

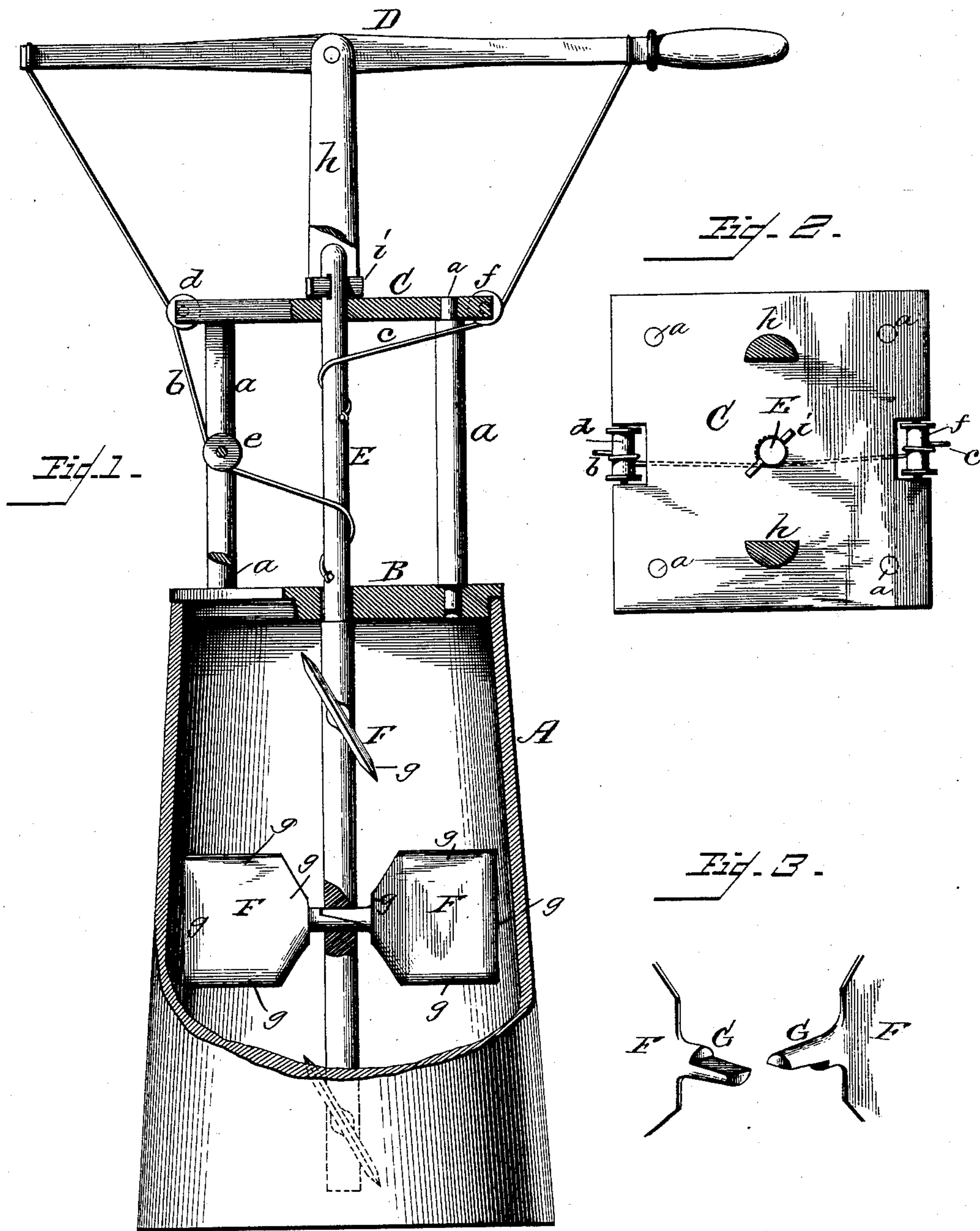
(No Model.)

M. F. VERNON & O. L. REEVES.

CHURN DASHER.

No. 363,779.

Patented May 24, 1887.



Witnesses  
*Wm. Shelden.*  
*L. L. Miller.*

Inventors  
*Marion F. Vernon.*  
*Oscar L. Reeves.*  
By *their* Attorney  
*Chas. H. Fowler*



# UNITED STATES PATENT OFFICE.

MARION F. VERNON AND OSCAR L. REEVES, OF ELDON, MISSOURI.

## CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 363,779, dated May 24, 1887.

Application filed August 14, 1886. Serial No. 210,029. (No model.)

*To all whom it may concern:*

Be it known that we, MARION F. VERNON and OSCAR L. REEVES, citizens of the United States, residing at Eldon, in the county of Miller and State of Missouri, have invented certain new and useful Improvements in Churn-Dashers; and we do hereby declare that the following is a full, clear, and exact description 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 side elevation of our invention, partly in section; Fig. 2, a top plan view with the operating-lever removed, and Fig. 3 a detail view in perspective, showing the two adjoining shanks of the dasher-blades.

This invention relates to certain new and useful improvements in churn-dashers; and it consists in the peculiar combinations and the construction and arrangement of parts, all as more fully hereinafter described and claimed.

In the accompanying drawings, A represents the churn-cylinder provided with a suitable cover, B, and above this cover, supported by posts *a*, is a table, C. The posts *a*, cover B, and table C may be disconnected from each other for cleaning or for other purposes. The cord *b* is connected to one end of a pivoted hand-lever, D, and extends down and around a pulley, *d*, and thence down and around a similar pulley, *e*, and has its end connected to the dasher-shaft E at a point immediately above the cover B. The cord *c* is connected to the handle end of the lever D, and passes down and around a pulley, *f*, thence down, and has its end connected to the dasher-shaft above the point of attachment of the cord *b*. The pulleys *d* *f* are suitably connected to the opposite edges of the table C, and the pulley *e* is connected between the posts *a*. The lever D is pivoted between standards *h*, and by working said lever the dasher-shaft will have imparted to it a rotary reciprocating motion by means of the cords *b* *c*. The dasher-shaft E passes up through the cover B and table C, the latter forming a guide for the up-

per extremity of the shaft, said shaft being held suspended within the churn-cylinder by means of the key *i*. The dasher-blades F have rabbeted shanks G, the shanks of each pair of dasher-blades, when together, forming a continuous round shank, as shown in Fig. 1, thereby enabling the shanks to pass entirely through the dasher-shaft, and having each pair of blades on the same horizontal plane, while said blades can be readily detached and removed. The blades are beveled at each side on their four edges, as shown at *g*, so as to render them more effective in agitating the cream.

Although this construction and form of dasher-blades are considered the most practical, any well-known form of blade may be substituted for that shown without departing from the principle of our invention.

We are aware that a dasher-stem has been provided with pins passed through openings therein, on which pins were sleeved the cylindrical shanks of the dashers, and disclaim such construction, limiting ourselves to our particular construction, wherein the rabbeted shanks are deemed specially important, for reasons above pointed out.

Having now fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, with the dasher shaft E, provided with transverse apertures, of the dasher-blades F, having rabbeted shanks G, said blades being arranged in pairs, the shanks of each pair passing entirely through the apertures in the dasher-shaft and forming a continuous round shank, whereby the said blades are brought upon the same horizontal plane, substantially as described.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

MARION F. VERNON.  
OSCAR L. REEVES.

Witnesses:

E. B. SMITH,  
JAMES McCABE.