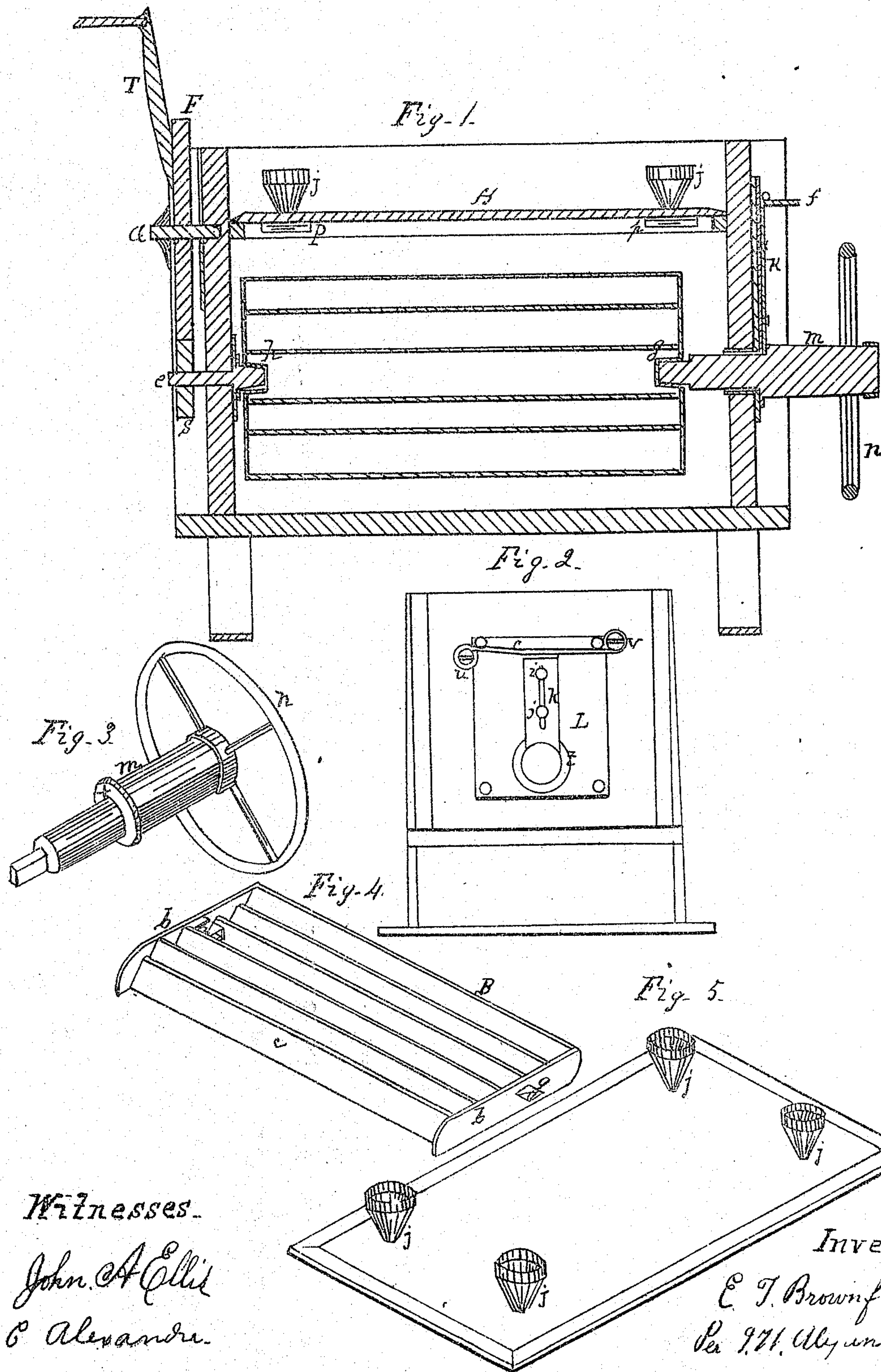


E. T. Brownfield.

Churn.

N^o 75621

Patented Mar. 17, 1868



Witnesses.

John A. Ellis
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Inventor.

E. T. Brownfield
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United States Patent Office.

EUGENE T. BROWNFIELD, OF SMITHFIELD, PENNSYLVANIA.

Letters Patent No. 75,621, dated March 17, 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, EUGENE T. BROWNFIELD, of Smithfield, in the county of Fayette, and State of Pennsylvania, have invented certain new and useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 represents a vertical longitudinal section of my churn.

Figure 2 is an end elevation of the same.

Figure 3 is a perspective view of the adjustable axle and balance-wheel.

Figure 4 is a perspective of the dasher.

Figure 5 is a perspective of the top of the churn.

The letter A represents the frame of my churn, which is rectangular in form. B represents the dasher, which consists of a series of slats *c* inserted in the head pieces *b* in an oblique position, as seen in fig. 4. *g* and *h* designate two metal sockets, one of which is attached to each of the head pieces *b*. The socket *g* receives the square end of axle *m*, on which is placed the balance-wheel *n*. Into the socket *h* is inserted the end of the axle *e*, to which the pinion *s* is attached. F represents the driving-wheel, which plays on axle *G*, the said axle being securely fastened to the end of frame A. The wheel F gears into pinion *l*, and thus gives motion to dasher B. In order that the dasher B may be removed at pleasure for the purpose of being cleaned, the axle *m* can be removed in the following manner: The axle *m* is provided with the shoulder *t*, the said shoulder being intended to bear against the metal plate L, as seen in fig. 2. In order to keep the axle *m* in a horizontal position when in motion, the slide K is provided, the said slide being made concave at its lower end, so as to fit the surface of axle *m*, and bent outward at top, as shown by letter *f*, fig. 1. It will be observed that the slide *k* has a longitudinal slot in it, so as to admit of a vertical play under the knobs *i i*. In order to keep the slide in position when its lower end is pressing on axle *m*, the rod *c'* is provided, one end of said rod being looped on a bolt, *u*, and the opposite end slipped under the bolt *v*; the middle of said rod pressing on the top of slide *k*, will hold it in its place. When it is desired to remove the axle *m*, the rod *c'* can be slipped from under bolt *v*, the slide *k* raised, and the axle *m* removed. H represents the adjustable top of my churn, which is furnished with the funnels *j*, intended to admit the air into the interior of the churn. In order to prevent the mouth of said funnels from being obstructed by the cream or butter, the shields P are provided, as shown in dotted lines in fig. 1.

My churn is operated by crank T, which is fastened to driving-wheel F.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The top, H, when provided with the funnels J J J J and shields P P P P, substantially for the purpose set forth.
2. Dasher B, constructed with oblique slats, substantially as herein described.
3. The dasher B, in combination with axles *m* and *e*, slide *k*, and lever *c'*, the whole constructed and arranged substantially as specified.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

EUGENE T. BROWNFIELD.

Witnesses:

THOMAS WILLIAMS,

H. B. MATHIOT.