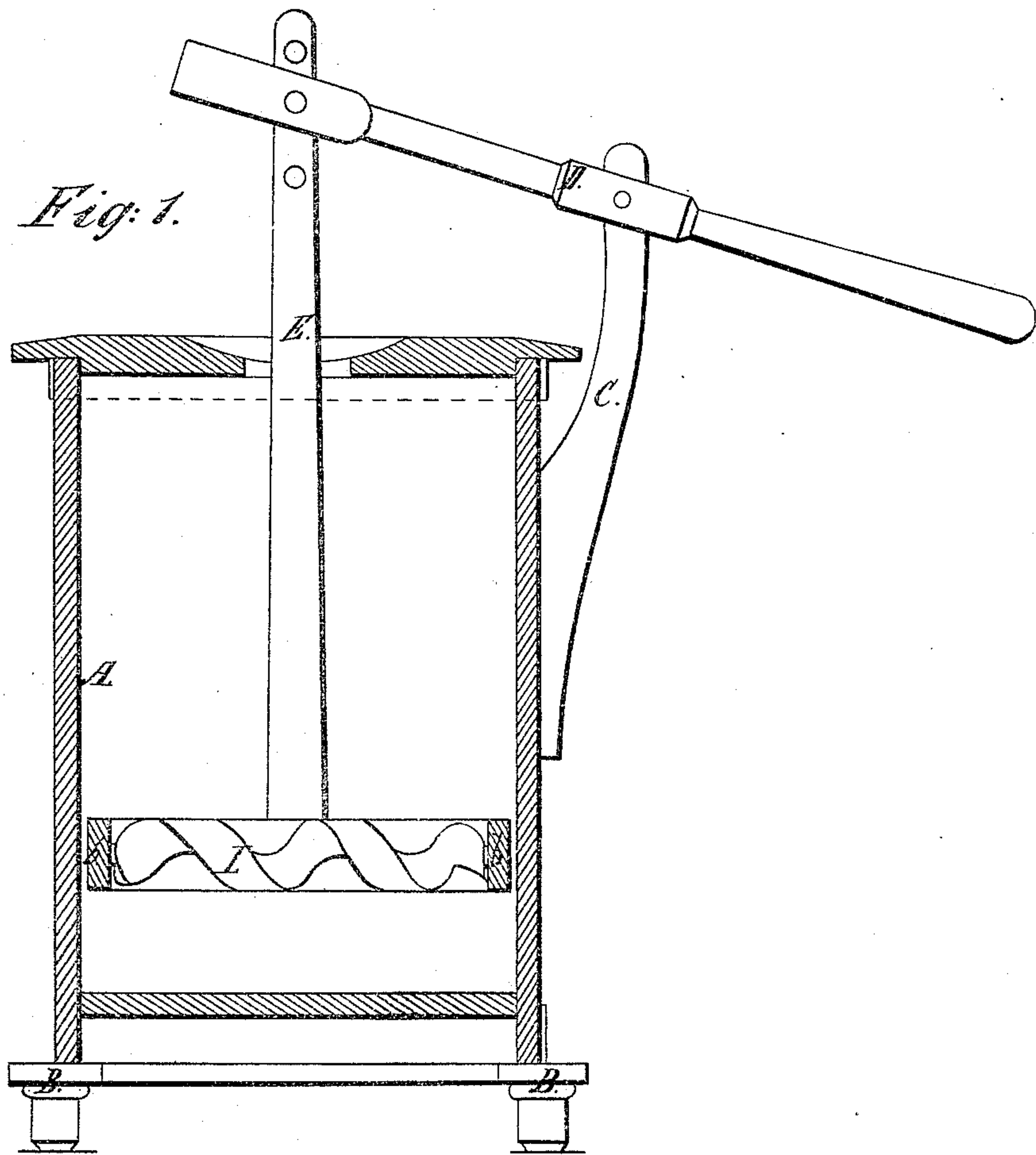


*Schlingman, Glander & Campbell.*

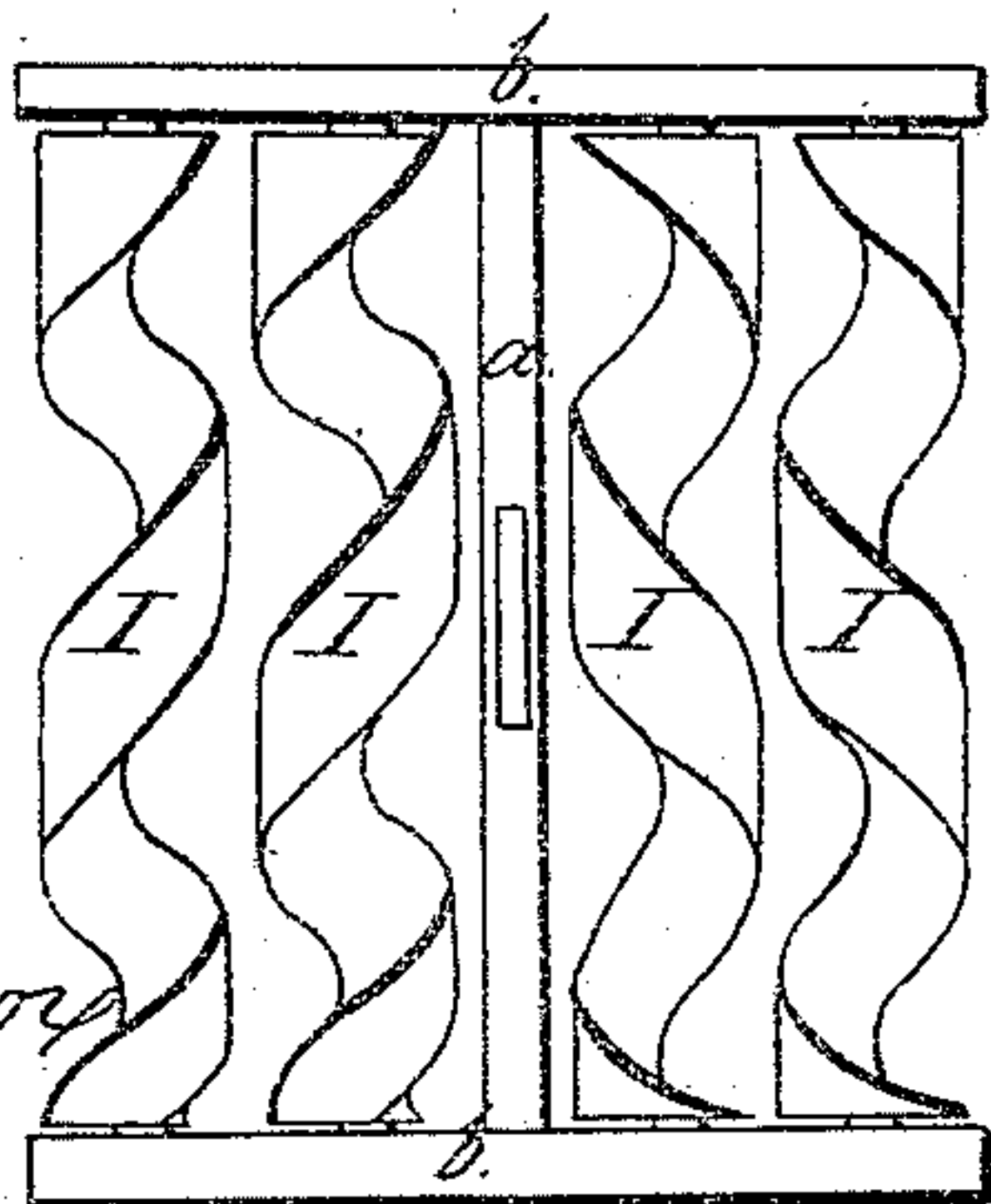
*Reciprocating Churn.*

*N<sup>o</sup> 83,732. Patented Nov. 3, 1868.*

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*Cornelius Cor  
Leopold Curb-*

*Inventor  
A. Schlingman  
W. Glander  
J. Campbell.*

# United States Patent Office.

ADOLPH SCHLINGMAN, DETERICK GLANDER, AND JAMES CAMPBELL, OF WEST ALEXANDRIA, OHIO.

*Letters Patent No. 83,732, dated November 3, 1868.*

## IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that we, ADOLPH SCHLINGMAN, DETERICK GLANDER, and JAMES CAMPBELL, of West Alexandria, in the county of Preble, and in the State of Ohio, have invented certain new and useful Improvement in Churns; and 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.

The nature of our invention consists in the construction and arrangement of the churn-dasher and foot-step to the churn, which will be hereinafter more fully explained.

In order to enable others skilled in the art to which our invention appertains, to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a side view in section, and

Figure 2 a plan view of the dasher.

A represents a square churn, made of any material and dimensions required, which churn rests on four posts, B B, or rather on a frame with four feet, to which frame the churn is firmly secured.

By this arrangement the churn is kept perfectly stationary, which is an essential prerequisite to churning good butter.

