H. L. WELLS.

Improvement in Rotary Churn Dashers.

No. 122,505. Patented Jan. 2, 1872.

Fig. 1.

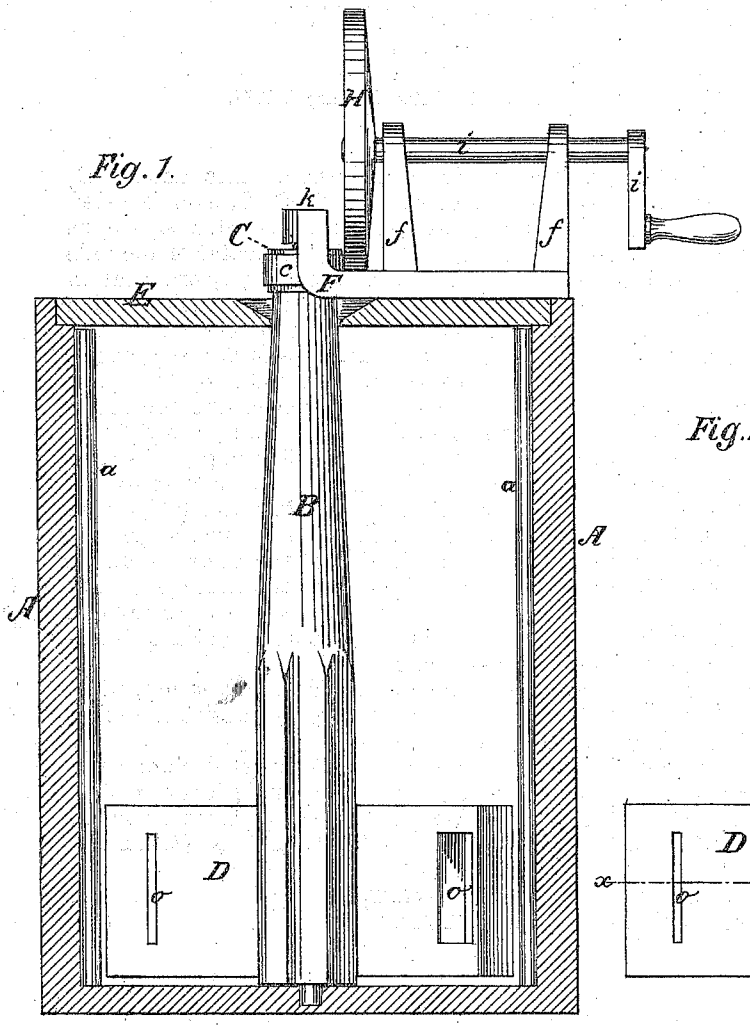


Fig. 2.

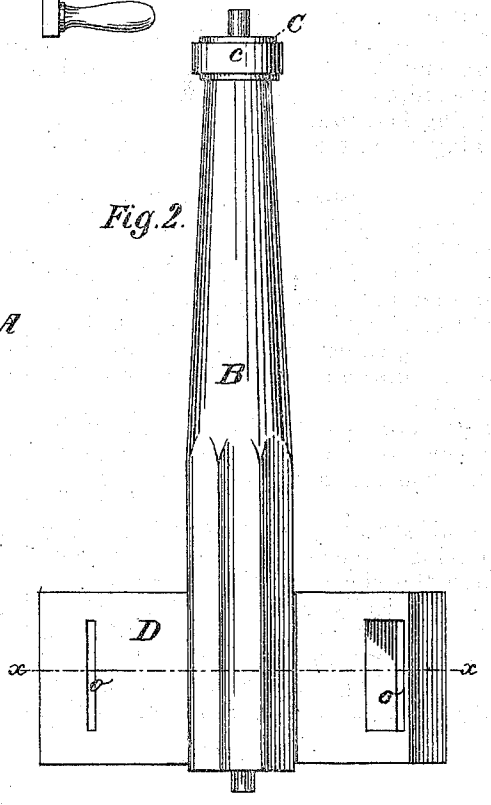
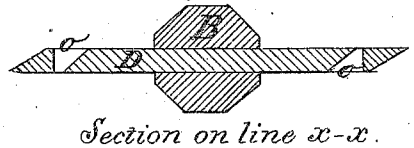


Fig. 3.



Section on line x-x.

Witnesses:

Fred. Arto's

N. Evans.

Inventor:

Harvey L. Wells

by his attys:

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UNITED STATES PATENT OFFICE.

HARVEY L. WELLS, OF OQUAWKA, ILLINOIS.

IMPROVEMENT IN ROTARY CHURN-DASHERS.

Specification forming part of Letters Patent No. 122,505, dated January 2, 1872.

To all whom it may concern:

Be it known that I, HARVEY L. WELLS, of Oquawka, in the county of Henderson and State of Illinois, have invented a new and useful Improvement in Churns, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing making a part of this specification, in which—

Figure I is a perspective view of my churn, with the sides broken away to show the shaft, ribs, and dasher, inside. Fig. II is the shaft, dasher, and roller detached. Fig. III is a section of dasher and shaft on line *x x*.

The object of my invention is to produce in churning the greatest and most thorough agitation of the cream at each revolution of the churn-dasher.

To enable others skilled in the art to make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing, A is the casing of my churn, having five or more sides. In the angles where the sides join I place the ribs *a a a*, running vertically from the bottom of the churn to the top, for the purpose of aiding in the agitation of the cream. B is the shaft, and has its lower bearing in the bottom of the churn. At its top is a small roller, C, covered with a coating of India rubber, *c*. The dasher D, which traverses the shaft B, has beveled ends, and near each end a beveled slot, *o*, as shown in Fig. II. This particular shape aids very materially in the breaking up or agitation of the cream, and in conjunction with the ribs *a a* performs its work very effectually. The top of the churn E is made in two sections, a hole at the center allowing the shaft to pass through it. To one section of the top is attached a frame, F, having standards *f f* and bearing *k* for the shaft. Through the standards *f f* work a shaft, *i'*, with a crank, *i*. This crank *i* and shaft *i'* work a wheel, H, whose face bears against the rubber-covered periphery of the roller C. When the crank *i* is turned and the wheel H revolves the friction against the roller C is such as to cause it to revolve and turn the shaft and dasher, and the churning process commences.

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

The dasher D with its beveled slots *o* and beveled ends, in combination with the shaft B and ribs *a a*, as and for the purpose set forth.

HARVEY L. WELLS.

Witnesses:

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T. C. EVANS.

(45)