

J. Toll
Churn

No. 74955

Patented Feb. 25. 1868

Fig. 2.

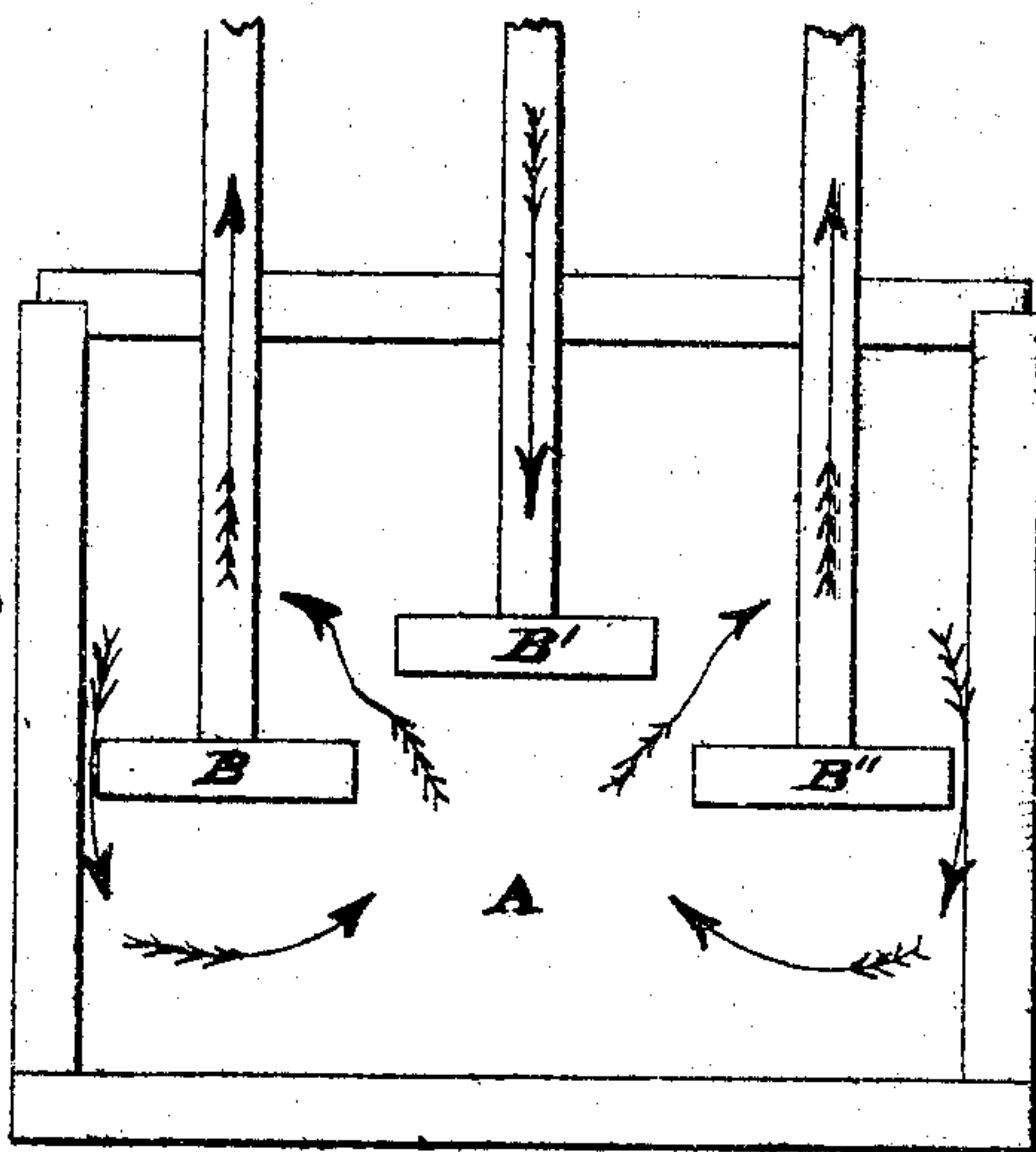
