G. H. SANBORN.

Churn.

No. 57,573. Patented Aug. 28, 1866.

Fig. 1.

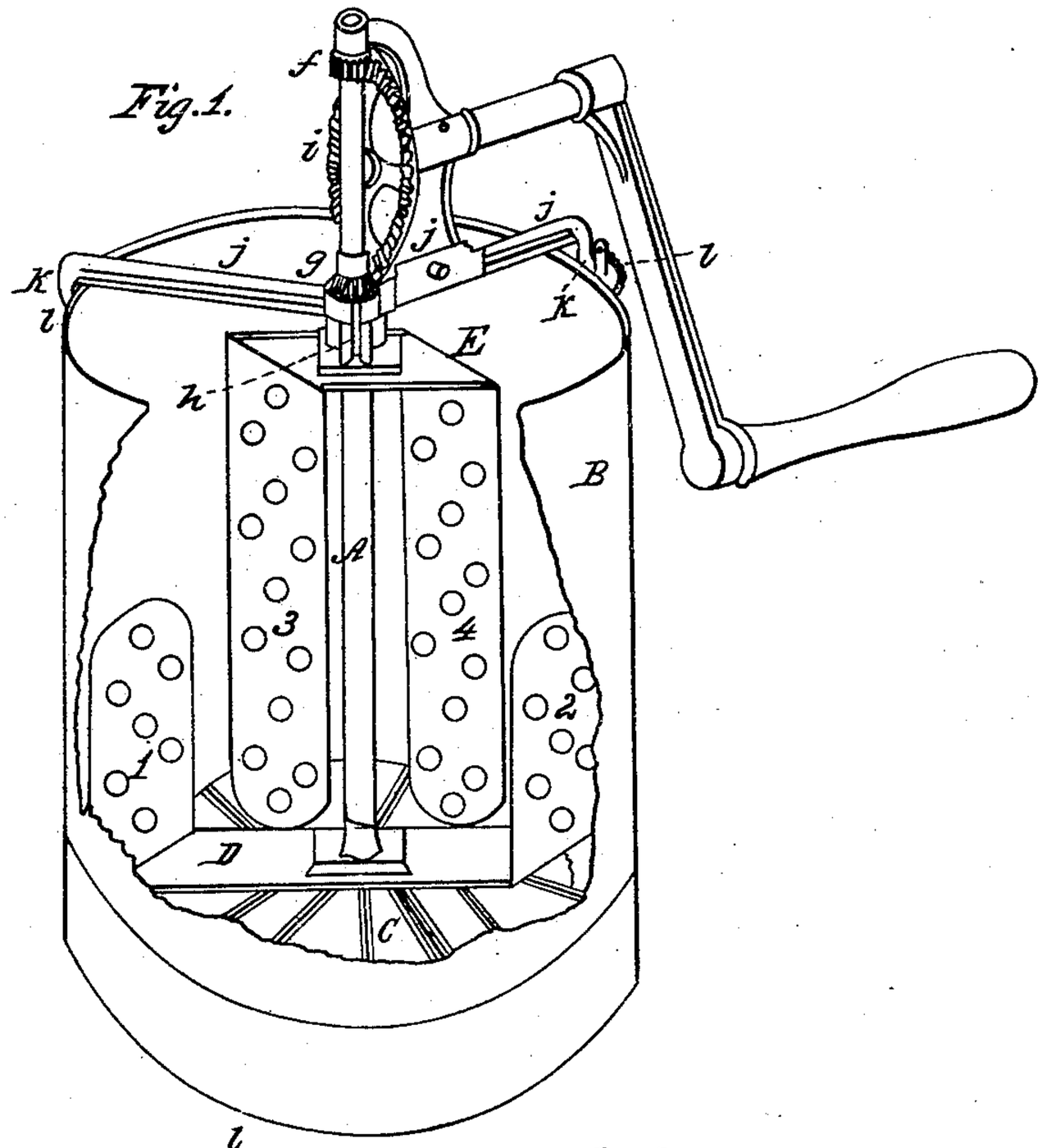
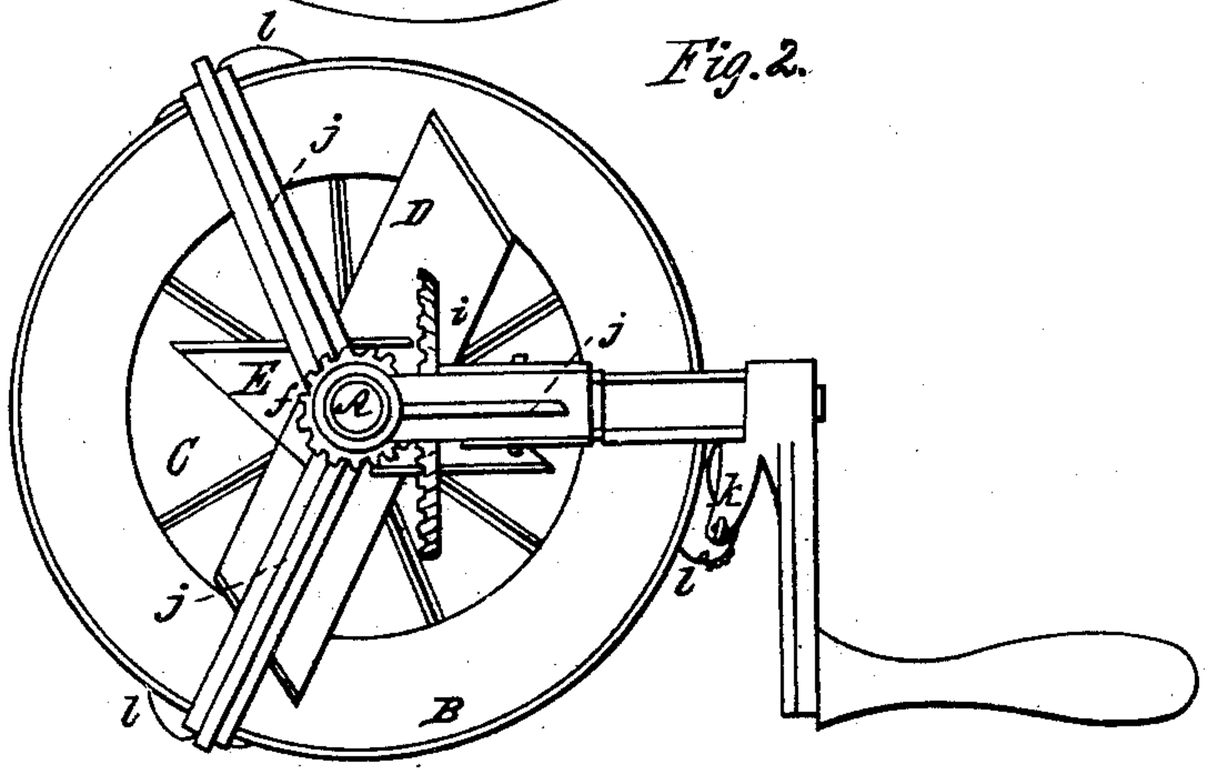


