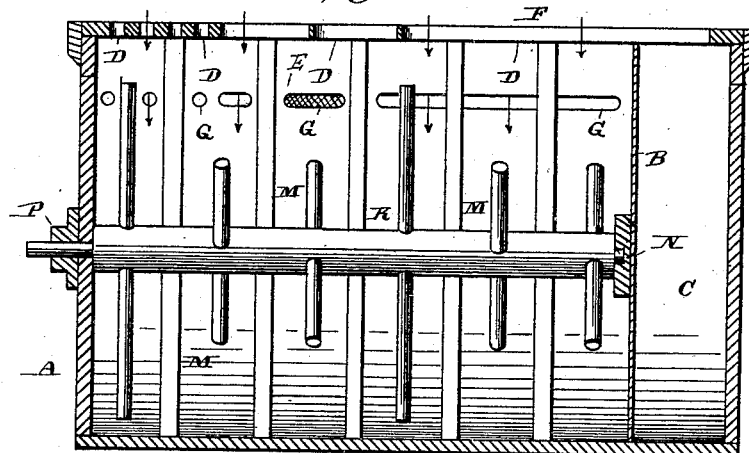


Fig. 2.

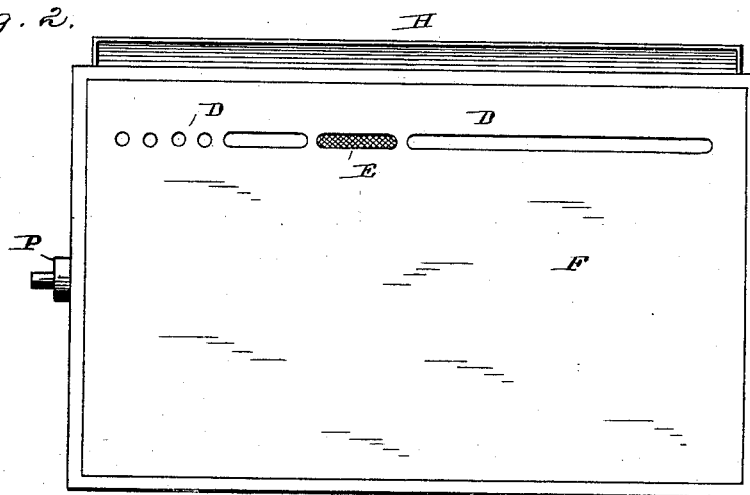
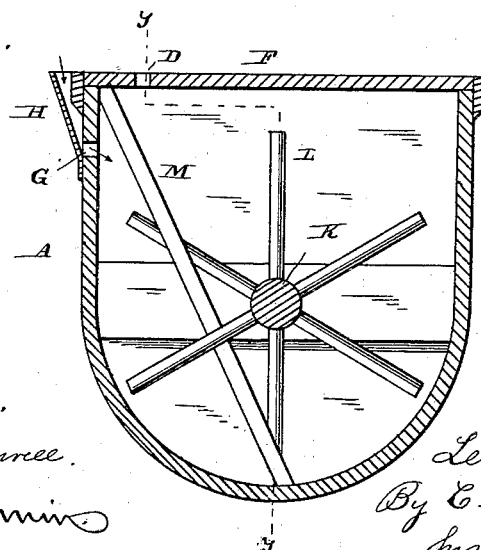


Fig. 3.



Witnesses,  
Edwin L. Yerree.  
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Levi Davis.  
By C. M. Alexander,  
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# UNITED STATES PATENT OFFICE.

LEVI DAVIS, OF WINDSOR, VERMONT.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 265,764, dated October 10, 1882.

Application filed June 14, 1882. (No model.)

### *To all whom it may concern:*

Be it known that I, LEVI DAVIS, of Windsor, in the county of Windsor, and in the State of Vermont, have invented certain new and useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in churns; and it consists in certain improved combinations and arrangements of parts, as more fully hereinafter set forth, and specifically pointed out in the claim.

In the drawings, Figure 1 represents a longitudinal sectional view of the casing or shell of the churn, taken on the line *y y* of Fig. 3, showing the rotary shaft and arms in elevation. Fig. 2 represents a top view of my improved churn, and Fig. 3 a transverse sectional view of the same.

The letter A indicates the body or churn-vessel, which is approximately semi-cylindrical in cross-section. The said body or vessel, near one end, is provided with a partition, B, preferably of sheet-zinc or other metal, forming a compartment, C, which may be filled with hot or cold water, according to circumstances, to "temper" or regulate the temperature of the cream in the churn. The churn-body, near its top, on one or both sides, is provided with a series of openings, G, which may be either circular or oblong, as indicated, and which may be provided with wire-gauze or foraminous covering E, if found convenient.

F indicates the top of the apparatus or churn-body, which sets in a suitable seat at the upper edge of the churn body or vessel, and is

provided with apertures D, similar to those in the upper part of the sides of the body of the churn.

The letter H indicates a conducting-trough, secured to the side of the churn body or vessel opposite the apertures or openings thereof, which serves to conduct the air through the apertures G into the upper part of the churn.

The longitudinal shaft K of the churn is provided with a series of dashers, L, which are radially and spirally arranged, and the casing of the churn with a series of inclined bars, M, so located that the dashers will pass between them as the shaft is rotated. The shaft, at one end, is journaled in a bearing, N, the other journal extending through a box, P, in such manner that it may be fitted with a crank, by means of which the said shaft may be rotated.

The operation of my invention will be readily understood from the above without further description.

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

In combination with the churn-vessel and its rotary shaft, dashers, and inclined rods, the angular chamber communicating with the upper part of the vessel by suitable apertures, whereby air may be admitted to the vessel, the vessel charged with cream, and the discharge of the cream prevented, substantially as set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 6th day of May, 1882.

LEVI DAVIS.

Witnesses:

M. O. HALL,  
T. O. HALL.