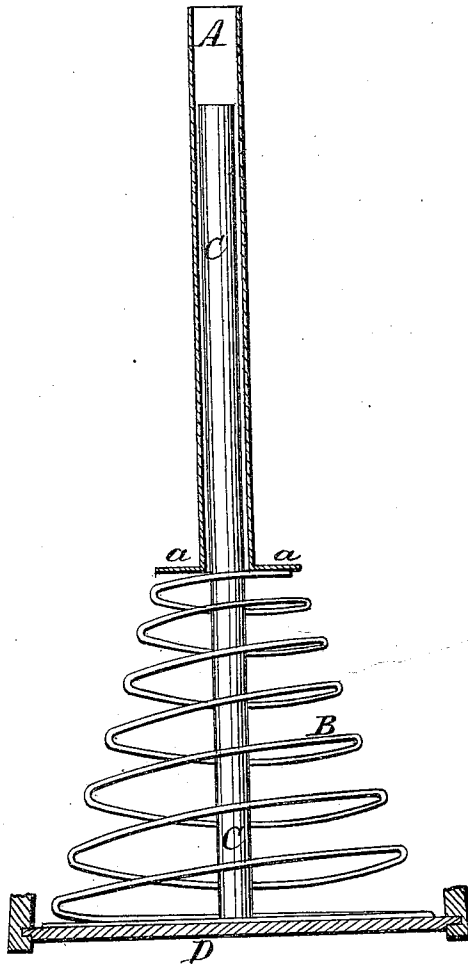


*F. Bosom,*

*Churn Dasher.*

*No. 98,221.*

*Patented Dec. 28. 1869.*



*Witnesses*

*L. F. Everts.*

*Jas. J. Day.*

*Inventor.*

*Francis Bosom.*

*Per attorney*

*Wm. Sprague.*

# United States Patent Office.

FRANCIS BOSOM, OF ST. LOUIS, MICHIGAN, ASSIGNOR TO HIMSELF AND  
JOHN W. TACKABURY, OF SAME PLACE.

Letters Patent No. 98,221, dated December 28, 1869.

## IMPROVEMENT IN CHURN-DASHER

The Schedule referred to in these Letters Patent and making part of the same.

### To whom it may concern:

Be it known that I, FRANCIS BOSOM, of St. Louis, in the county of Gratiot, and State of Michigan, have invented a new and useful Improvement in Churn-Dashers; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention relates to an improved method of constructing and operating churn-dashers; and consists in forming the dash of a single piece of spring wire, bent and coiled in the form of a truncated cone, and attached to the lower end of a tubular dash-rod; also, in connection therewith, the employment of a metallic tube or cylinder, open at the top, and of less diameter than the dash-rod, which is sleeved over it.

The cylinder rests on the bottom of the churn, and is filled with a warm or cold fluid, to bring the cream being churned to the proper temperature.

In the drawings—

A represents the dash-rod, constructed in tubular form, of any suitable metal, and provided at its lower end with a flange, *a*.

B is the dash, formed of a piece of spring wire, spirally bent or coiled to the shape of a truncated cone, and secured at its apex to the flange *a* of the dash-rod.

C is a tube or cylinder of metal, open at its top, and provided with a flange or base, (not shown in the

drawings,) by which it is supported in an upright position on the bottom D of the churn. Its external diameter is less than the internal diameter of the dash-rod.

The operation of this improvement is as follows:

The churn is filled with a sufficient amount of cream. The cylinder C is then placed in the churn. If the temperature of the cream is too low, the cylinder is filled with warm water to bring its temperature to the desired point. If too high, cold water may be used. The dasher is then introduced, by sleeving its handle on the cylinder, and is operated in the old way.

The dash B, as it strikes the bottom of the churn, compacts and brings together its coils, and as the rod is lifted, they again expand, producing a great agitation in the cream, breaking up its globules, and thus render the separation of the particles of butter a task of easy and quick accomplishment.

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

1. The spirally-coiled metallic dash B, constructed substantially as described.

2. In combination with a dash B, secured to a hollow dash-rod A, the employment of a cylinder, C, on which said rod is sleeved, for containing a liquid for regulating the temperature of the cream in the churn, substantially as described.

FRANCIS BOSOM.

Witnesses:

JAS. I. DAY.

SAML. S. MARR.