

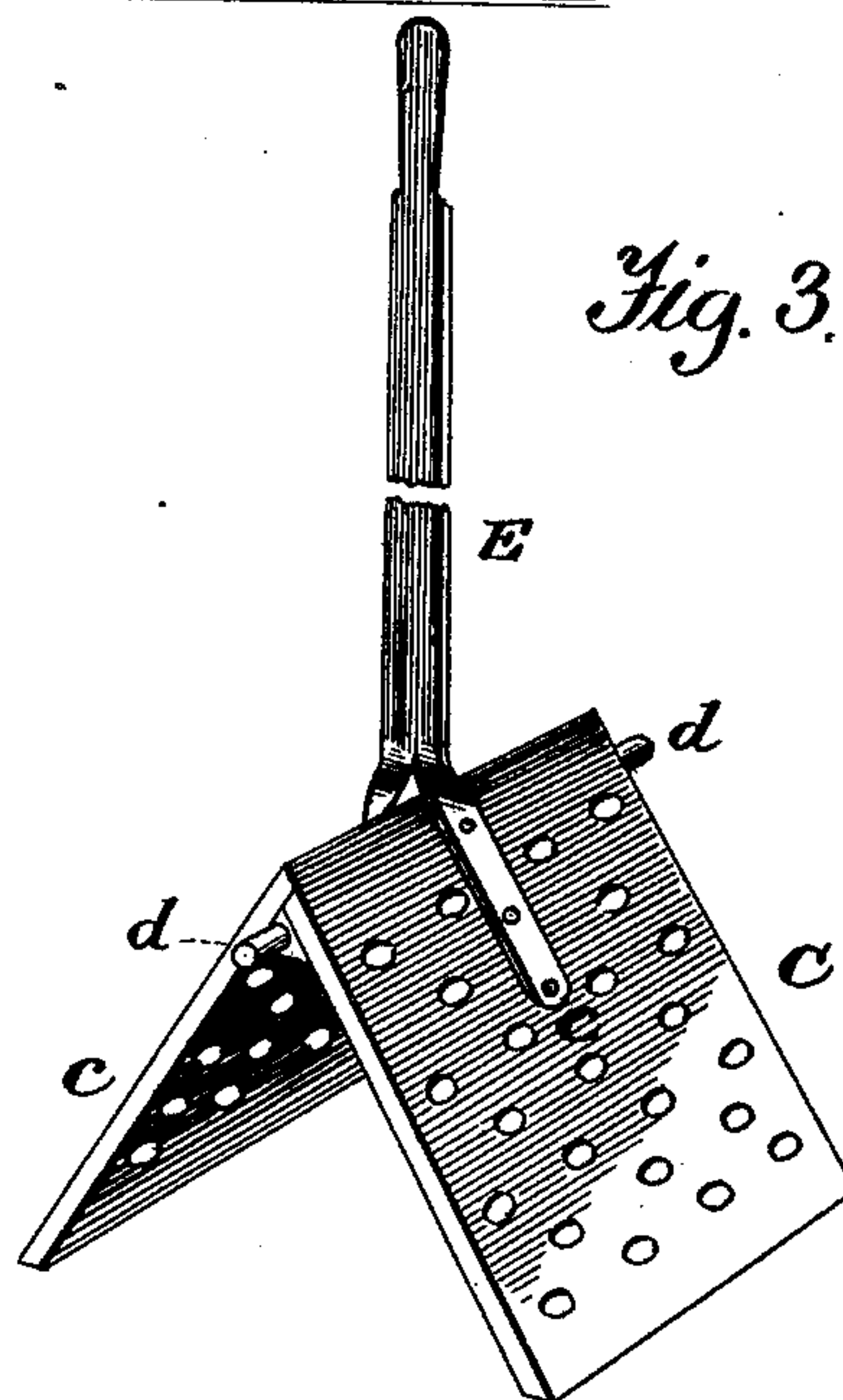
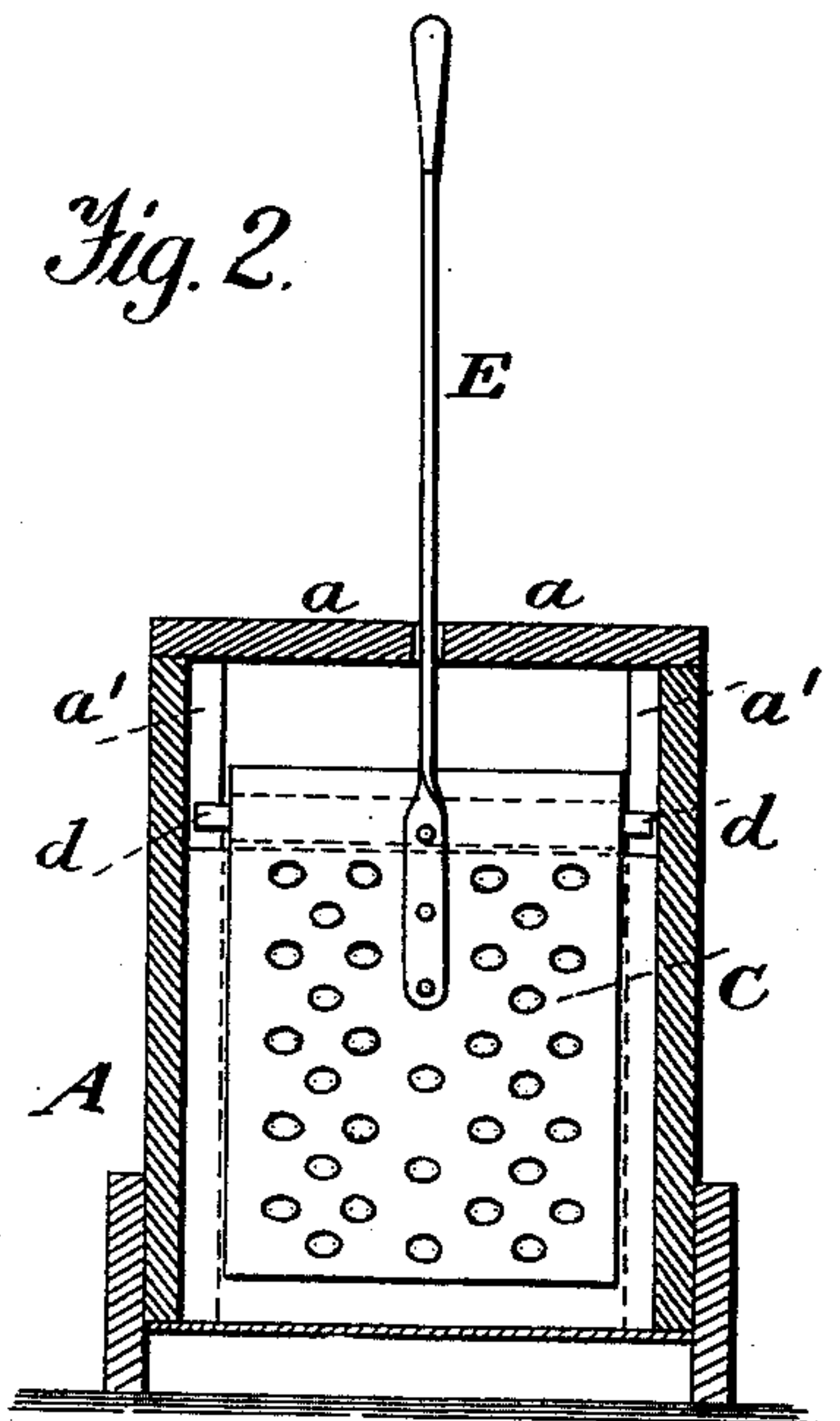