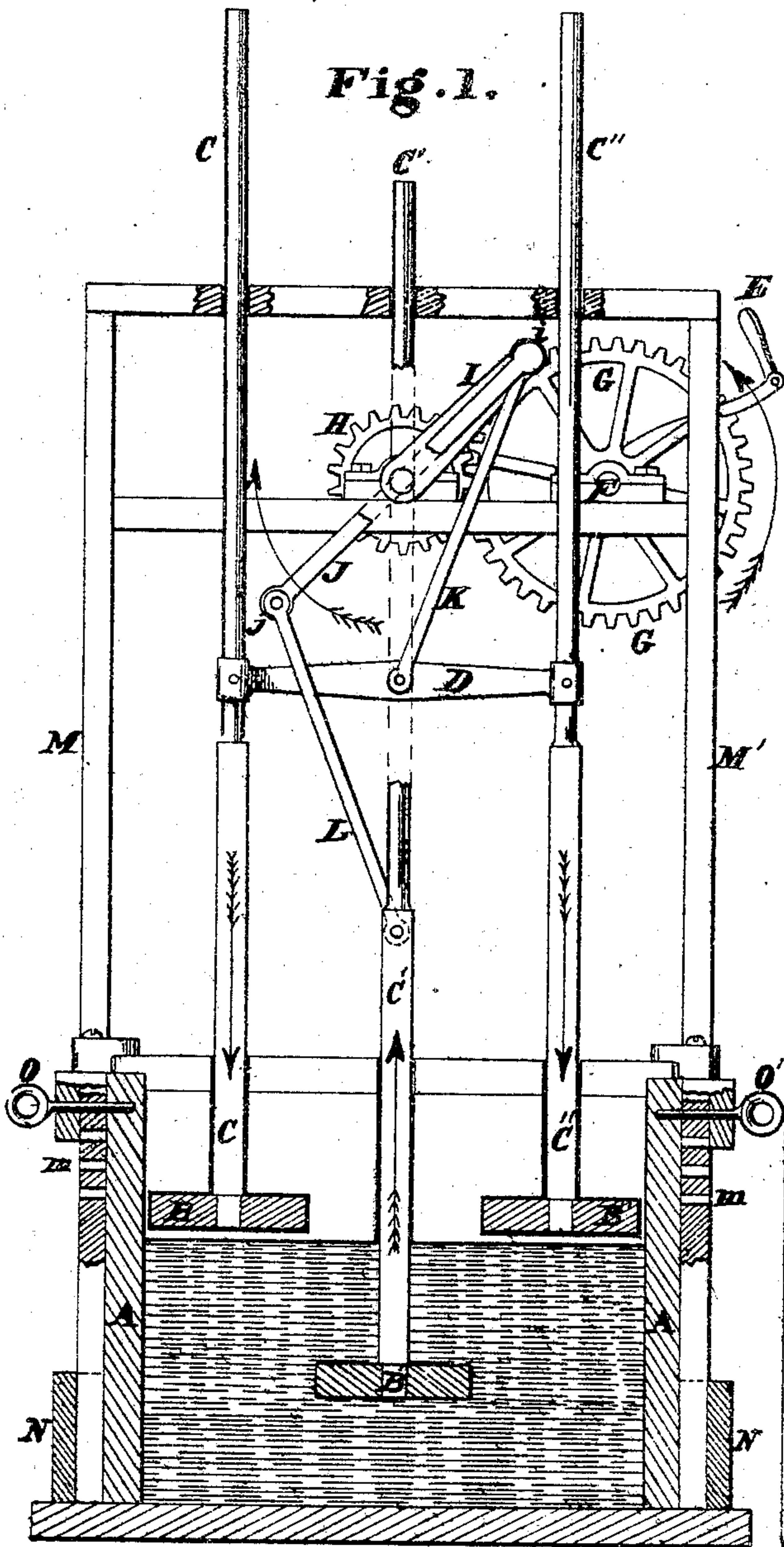
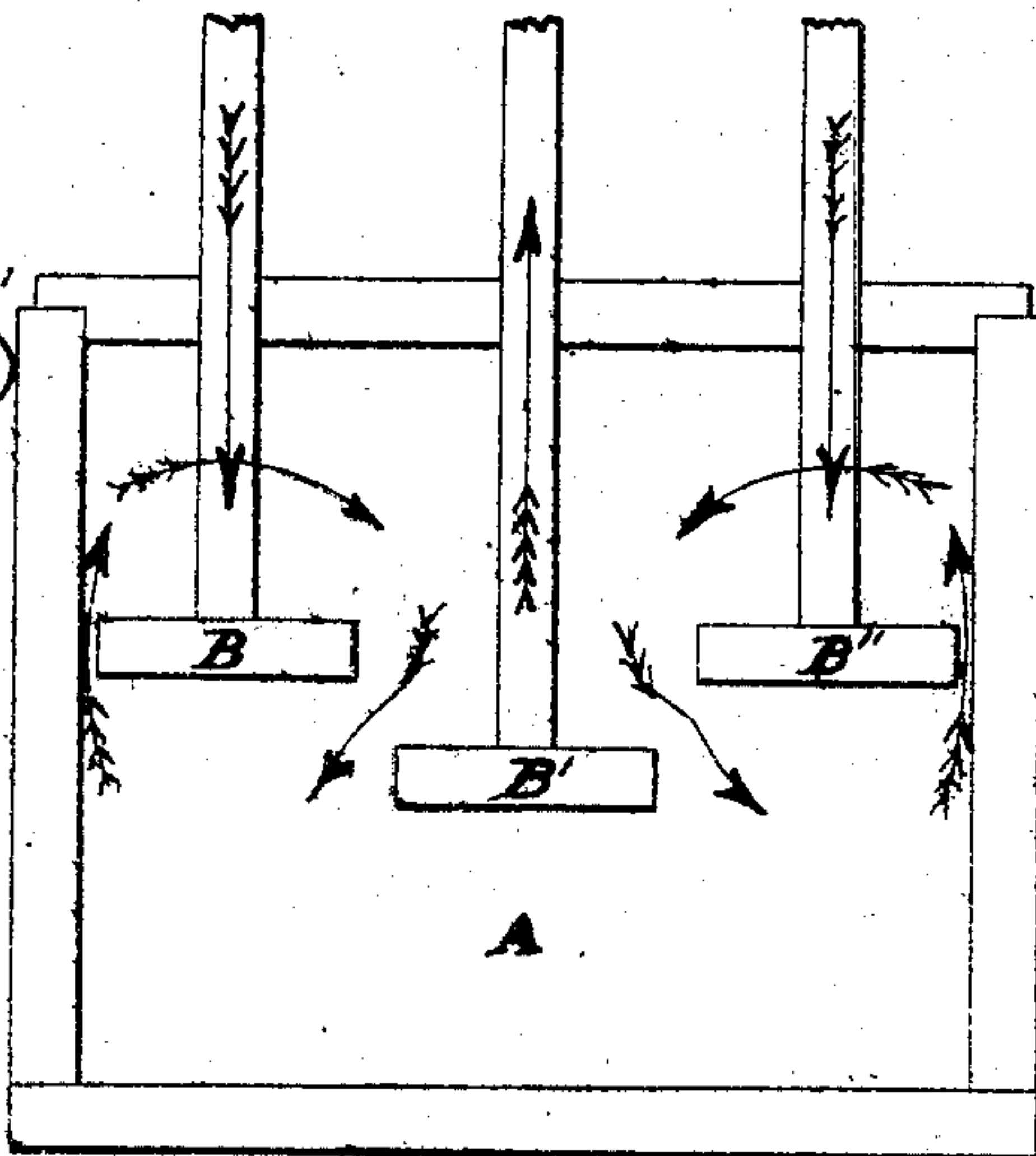


