

GROVER & WRIGHT.

Churn.

No. 36,147.

Patented Aug. 12, 1862.

Fig. 1.

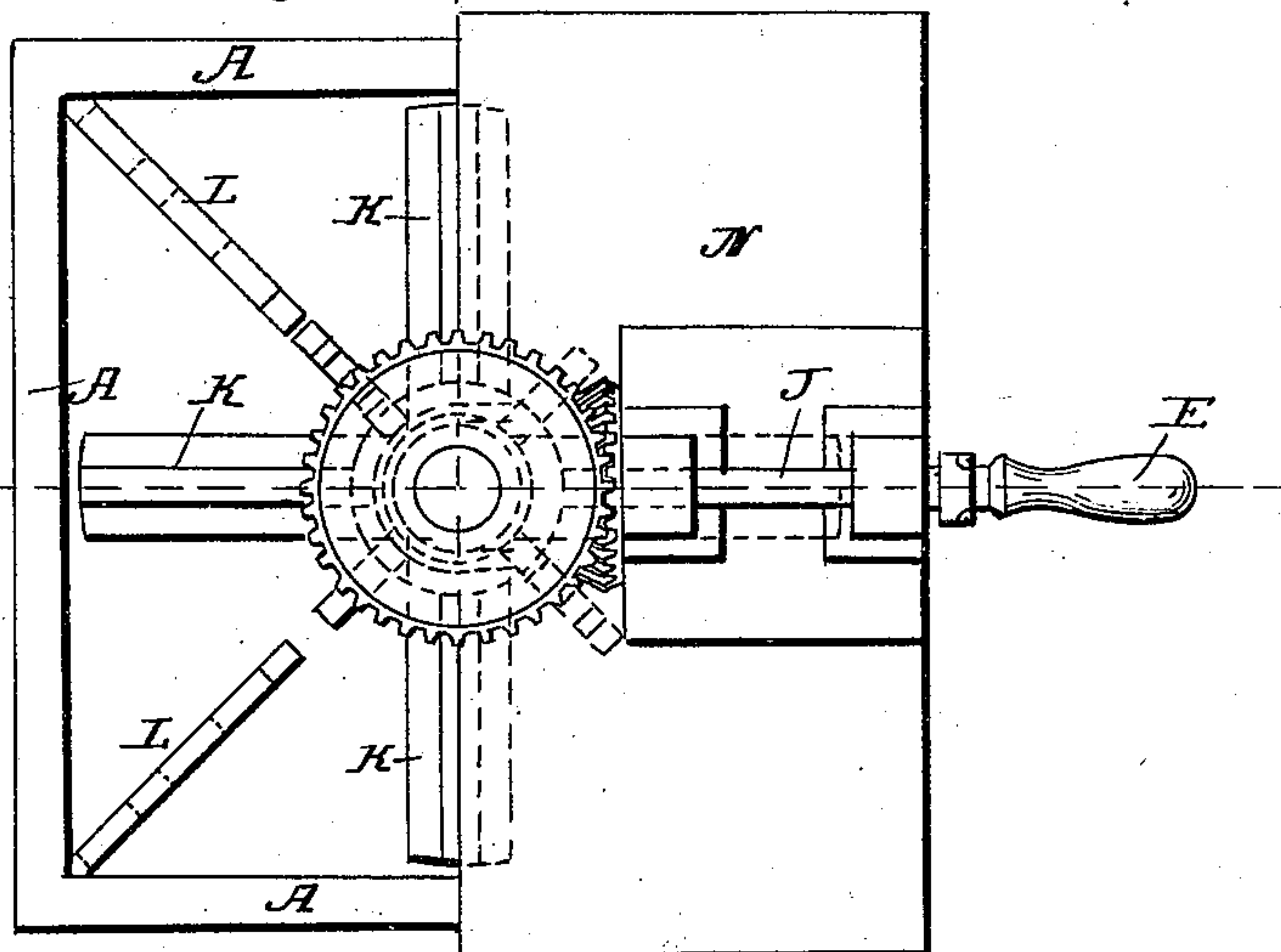
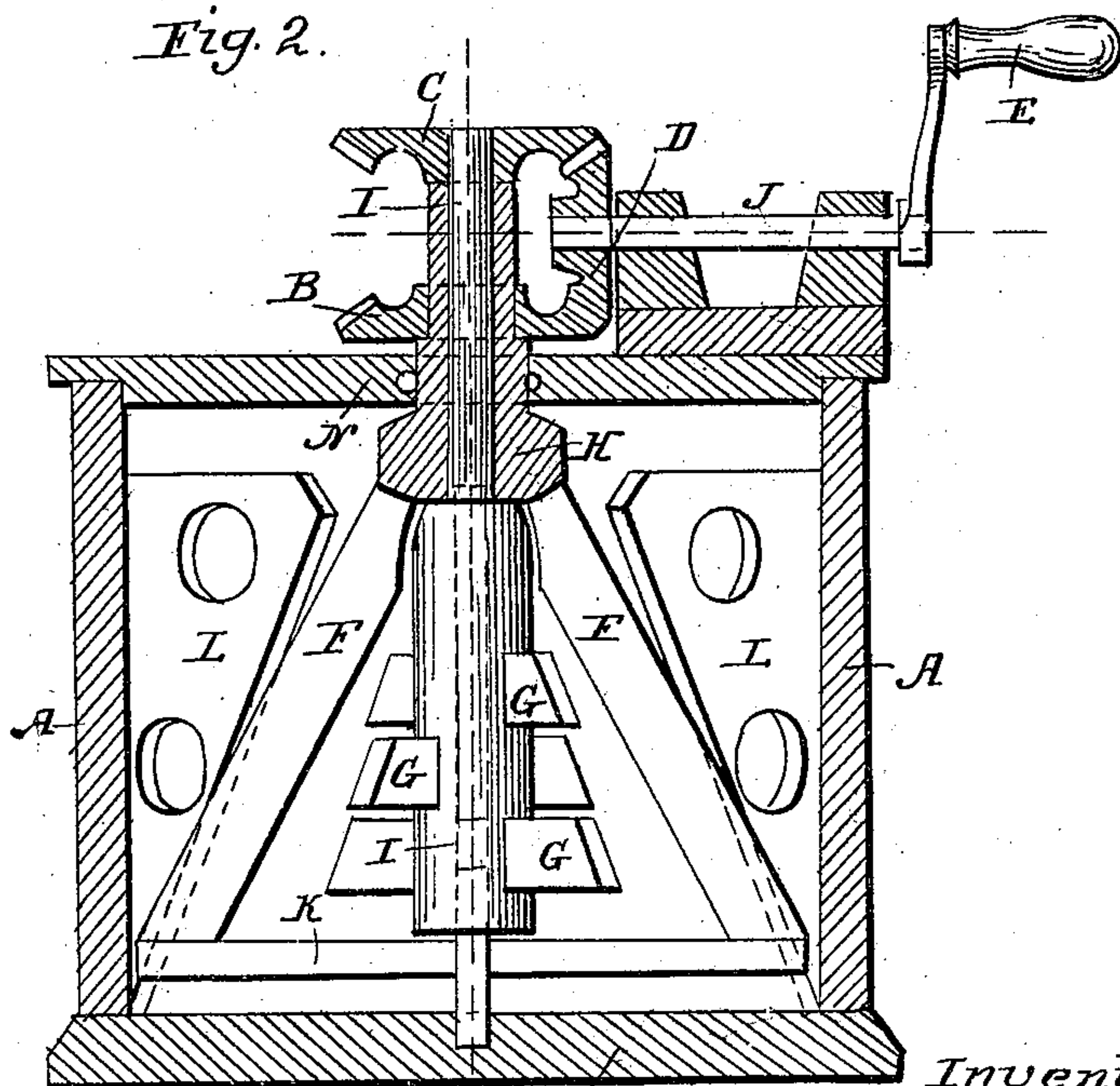


