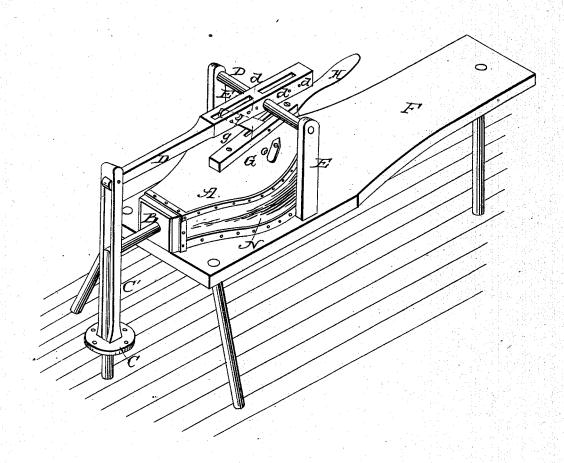
C. T. ANDERSON.

Churn.

No. 47,507.

Patented May 2, 1865.



Witnesses Charles D fryth Edward Hagel Inventor Charles G. Anderson.

UNITED STATES PATENT OFFICE.

CHARLES T. ANDERSON, OF CLARKSBURG, MARYLAND.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 47,507, dated May 2, 1865.

To all whom it may concern:

Be it known that I, Charles T. Anderson, of Clarksburg, in the county of Montgomery and State of Maryland, have invented a new and useful Improvement in Churns; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawing, which is made a part of this specification and represents a perspective view of my improved churning apparatus.

The special object of this invention is to simplify and otherwise improve the churn for which I obtained Letters Patent of the United States bearing date on the 18th day of June,

1861, and numbered 32,553.

The attachments between the bellows and churn in the subject of the patent alluded to are of such a character as to be liable from comparatively trivial causes to become deranged to an extent to render the churn inoperative.

The churn constituting the subject of the present application is not open to the objection named, nor is it as expensive as the

other.

The following description will enable others skilled in the art to which my invention appertains to fully understand and use the

In the accompanying drawing, A may represent a bellows of any suitable construction, and B a knee-shaped tube or nozzle, which is inserted through the end of the bellows for the purpose of conducting the air which is forced therefrom into the body of the cream contained in the churn or containing-vessel, into which latter the extremity of the vertical part of the tube B descends. The air being thus forced into the cream keeps it in a state of agitation, and by the consequent friction and impingement the churning operation is

The air-ejecting apparatus is not necessarily used alone, for in connection with it the dasher C may be brought into requisition. The motion of the dasher is a vertical reciprocatory motion, and it is secured on the end of the rod C', which is carried up and down by the vibrating arm D, which has its support and axis of motion upon the shaft D',

which is journaled in the standards E, the latter, together with the bellows, being mounted upon the table F. The motion of the bellows, due to its expansion and contraction, is transmitted to the arm D through the medium of the link G, which is pivoted at one end to said arm D and at the other to the handle H, whereby the bellows is operated. The elevation and depression of the handle H thus accomplishes two purposesnamely, the forcing of air into the cream and the reciprocating of the dasher C. I propose to have a disk affixed to the lower extremity of the tube B, in order to cause the air to pass out or up between its periphery and the side of the churn.

The connection between the rod C' and arm D may consist simply of a pin which can be readily withdrawn when it is desired to detach the dasher. The bellows is provided with ingress and egress apertures, guarded by valves in customary manner.

The pin g, which connects the link G with the arm D, may be changed in the apertures d so as to increase or diminish the extent of vibration of the arm D and, as a consequence,

the motion of the dasher.

The link G may connect the handle H and arm D on the opposite side of the shaft D' from that in which it is shown, and then the depression of the handle H will elevate the dasher while air is being forced into the

Having thus described my invention, the following is what I claim as new therein and

desire to secure by Letters Patent:

1. The combination of the rod C', arm D, link G, and handle H, the parts being so arranged that the motion of the handle will be transmitted to both the bellows and dasher, substantially as set forth.

2. In a churn of the description herein given, the pin g and perforations d, employed as and

for the object specified.

To the above specification of my improvement in churns I have signed my hand this 23d day of March, 1865.

CHÁRLES T. ANDERSON.

Witnesses:

CHARLES D. SMITH, FRANK W. EDWARDS.