

J. MITCHELL.

Churn.

No. 27,927.

Patented April 17, 1860.

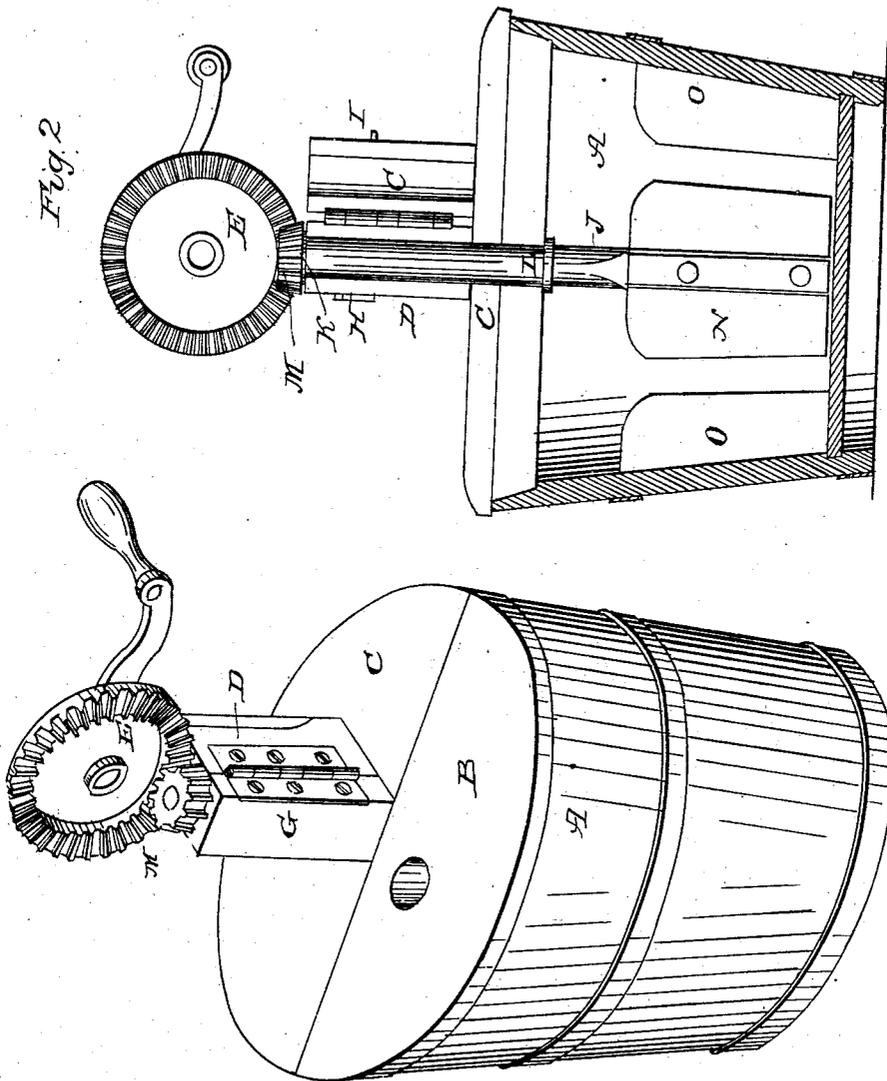


Fig. 2

Witnesses  
James H. Cudby  
John H. Chilton.

Inventor  
John Mitchell  
per Howard Brothers attys.

# UNITED STATES PATENT OFFICE.

JEHU MITCHELL, OF ALEPPO TOWNSHIP, PENNSYLVANIA.

## CHURN.

Specification of Letters Patent No. 27,927, dated April 17, 1860.

*To all whom it may concern:*

Be it known that I, JEHU MITCHELL, of Aleppo township, in the county of Green and State of Pennsylvania, have invented a certain new and useful Improvement in Churns; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1, is a perspective view. Fig. 2 is a vertical section showing the beater shaft entire.

A is a tub of ordinary construction with a lid or cover made in two parts B and C and fitted in the top.

D is a standard mortised into and firmly secured to one part of the lid. The back part of said standard projects higher than the front and forms a support and bearing for the axle of the driving wheel E. In the front of the standard D one half of a vertical journal box is formed, the other half or cap G is hinged at one side in such a manner as to permit the ready removal of the shaft suspended and working therein by simply unhooking and swinging open the cap of the box.

H is a hook and I a pin or eye attached to the standard and cap respectively for the purpose of keeping the latter closed.

J is the dasher shaft extending nearly to the bottom of the tub having upon it two collars K, L, one beneath the pinion M and resting on the top of the box and the other just below the bottom of the cover, to prevent a vertical motion of the dasher shaft and also prevent the cream from being thrown upon the journal bearing of the shaft J. The pinion M meshes into cogs on the driving wheel E through which motion is communicated to the dasher shaft.

N are dasher wings and O brakes of common construction.

In order to remove the dasher from the tub the part B of the lid is lifted out first then the cap of the box unhooked when the dasher can be taken out for the purpose of inspecting the butter or cleansing the churn without the necessity of removing the driving gear or the main portion of the cover.

Suspending the dasher within an elongated hinged journal box in the manner described, combined the following advantages. A rigid bearing is afforded to the dasher so as to prevent any tremulous motion, without the necessity of any metallic step or bearing within the churn, the oxidation of which imparts a bad flavor to the butter. The dasher may be readily removed for the inspection of the cream or cleansing the churn, without removing the gearing and main part of cover. The vertical and horizontal shaft being journaled in one standard common to both gives durability and ease of motion with great economy of construction.

I do not claim broadly the construction of a churn without a step at bottom, neither do I claim novelty in mounting a journal in a hinged bearing irrespective of the connection and purposes herein shown, but

What I claim as new and of my invention as an improvement in churns is—

The arrangement of the gearing E M, standard D hinged caps G vertical dasher J N, and collar L, the whole being constructed and combined in the manner and for the purposes hereinbefore set forth.

In testimony of which invention, I hereto set my hand.

JEHU MITCHELL.

Witnesses:

I. H. WELLS,  
JAS. A. J. BUCHANAN.