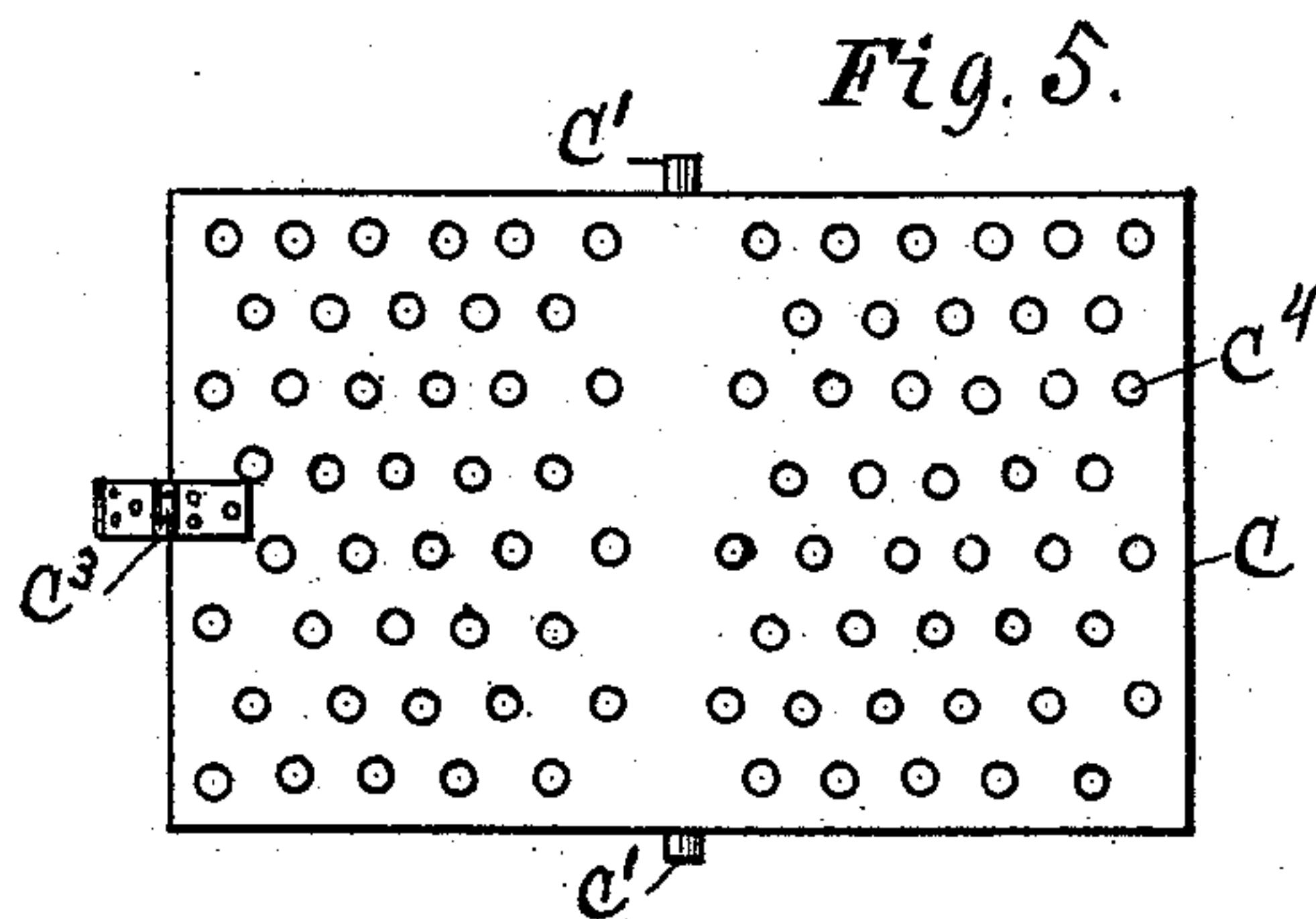