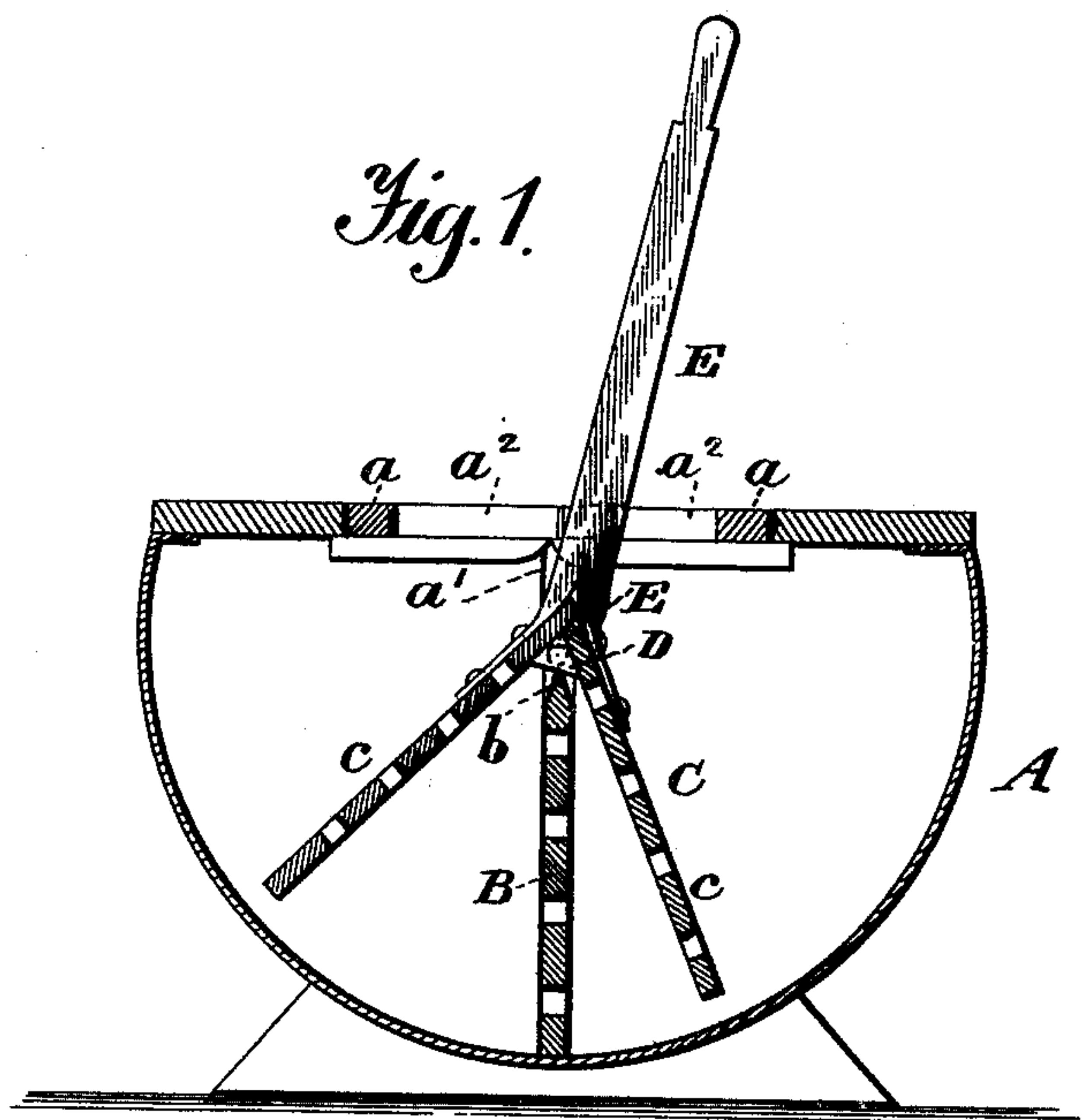
(No Model.)

