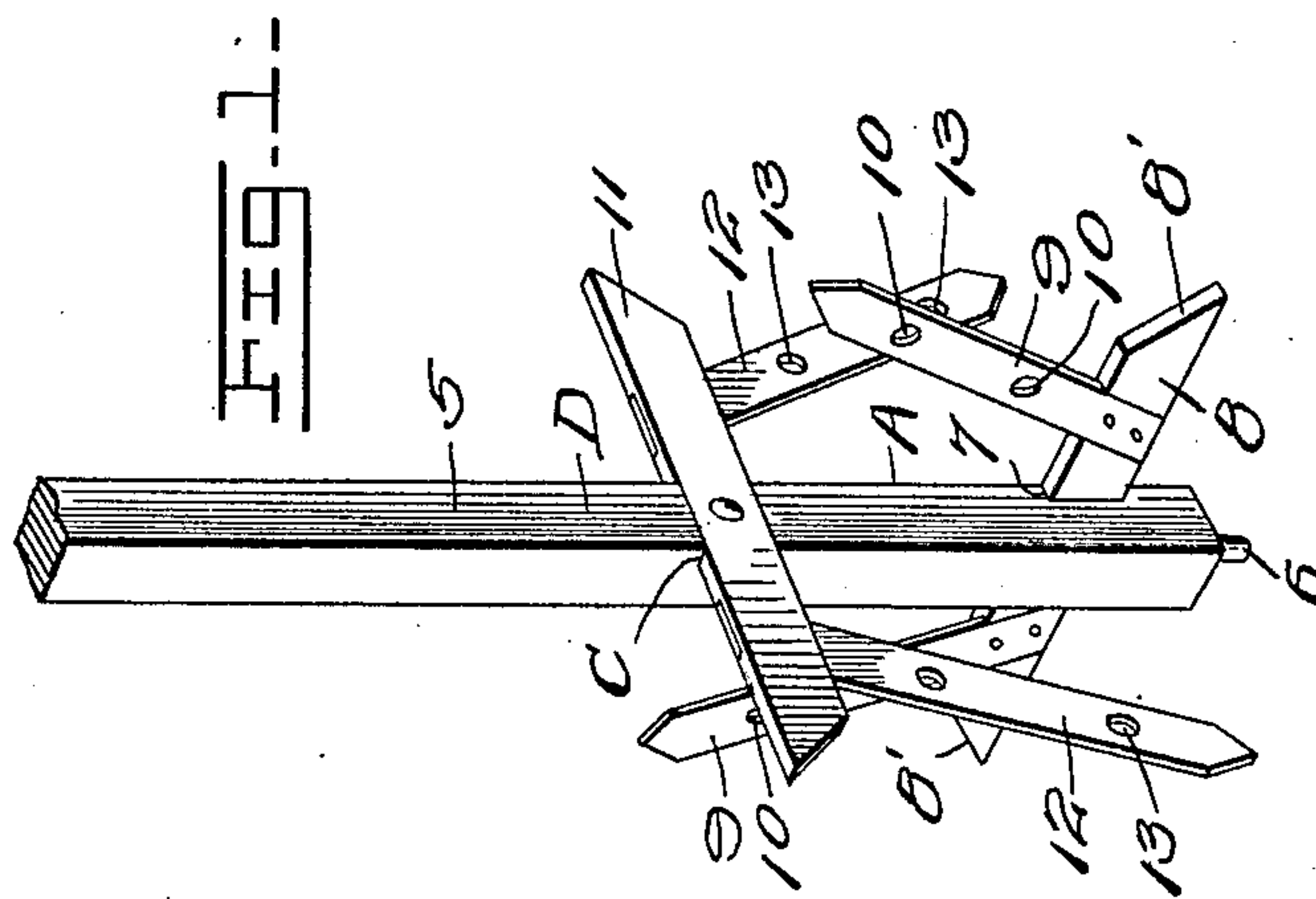