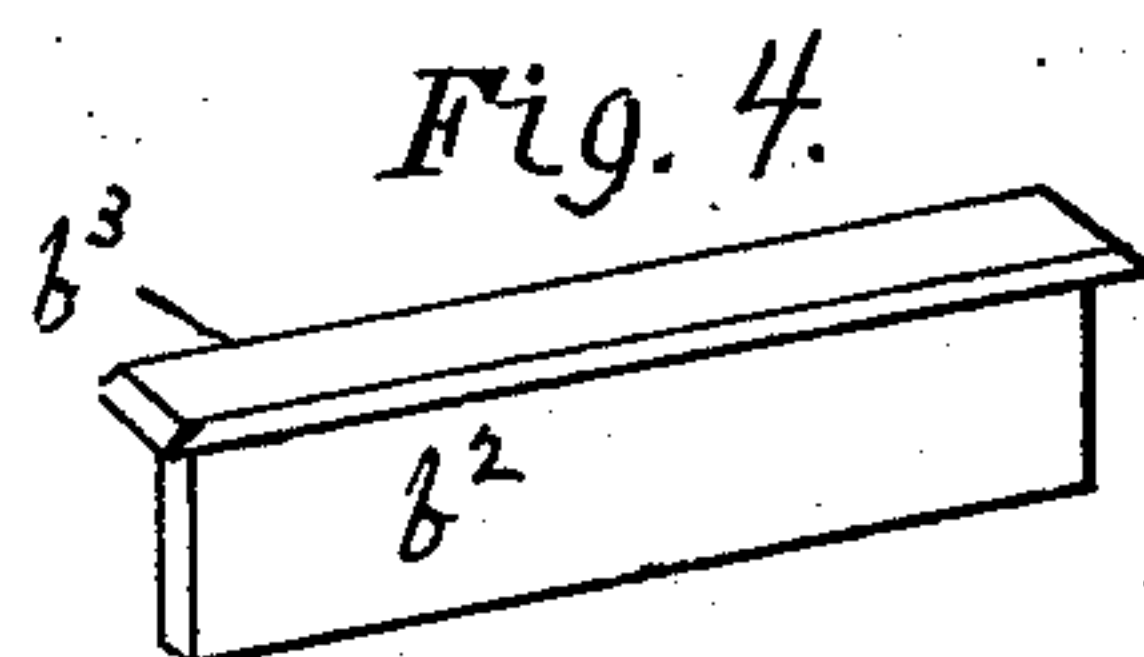
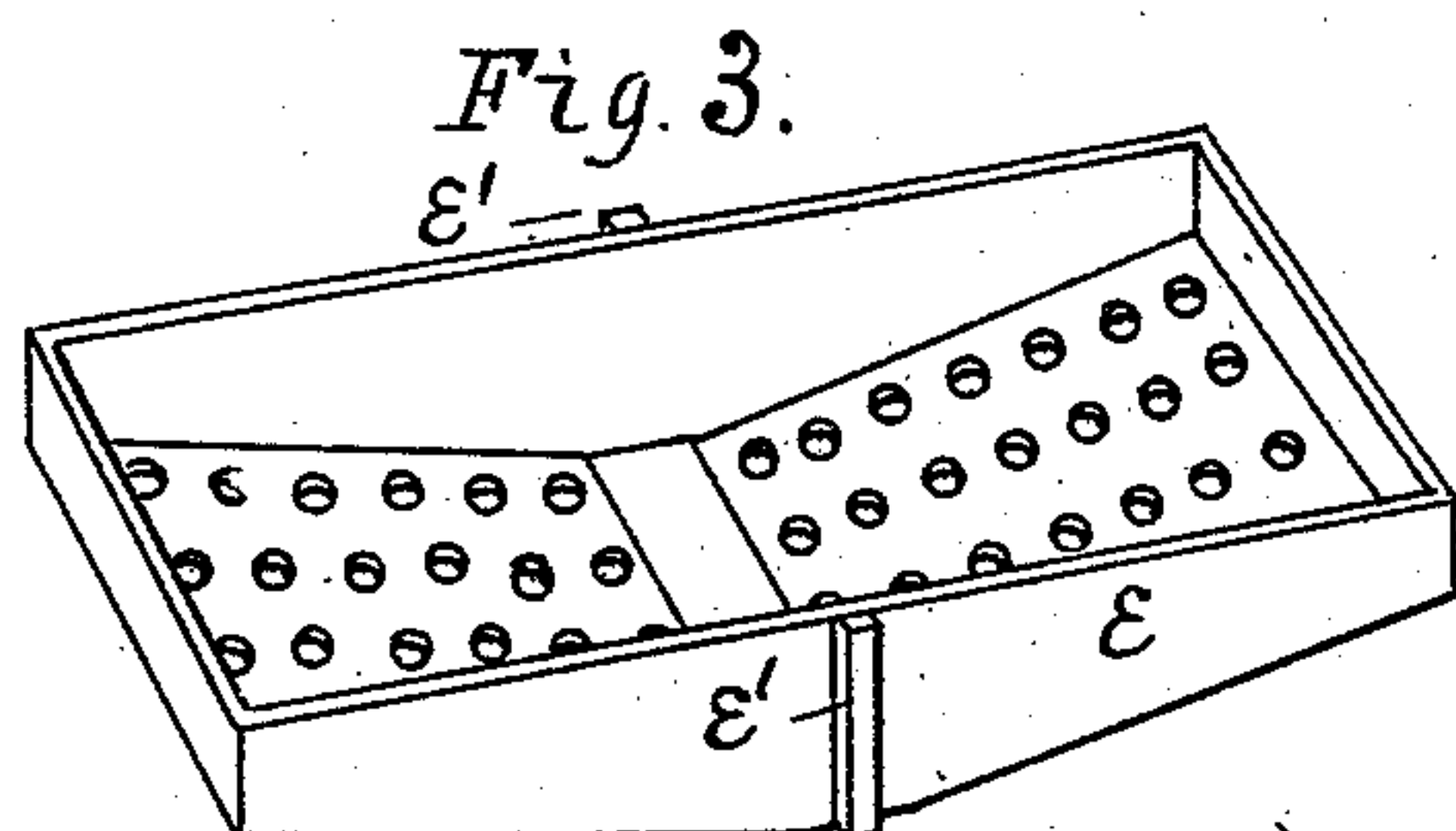