Fig. 3.



INVENTOR.

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JOSE TOLL, OF LOCUST GROVE, OHIO.

Letters Patent No. 74,955, dated February 25, 1868.

IMPROVEMENT IN CHURNS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOSE TOLL, of Locust Grove, in the county of Adams, and State of Ohio, have invented a new and useful Churn; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which are made part of this specification.

The first part of my invention relates to an arrangement of two outside dashers, and a central one, to which are imparted opposite reciprocations, as hereinafter explained.

The second part of my invention relates to a provision for the vertical adjustment of the frame, in order to secure the impact of the dashers upon the surface of the cream.

Figure 1 is a vertical section of a churn, embodying my invention.

Figures 2 and 3 are diagrams illustrative of the action of the dashers during opposite directions of the stroke.

A is a water-tight box of rectangular form. The dashers consist of three rectangular boards, B B' B'', which are, collectively, equal, or nearly equal, to the area of the box, and having stems, C C' C'', of which those, C C'', of the two outer dashers are united to a common cross-head, D. E is the operating-crank or wrist, whose shaft F carries a spur-wheel, G, that drives a pinion, H, whose shaft carries a double crank, I J, whose wrists, i j, are connected by pitmen, K L, with the cross-head D and stem C' respectively. The frame in which the gearing is journaled comprises two standards, M M', which occupy a socket, N, on the side of the box.

The standards M M' have a series of orifices, m, for the insertion of pins, O O', by which the stroke of the dashers may take place at such elevation within the tub or box as shall insure the impact of every dasher on the surface of the cream.

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

1. The arrangement of the three oppositely-reciprocating dashers B B' B'', stems C C' C'', cross-head D, double crank I i J j, and pitmen K L, for the purpose set forth.

2. The perforated and vertically-adjustable frame M M', socket N, and pins O O', for the object explained.

In testimony of which invention I hereunto set my hand.

JOSE TOLL.

Witnesses:

J. E. M. BOWEN,
JAMES H. LAYMAN.