

A. CARBNOW.

Churn.

No. 60,473.

Patented Dec. 18, 1866.

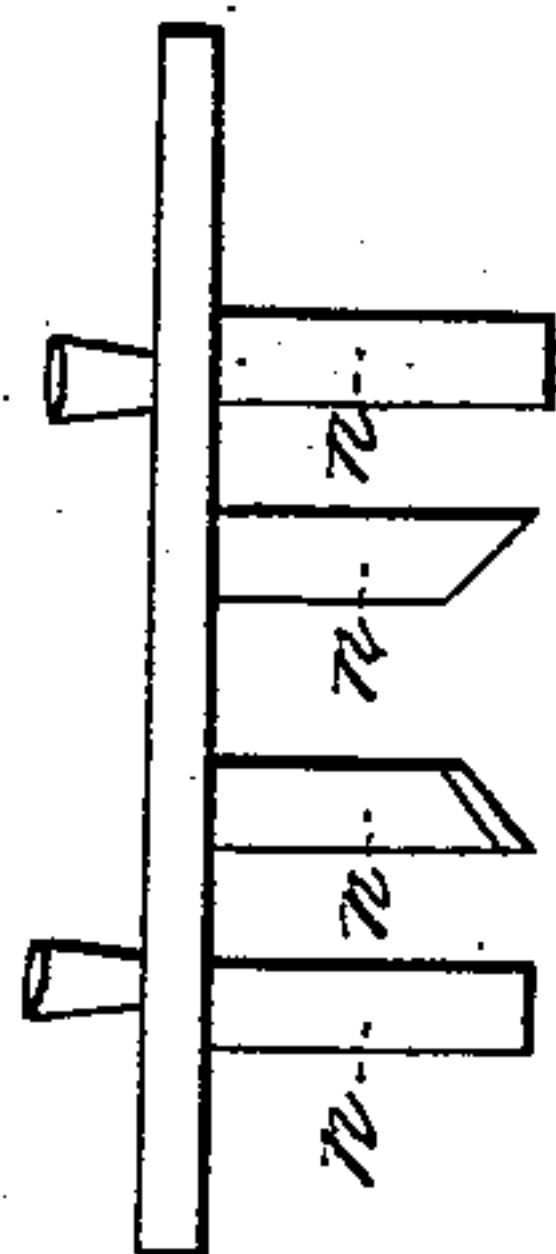


Fig. 4

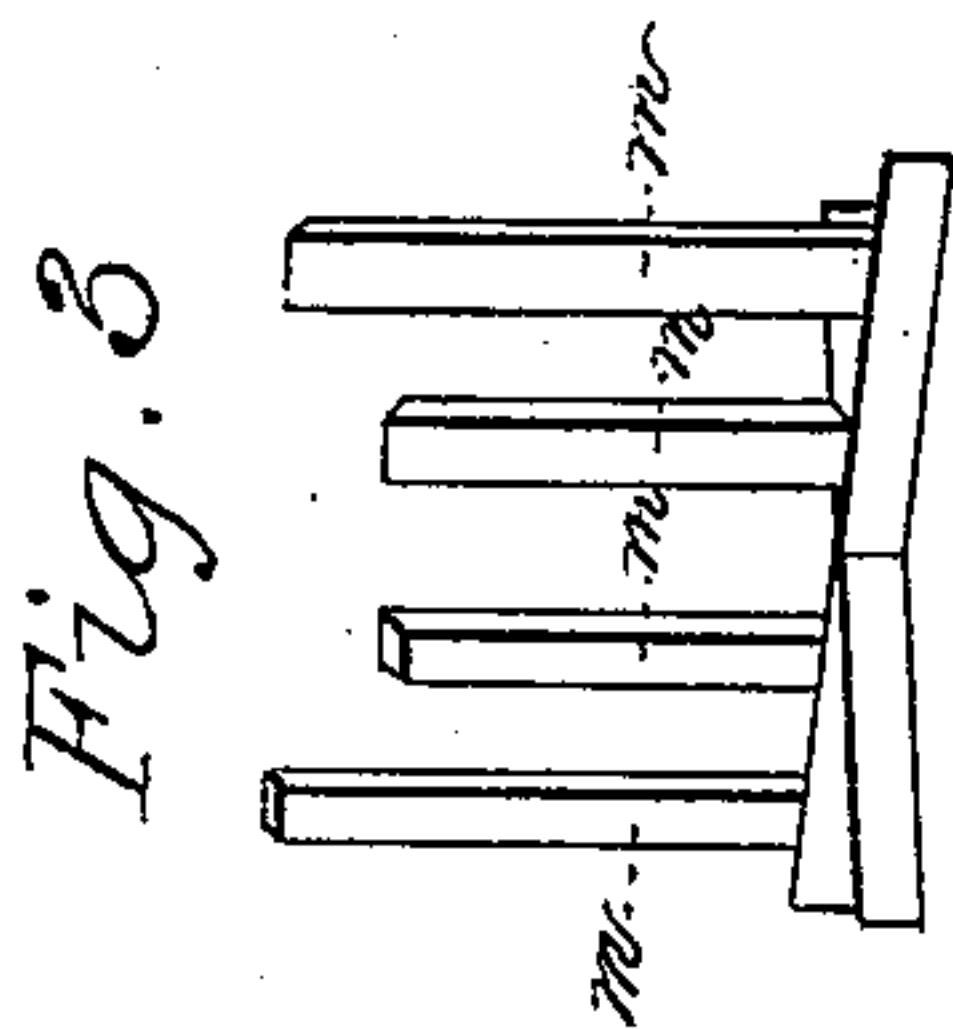


Fig. 3

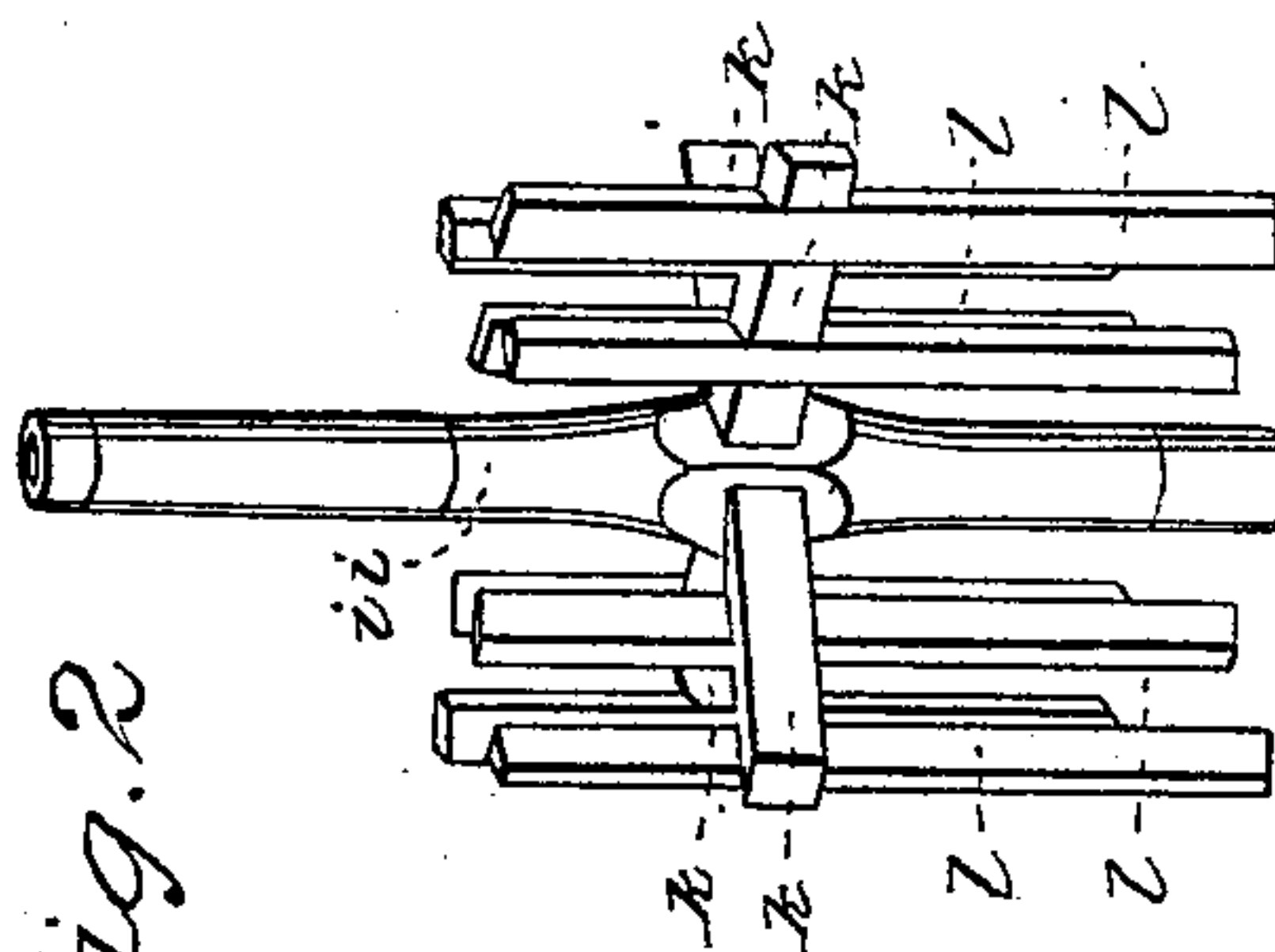


Fig. 2

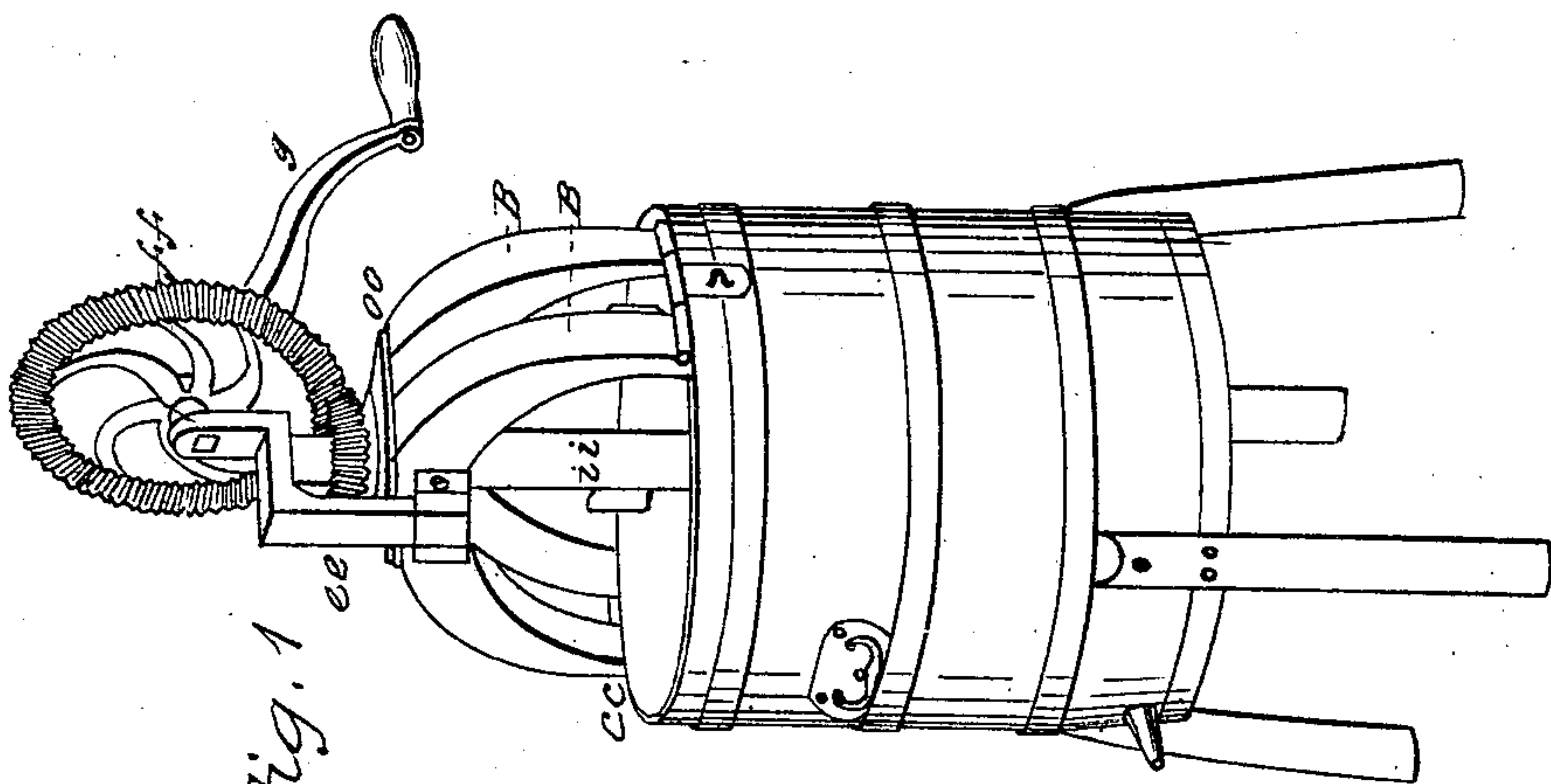


Fig. 1

Witnesses:
Edward Cray
William P. Chisti

Inventor:
Alexander Carbnow

United States Patent Office.

IMPROVEMENT IN CHURNS.

ALEXANDER CARBNOW, OF POTSDAM, NEW YORK.

Letters Patent No. 60,473, dated December 18, 1866.

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

Be it known that I, ALEXANDER CARBNOW, of Potsdam, St. Lawrence county, New York, have invented a new and improved way or mode of Churning Butter from cream or milk, and for gathering the same after being churned; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of the specification, in which—

Figure 1 is a perspective view of the churn as it appears when entire.

Figure 2 is a like view of the shaft *i i*, with the paddles *l l l l l l l l*.