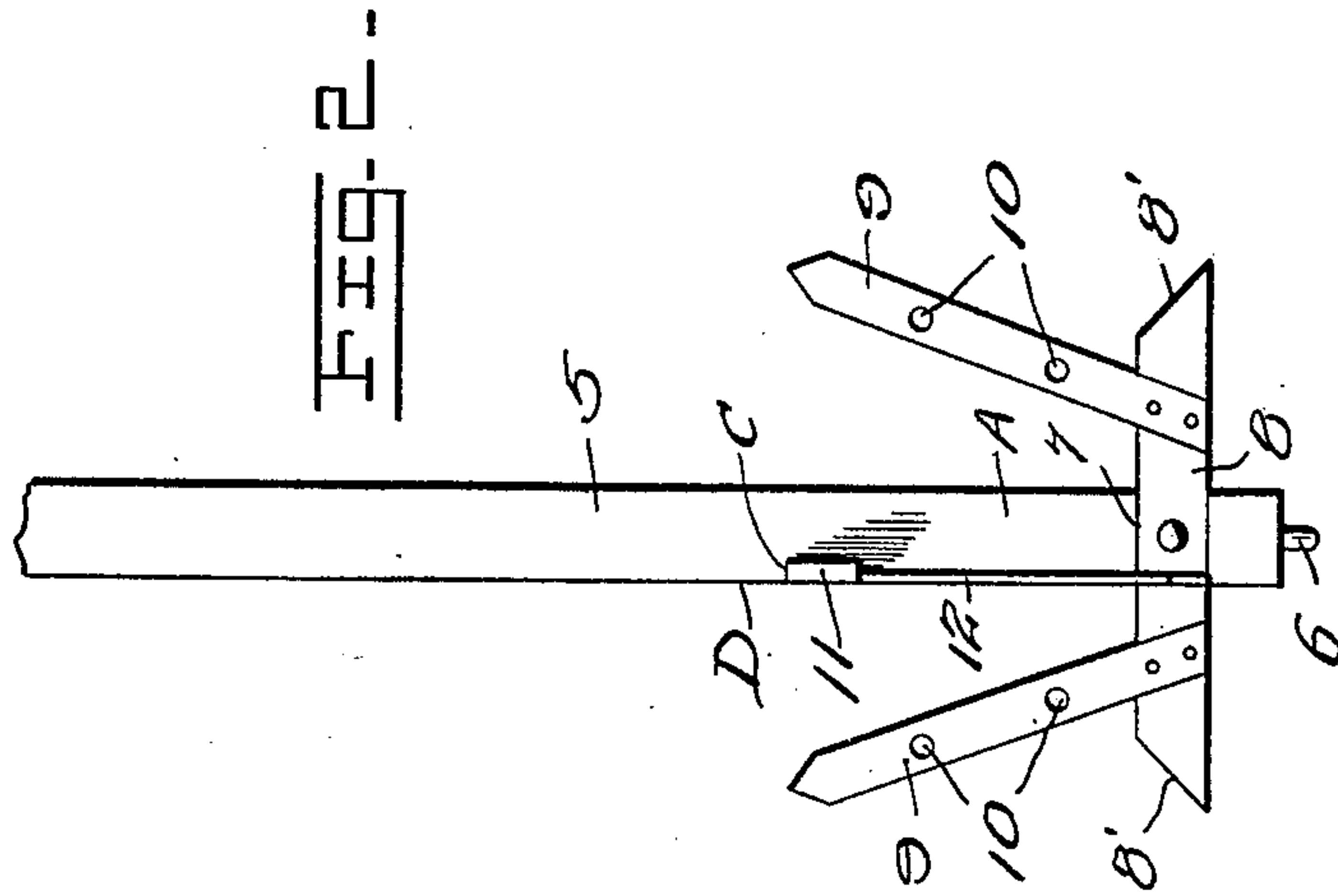


