

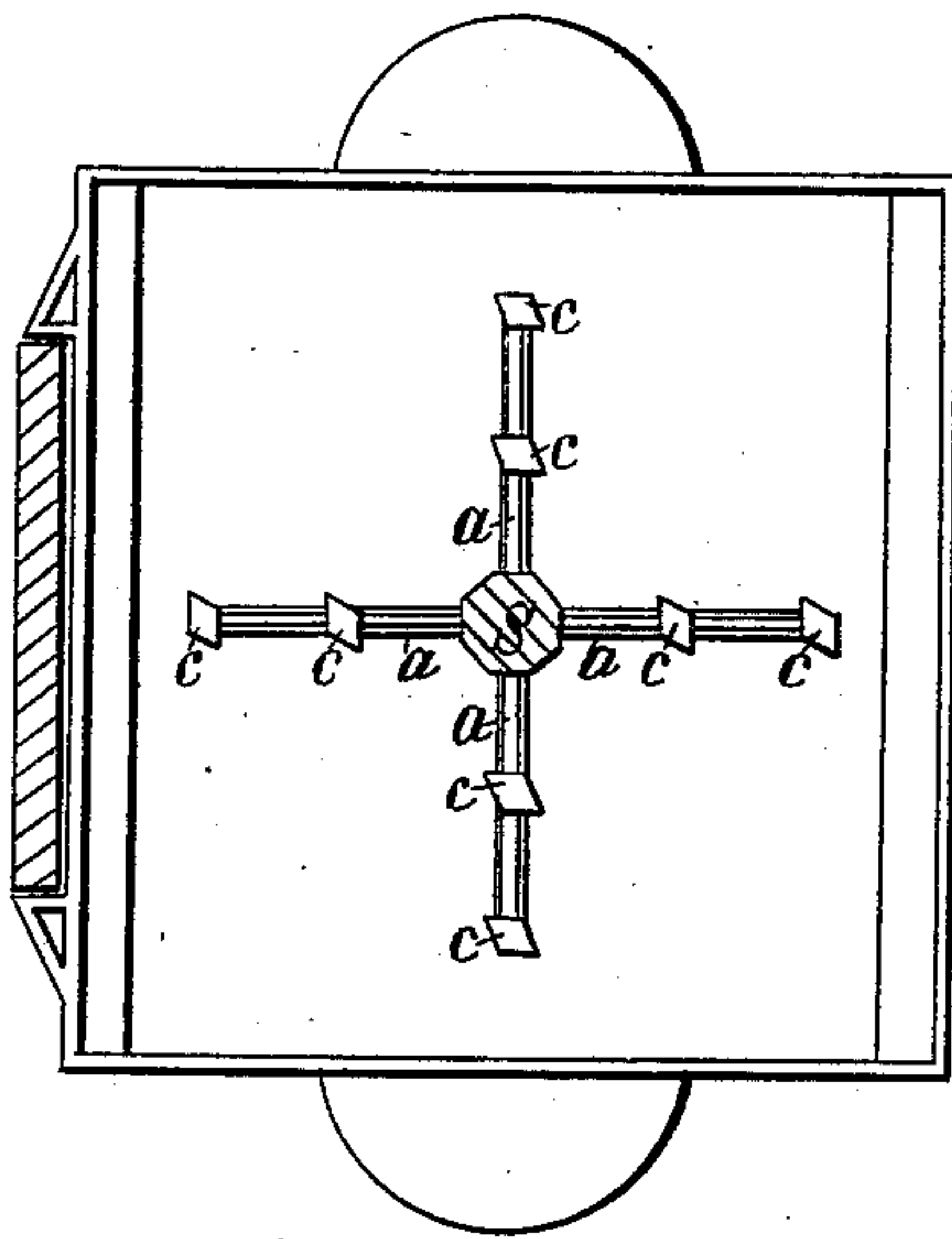
W. B. TUCKER.

Churn.

