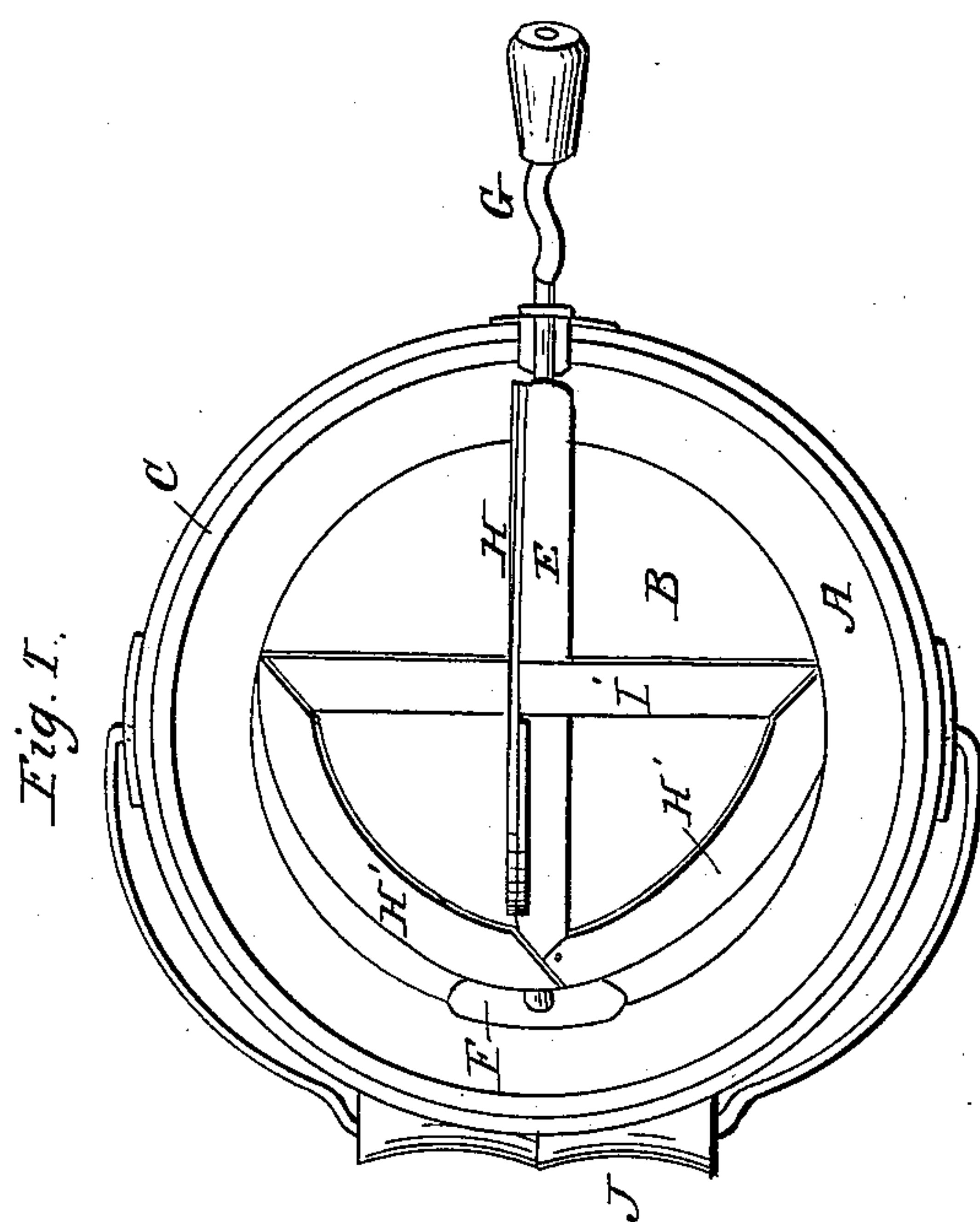
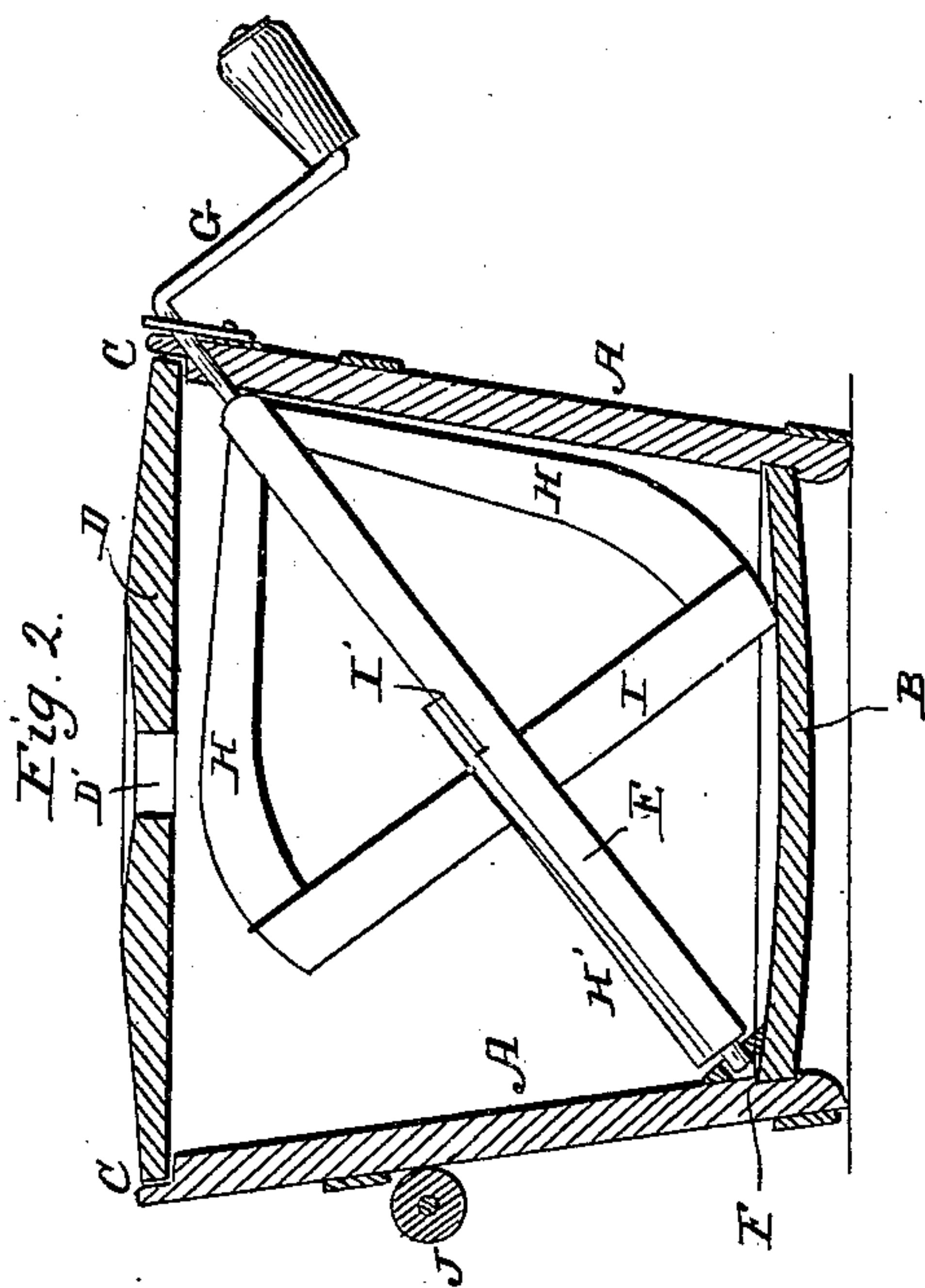