J. B. MELLOR.  
CHURN DASHER.  
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925,932.

Patented June 22, 1909.



Witnesses  
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C. L. Schaefer

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# UNITED STATES PATENT OFFICE.

JAMES B. MELLOR, OF BALTIMORE, MARYLAND.

## CHURN-DASHER.

No. 925,932.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed March 23, 1909. Serial No. 485,280.

*To all whom it may concern:*

Be it known that I, JAMES B. MELLOR, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Churn-Dashers, of which the following is a specification.

This invention relates to churns, and more particularly to dashers therefor, and has for its object to provide a churn dasher which will produce an agitation of the cream in a specific manner, tending to more quickly and completely reduce the cream to butter.

A particular object is to provide a churn dasher which will produce counter currents in the cream, thus bringing about the desired results.

Another object is to provide a dasher which will be simple and which may be constructed at a relatively low figure.

I am well aware of the fact that dashers having slanted arms such as those employed in my present construction have already been used, and I have myself obtained a patent numbered 110,487, dated December 27, 1870, embodying the basic principle of this structure. My present application is directed toward a specific arrangement of parts producing a definite agitation of the cream, which will, as stated, tend to produce butter with a minimum expenditure of time and energy.

In the drawings forming a portion of this specification, and in which like characters of reference indicate similar parts in the several views, Figure 1 is a perspective view of the present dasher. Fig. 2 is a side elevation.

Referring now to the drawings, the present dasher comprises a vertically disposed stock 5, having a foot-pin 6 at its lower end for engagement in the socket in the bottom of a churn of the usual type. Formed in one side face A of the stock, adjacent to the lower end thereof, there is a transverse recess 7 which receives a transversely extending arm 8, which projects oppositely beyond the stock and which has halved against its end portions adjacent to its extremities, a pair of upwardly extending and outwardly inclined arms 9 provided with openings 10. As will be seen, the arm 8 has its extreme outer ends disposed in a vertical line with the upper ends of the arms 9, the outer ends of the arm 8 being beveled upwardly and inwardly as shown at 8'.

A transverse recess C is formed in one side

face D of the stock, the side face D being located at right angles to the face A. This recess C is located in a horizontal plane between the upper extremities of the arms 9, and secured in the recess C, there is a second transversely extending arm 11, which thus lies at right angles to the arm 8. A pair of downwardly and outwardly directed diagonal arms 12 are halved against the opposite end portions of the arm 11, in a manner similar to the attachment of the arms 9 with the arm 8. These arms 12 are provided with openings 13, and the arms 12 extend downwardly to lie with their lower ends approximately in a plane with the arm 8, the arm 11 lying in a similar position with respect to the upper ends of the arms 9 as shown.

When the stock is revolved, it will be seen that the arms 12 and 9 will move through the same circle of motion, but the arms being oppositely slanted, and being attached at opposite ends, will form direct counter-currents, the arms 9 forming upwardly directed currents, while the arms 12 form downwardly directed currents. At the same time, the arms 11 and 8 will cause agitation of the cream horizontally, thus breaking up and terminating the upwardly and downwardly directed currents formed by the inclined arms 9 and 12.

The outer ends of the arm 11 are beveled similarly to but oppositely to the beveling of the arm 8, and the outermost extremities of the arm 11 are located in vertical planes with the lower ends of the corresponding arms 12. It will be understood that these extremities just clear the inner surface of a churn body within which the dasher is used, thus insuring agitation of the cream at all points within the churn.

What is claimed is:

1. A churn comprising a vertically disposed stock, oppositely disposed transverse arms secured to the stock in vertical spaced relation, said arms extending oppositely beyond the stock, and a pair of supplemental arms carried by each of the transverse arms one adjacent to each end thereof, the supplemental arms of the upper transverse arm being extended downwardly and outwardly, and the supplemental arms of the lower transverse arm being extended upwardly and outwardly, the upper ends of the second named supplemental arms lying in a common horizontal plane with the upper transverse arm, and the lower ends of the first



named supplemental arms lying in a common horizontal plane with the lower transverse arm.

2. A churn comprising a vertically disposed stock, oppositely disposed transverse arms secured to the stock in vertical spaced relation, said arms extending oppositely beyond the stock, and a pair of supplemental arms carried by each of the transverse arms one adjacent to each end thereof, the supplemental arms of the upper transverse arm being extended downwardly and outwardly, and the supplemental arms of the lower transverse arm being extended upwardly and outwardly, the upper ends of the second named supplemental arms lying in a com-

mon horizontal plane with the upper transverse arm, and the lower ends of the first named supplemental arms lying in a common horizontal plane with the lower transverse arm, said transverse arms extending at their extremities outwardly beyond the supplemental arms and lying with their extreme outer portions in common vertical planes with the free ends of their respective supplemental arms.

In testimony whereof I affix my signature, in presence of two witnesses.

JAMES B. MELLOR.

Witnesses:

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