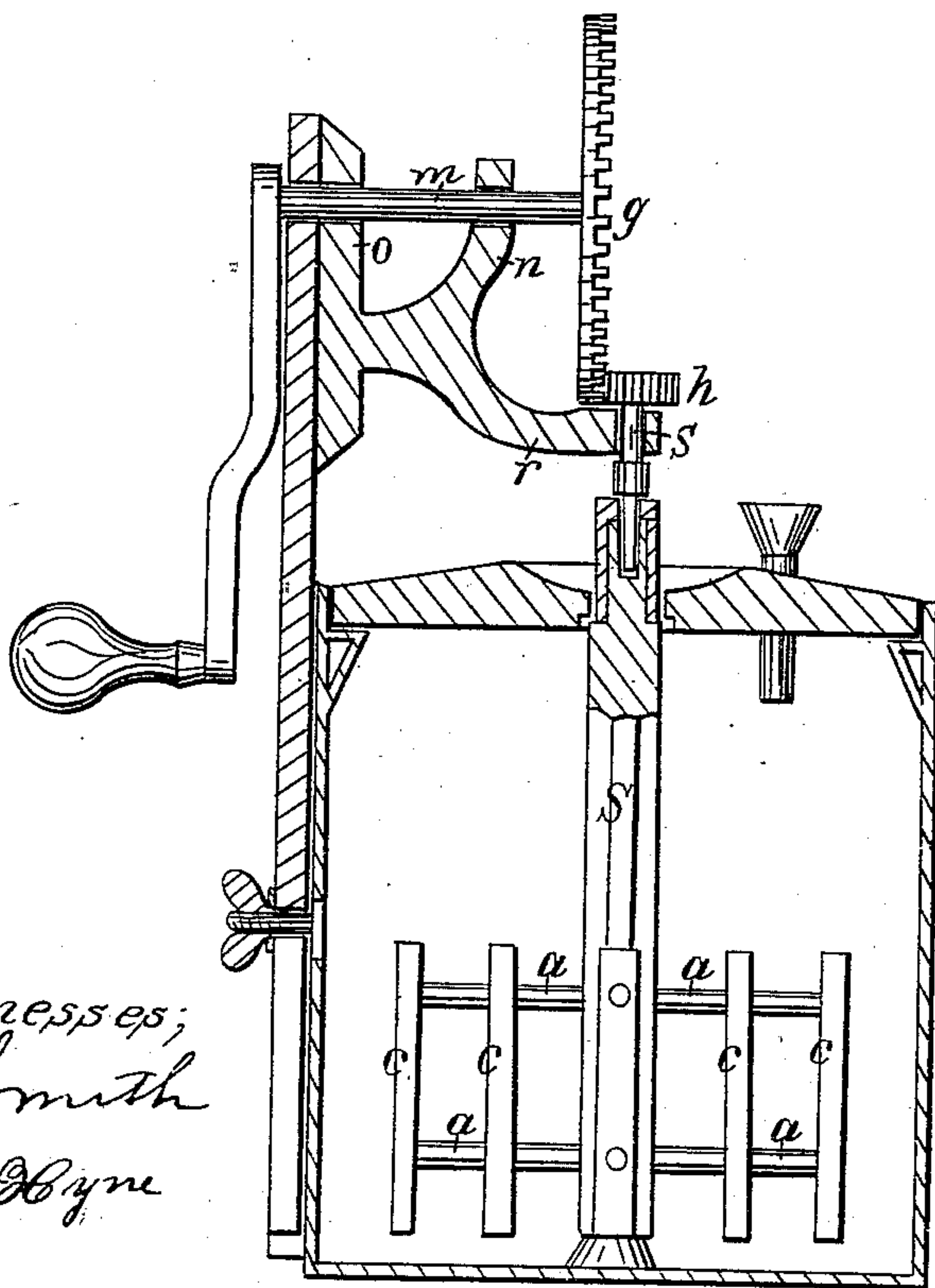
No. 84,658.

Patented Dec. 1, 1868.

*Fig. 1*



*Fig. 2*



Witnesses;  
J. L. Smith  
J. M. Byrne

Inventor;  
W. B. Tucker  
Chapman Hosmer & Co  
Atty.

# United States Patent Office.

WILLIAM B. TUCKER, OF COLUMBUS, OHIO.

*Letters Patent No. 84,658, dated December 1, 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 I, WILLIAM B. TUCKER, of city of Columbus, in the county of Franklin, and State of Ohio, have invented a new and valuable Improvement in Churns; 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 this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my churn.

Figure 2 is a view of a section of my churn-dasher.

The nature of my invention consists, mainly, in an improvement upon the revolving dasher heretofore patented to myself; and it also consists in a more perfect gearing of the parts, by which the dasher is moved, than has heretofore been known or used.

My improvement to the dasher consists in constructing the bars in the shape of a diamond, in lieu of the triangular form given in my first patent, under date of March 12, 1867.

These diamond-shaped bars are adjusted upon the arms, in the manner shown on fig. 2 of the drawings, the said arms passing through the same, as therein represented.

Upon the drawings, the arms of the dasher are marked *a*, and the bars are marked *c*.

The gearing of my churn consists of a small pinion, marked *h*, on the drawings, meshing and working with the cogs of a large cogged wheel, marked *g*.

A crank, *m*, is attached to the centre of this cogged wheel, as shown, which has its bearings in the plate *o* and the standard *p*.

An arm, *r*, extends from the plate *o* to the main shaft of the churn, marked *s*, and encircles the same in the form of a ring or staple, as represented.

This plate-standard and arm I construct of cast-iron, of one piece only, and the cogged wheel *g* and the crank-shaft are also cast in one piece.

This method of constructing the gearing greatly cheapens the cost of manufacture, without detracting in any degree from its efficiency.

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

A churn-dasher, of a diamond-form, as herein shown and described, as an improvement to my Letters Patent, bearing date March 12, 1867.

In testimony that I claim the above, I have hereunto subscribed my name, in the presence of two witnesses.

WM. B. TUCKER.

Witnesses:

A. B. DUNBAR,  
R. D. DUNBAR.