R. L. TRIMBLE.

CHURN.

No. 413,985.

Patented Oct. 29, 1889.



Witnesses
A. Ruppert.
H. A. Daniels

Inventor.
R. L. Trimble
Per
Thomas P. Driffler
Atty.

UNITED STATES PATENT OFFICE.

ROBERT L. TRIMBLE, OF NEWMAN, ILLINOIS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 413,985, dated October 29, 1889.

Application filed March 1, 1889. Serial No. 301,618. (No model.)

To all whom it may concern:

Be it known that I, ROBERT L. TRIMBLE, a citizen of the United States, residing at Newman, in the county of Douglas and State of Illinois, have invented certain new and useful Improvements in Churns; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to that class of churns in which a vibratory dasher is employed.

The churn will first be described in connection with the drawings, and then the novelty pointed out in the claim.

Figure 1 is a longitudinal section of the churn in a vertical plane; Fig. 2, a transverse vertical section, and Fig. 3 a detail perspective view of the dasher.

In the drawings, A represents the churn-body, rounded at the ends on the inside, having the removable cover *a*, and provided on the inside, about the middle, with the vertical grooves *a' a'*. In these grooves fits the perforated dividing-board B, which extends from the bottom of the churn-body about two-thirds of the way to the top thereof, and is knife-edged at the upper end *b*, so as not to interfere with the free turning of the dasher C. This dasher consists of two parts fastened to-

gether at a meeting angle, wherein is secured a journaled angle-piece D, the journals *d d* extending out beyond the dasher. Across the outer angle of the dash is fastened the bifurcated ends of the handle E, which passes through the slot *a²* of the cover *a*. By this construction the dash-journals *d d* play freely in the grooves *a' a'*, and on the knife-edge *b* of the board B turns the angle-piece D with very little friction. Each wing *c* of the dasher vibrates in the quadrant of a circle, alternately forcing the cream through the holes in the dividing-board, thus effectually breaking the butter globules and quickly bringing the butter. The leverage thus conveniently obtained renders the labor of churning very light and accompanied with little fatigue.

What I claim as new, and desire to protect by Letters Patent, is—

The handled dasher C, having two equal perforated wings fastened together at a meeting angle, and the journals *d d*, projecting at the sides from the angle-piece D, in combination with the perforated dividing-board B, knife-edged at the top, and the churn-body A, having the vertical grooves *a' a'*, as and for the purpose specified.

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

ROBERT L. TRIMBLE.

Witnesses:

W. C. RANDALL,
G. T. BANE.