Fig. 2.



Witnesses:

Daniel C. Calby

Inventor:

George H. Sanborn

UNITED STATES PATENT OFFICE.

GEO. H. SANBORN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **57,573**, dated August 28, 1866.

To all whom it may concern:

Be it known that I, GEORGE H. SANBORN, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Churns; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawings which accompany and form a part of this specification, in which—

Figure I is a perspective view with the front of the cream-box broken away, so as to expose the interior parts; Fig. II, a plan view looking down upon the churn from above.

Letter A represents a shaft standing in the center of the cream-box B; B, cream box or body of the churn; C, a truck, about two-thirds of the diameter of the box B, and secured to the shaft A near to the bottom of the churn, as shown in Fig. I; D, a narrow strip lying across the truck C with its two ends 1 and 2 turned up, as in Fig. I, with their faces turned to an angle of about forty-five degrees to the line of motion given to them by the revolution of the shaft A, and as may be seen in Fig. I; E, a bar, a little less in length than D, fastened to a ferrule turning on the shaft A, and having on its ends the two pendent floats 3 and 4, and arranged as seen in Fig. I; *f*, a small wheel attached to the shaft A; *g*, another small wheel, attached to the ferrule *h*; *h*, ferrule on the shaft A; *i*, a third wheel, meshing into the teeth of the wheels *f* and *g*; *j*, frame to support the shaft A upright in the body of the churn; *k k k*, small arms on the ends of the arms *j*; *l l l*, projections on the sides of the body of the churn, beneath which the small arms *k k k* pass and keep the frame *j* in place.

The object of arranging the floats 1 and 2 and 3 and 4 as shown is to remove an objection constantly urged against this style of churn—viz., the great tendency of the cream toward the circumference of the cream-box B.

The effect of the floats 1 and 2 and 3 and 4, the one set moving in one direction and the other set in the opposite direction, is to force the cream toward the center of the churn, and thus remove the above-mentioned objection.

Furthermore, the butter will be gathered to the center about the shaft, and, by the aid of the truck C, may be readily taken from the churn. The truck C, having the bar D across its surface, and having its upper and lower surface more or less corrugated, will produce more or less friction on the cream, and thus add much to the efficiency of the churn.

I do not claim the two frames revolving in opposite direction; but

I do claim as my invention and desire to secure by Letters Patent—

The arrangement of the two sets of floats 1 and 2 and 3 and 4 in the manner and for the purposes set forth, when combined with the truck C, the shaft A, and the cream-box B, as shown and set forth, as also the use of the arms *k k k* and the projections *l l l*, when arranged and used as shown.

GEORGE H. SANBORN.

Witnesses:

D. C. CULLEY,

WM. H. WARNE.