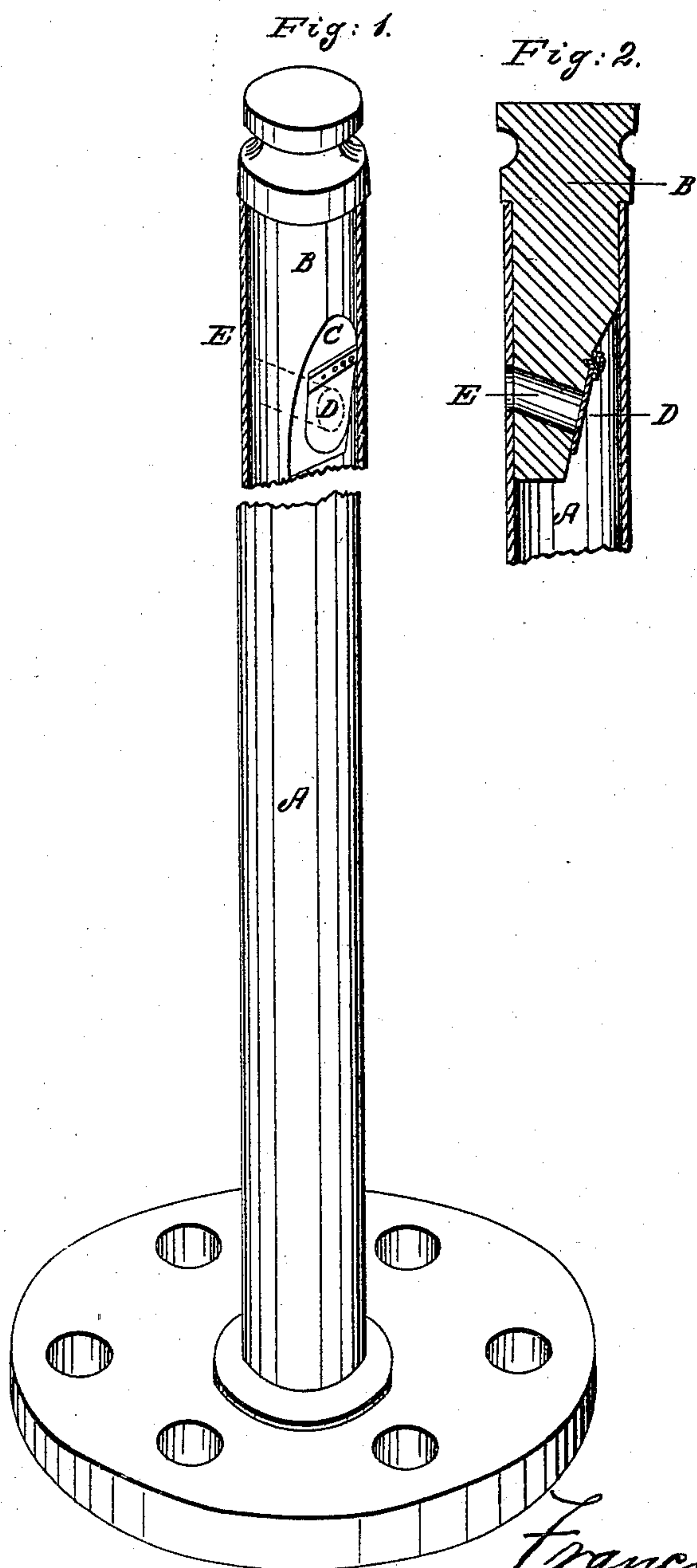


F. DANZENBAKER.

Churn Dasher.

No. 58,228.

Patented Sept. 25, 1866.



Inventor:

Francis Danzenbaker.  
by  
D. P. Holway & Co  
his attys.

Witnesses:

Elflausen  
Lawrence Chlevyky

# UNITED STATES PATENT OFFICE.

FRANCIS DANZENBAKER, OF BRIDGETON, NEW JERSEY.

## IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 58,228, dated September 25, 1866.

*To all whom it may concern:*

Be it known that I, FRANCIS DANZENBAKER, of Bridgeton, in the county of Cumberland and State of New Jersey, have invented a new and useful Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is partly in perspective and partly a vertical section, and Fig. 2 is a vertical section.

The same letters are employed in referring to identical parts.

The dasher of the churn is applicable to the common churn. A is the handle, which is hollow, being made of a metallic or other tube, open through its entire length. The upper end of this tube is closed by a stopper, B, fitting the same. This stopper is cut away on one side at its lower end, as shown at C, the lower part of the face being vertical, or nearly so. An opening, E, passes through the stopper from the flat portion C, on which is attached the flap-valve D, of india-rubber or other suitable material. There is a hole, corresponding to this opening E, through the case of the tubular dasher A. When these openings are in conjunction the air can pass from the outside through the valve D into the hollow portion of the tube, and thence downward into the cream below the dasher. This will occur whenever the dasher is raised, as a partial vacuum would then be created below the center of the dasher, causing the air to flow

in from the outside. When the dasher descends the air is pressed against the valve, which prevents its escape, and it is thus forced through the cream, adding to its agitation and facilitating the production of the butter. This proves beneficial to a certain stage only in the production of the butter. After this the introduction of the air is not only not beneficial, but positively injurious. It becomes necessary then to exclude the air. This is done by simply turning the stopper until the opening E is not opposed to the corresponding hole in the case of the tube A, when the air is completely excluded by the stopper B, which fits closely to the inside of the tube to a point below the opening. The work is then completed as in the ordinary churn. The same effect may be produced by using a perforated cap over the tube instead of a stopper within it.

I do not claim the use of air introduced through the dasher and regulated by a valve, for that I know has been done by others; but

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

The combination of the tubular handle A, adjustable stopper B, or its equivalent, and valve D, when constructed and arranged to operate substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS DANZENBAKER.

Witnesses:

O. LONG,

JAS. R. HOAGSAND.