E. PORTER.

Churn.

No. 43,040.

Patented June 7, 1864.



Witnesses:  
W. H. Summell  
Henry Voith.

Inventor:  
Edward Porter

# UNITED STATES PATENT OFFICE.

EDWARD PORTER, OF TALLMADGE, OHIO.

## IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 43,040, dated June 7, 1864.

*To all whom it may concern:*

Be it known that I, EDWARD PORTER, of Tallmadge, in the county of Summit and State of Ohio, have invented new and useful Improvements in Churns; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a top view, and Fig. 2 is a vertical section.

The nature of my invention relates to the form and body of the churn and the form and position of the beaters.

The body of the churn is much like a common water-pail, as shown at A B in Fig. 2; indeed, a common wooden pail may be used for that purpose. The bottom is slightly concave, and around the top of the body is turned a seat, C, for the cover. The cover D consists of a disk of wood having a diameter equal to the seat C, which it accurately fits. There is a hole, D', in the center of the cover to admit the air. The shaft E, to which the beaters are attached, is placed obliquely in the body of the churn, as seen in Fig. 2. A step or box, F, is secured in the angle where the bottom and staves meet, in which the lower end of the shaft E rests. The shaft passes diagonally upward to the opposite side and out

between the cover and the top of the body in a bearing made for that purpose, and the outer end of the shaft is formed into a crank, G, by means of which the shaft is rotated. The beaters H H' are in pairs. The lower end of the upper pair, H, are attached to the arm I, and the upper ends of the lower pair are attached to the arm I'. The opposite ends of both are secured to the upper and lower ends of the shaft respectively. These beaters consist of narrow strips of wood shaped so as to sweep closely to the bottom and sides of the churn. The shaft and beaters can be rotated in either direction by means of the crank G. The body of the churn is furnished with a bail, J, like a common pail, so that when not in use as a churn it can be used for other purposes, thus constituting a combined pail and churn.

What I claim as my improvement, and desire to secure by Letters Patent, is—

The special arrangement of the detachable oblique shaft E, beaters H H', arms I I', and cover D, when used in connection with the body or pail B, and the whole so constructed as to make a churn and pail combined, as and for the purpose specified.

EDWARD PORTER.

Witnesses:

W. H. BURRIDGE,  
HENRY VOTH.