Figure 3 is a like view of the breakers *m m m m*, attached to the bottom of the tub or churn.

Figure 4 is a transverse section of the cover with the breakers *n n n n*, attached to the same.

First. The tub or churn is constructed of staves or other suitable material, and of any size desirable for dairy purposes.

Second. Attached to one side of the tub or churn, and spanning the same and resting on the top of two sides thereof, are arms, *B B*, as represented in fig. 1. These arms, *B B*, are attached to one side of the tub or churn by strap hinges *c c*, or their equivalent, and on the other as in fig. 1, or other suitable fastening, and can be turned over at pleasure, leaving the top of the churn unencumbered by the arms or machinery. Attached to the arms *B B*, as represented in fig. 1, is the standard *E E*, which supports the drive-wheel *f f*, and receives the upper pivot of the pinion-wheel *h h*. The lower pivot passes through the connecting-bar *o o*, and connects with the shaft *i i*, as represented in figs. 1 and 2. The shaft *i i* passes through the centre of the cover and churn and rests on a pivot at the bottom of the tub or churn, and on which it revolves. Attached to the shaft *i i*, are four arms, *k k k k*, as represented in fig. 2. Attached to each of these arms are two paddles, *l l*, &c., as represented in fig. 2. Connected with the bottom of the tub or churn in such a manner that they can be easily removed are four breakers, *m m m m*, as represented in fig. 3. Also attached to the cover of the tub or churn are four more breakers, *n n n n*, as represented in fig. 4. The paddles, *l l l l l l l l*, as represented in fig. 2, are so constructed and arranged that when they revolve in the tub or churn they pass between the breakers *m m m m* and *n n n n*, as represented in figs. 3 and 4. The driving-wheel *f f*, and the standard *E E*, can be detached from the arms *B B*, and the said drive-wheel *f f* can then be attached to the pinion-wheel *h h*, for the purpose of working the butter when churned.

1. I claim the arms *B B*, the standard *E E*, or their equivalent, as arranged and combined with a drive and pinion-wheel, and connected with a tub or churn for the purposes herein specified.

2. I claim the arms *k k k k*, with the paddles *l l l l l l l l*, the breakers *m m m m* and *n n n n*, as represented in figs. 2, 3, and 4, or their equivalents, for the purposes herein specified.

3. I claim the peculiar arrangement of the arms *B B*, standard *E E*, the drive-wheel *f f*, the pinion-wheel *h h*, and the shaft *i i*, and their peculiar combination to and with each other for the purposes herein specified.

4. I claim the peculiar arrangement and combination of the paddles *l l l*, &c., and the breakers *m m m m* and *n n n n*, for the purposes herein specified.

5. I also claim the adjusting of the drive-wheel *f f*, to the pinion-wheel *h h*, for the purposes herein specified.

ALEXANDER CARBNOW,

Witnesses:

E. D. BROOKS,

H. M. STORY.