Fig. 2.



Inventors:

Luther S Wright
Dem. & Grover

UNITED STATES PATENT OFFICE.

DEMAS L. GROVER AND LUTHER S. WRIGHT, OF GROTON, NEW YORK.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **36,147**, dated August 12, 1862.

To all whom it may concern:

Be it known that we, DEMAS L. GROVER and LUTHER S. WRIGHT, of Groton, in the county of Tompkins and State of New York, have invented a new and useful Improvement in Churns; and we 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, in which—

Figure 1 is a top view, with half of the cover removed. Fig. 2 is a section.

We construct the body of our churn in a square form, as shown at A, Figs. 1 and 2.

B, C, and D are miter or bevel gears for operating the churn by means of the crank E. The gear B is fastened firmly on the hollow shaft H, just above the bearing in the cover N. The gear C is affixed to the upper end of the shaft I, the shaft I having its upper bearing in the center of shaft H, through which it passes. The lower end has its bearing in the center of the bottom of the churn. The gear D is made fast to the crank-shaft J, and engages the teeth B and C, turning them in opposite directions.

F and G are conical revolving beaters, F being attached to the lower end of the shaft H and to the frame K at the lower end of shaft

I. The beaters G are attached to the shaft I, and running inside of F and in a contrary direction. L are stationary beaters placed in the corners of the churn, being wider at the upper ends, to correspond with the conical shape of the beaters F.

Operation: The cream being placed in the churn, turn the crank moderately in either direction, and the cream will be violently agitated at the bottom of the churn by the revolving and stationary beaters, and gradually less violent to the upper surface of the cream, when the butter rises and is readily gathered by the moderate agitation of the surface.

We do not claim any of the parts separately considered; but

What we claim, and desire to secure by Letters Patent, is—

The combination of the revolving conical beaters F and G (running in opposite directions) with the stationary beaters L, placed in the corners of a square churn, as and for the purposes described.

DEMAS L. GROVER.
LUTHER S. WRIGHT.

Witnesses:

LYMAN PERRIGO,
CHARLES PERRIGO.