On one side of the churn is secured an arm, C, to the upper end of which the lever D is pivoted.

One end of this lever forms the handle, and to the other is pivoted the rod E, which descends through a

slot in the centre of the cover of the churn, and to the lower end of which the frame for holding the churn-dashers is secured.

This frame consists of a bar, *a*, fastened to the lower end of the rod E, and two cross-bars, *b b*, secured at their centre to each end of the bar *a*. Between the bars *b b*, and on each side of the centre-bar, *a*, two churn-dashers, I I, are pivoted.

The dashers I I consist of rollers, with a twisted core through their entire length, as shown in the drawings, and have the same effect on the cream at the upward stroke as at the downward.

Instead of having all four rollers of the same shape, we may use two plain and two cored rollers, and instead of a twisted core, we may use straight-turned core-rollers, to suit the temperature of the cream.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The churn-dashers I I, consisting of rollers constructed substantially as herein described, and pivoted in a frame, as and for the purposes herein set forth.

In testimony that we claim the foregoing, we have hereunto set our hands and seals, this 25th day of July, 1868.

ADOLPH SCHLINGMAN. [L. S.]  
DETERICK GLANDER. [L. S.]  
JAMES CAMPBELL. [L. S.]

Witnesses :

LEOPOLD EVERT,  
A. A. YEATMAN.