

George Groom's Imp<sup>d</sup> Churn.

117070

PATENTED JUL 18 1871

Fig. 1.

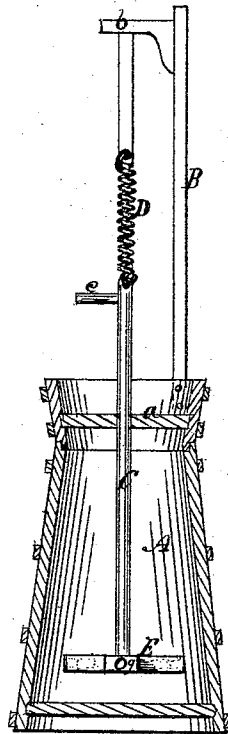
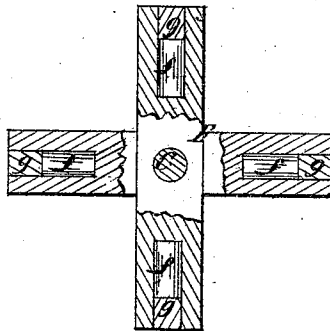


Fig. 2.



Witnesses,  
*R. W. Smith*  
*Charles Rogers*

George Groom,  
 By his attorney,  
*J. S. Brown.*

# UNITED STATES PATENT OFFICE.

GEORGE GROOM, OF BROCKVILLE, CANADA, ASSIGNOR TO MARTIN M. REYNOLDS, OF SYRACUSE, NEW YORK.

## IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 117,070, dated July 18, 1871.

### *To all whom it may concern:*

Be it known that I, GEORGE GROOM, of Brockville, county of Leeds, in the Province of Ontario, Canada, have invented an Improved Churn; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making part of this specification—

Figure 1 being a central vertical section of a churn constructed with my improvement; Fig. 2, a horizontal section through the dasher.

Like letters designate corresponding parts in both figures.

Let A represent the body of a dasher-churn, and *a* its cover. To the top of the churn-body is attached an upright standard, B, at one side, and this has an arm, *b*, projecting from its upper end inward over the center of the churn. The dasher-rod C is suspended from the arm *b* by a spiral spring or elastic cord, D. A handle, *c*, may project from the upper end of the dasher-rod. In connection with this elastically-suspended dasher-rod I employ a dasher, E, weighted in a peculiar manner, as follows: The dasher, in its

simplest form, is composed of two cross-pieces of wood, say two inches square. In the ends of these pieces holes are bored, say an inch in diameter, and to the depth of three or four inches, more or less. Into each of these holes is placed a weight, *f*, of lead or iron, about a pound in weight, for a churn of ordinary size. The open end of each hole is then tightly stopped with a wooden plug or cork, *g*, thus keeping the metallic weights entirely out of contact with the cream.

The weighted dasher, thus made, acting in connection with the suspending-spring D, greatly lightens the labor of churning and acts most efficiently.

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

The dasher E, weighted and plugged, substantially as described, in combination with the suspending-spring D, as and for the purpose herein specified.

GEORGE GROOM.

Witnesses:

W. B. PHILLIPS,  
D. M. CHAPIN.