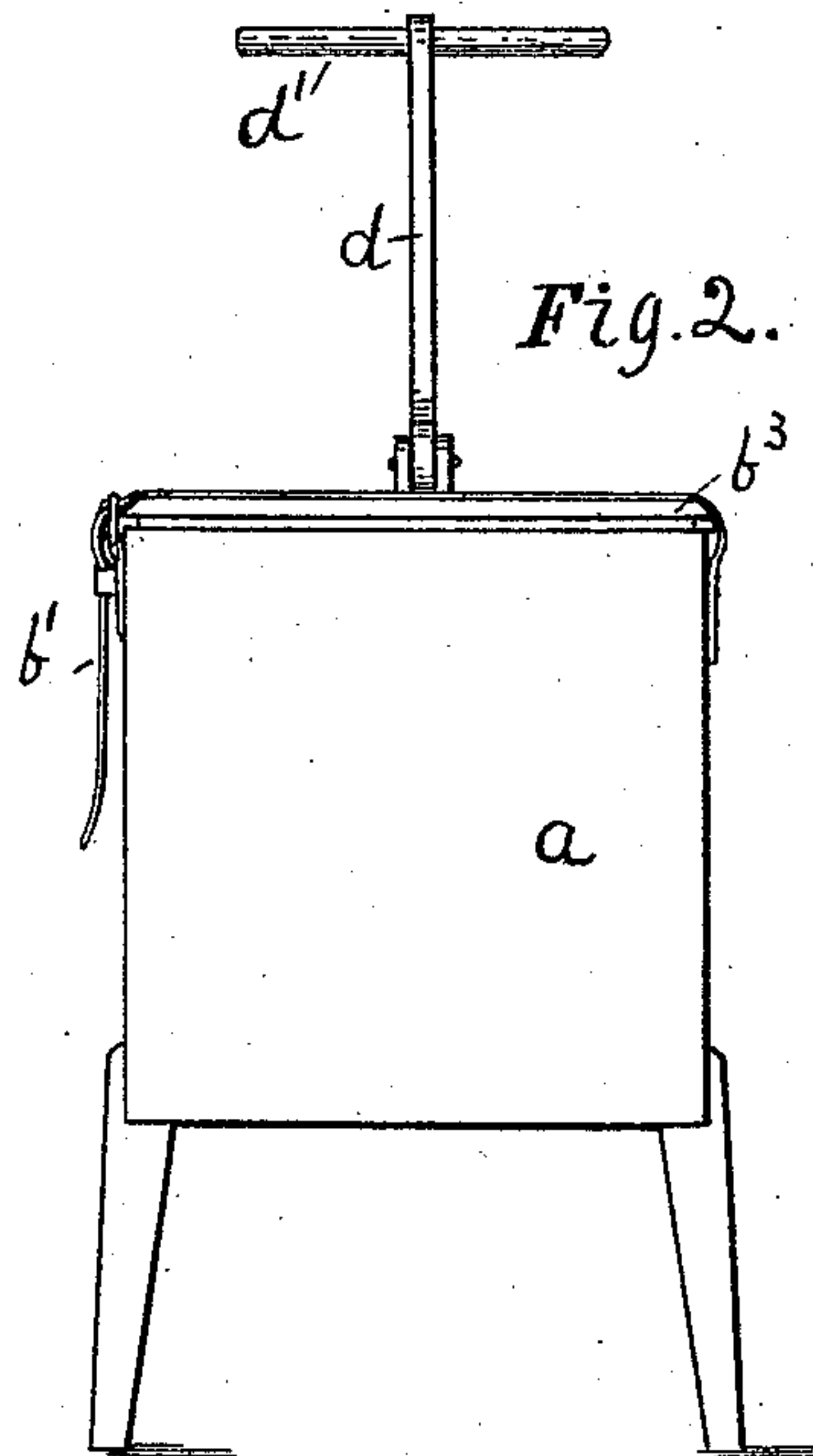
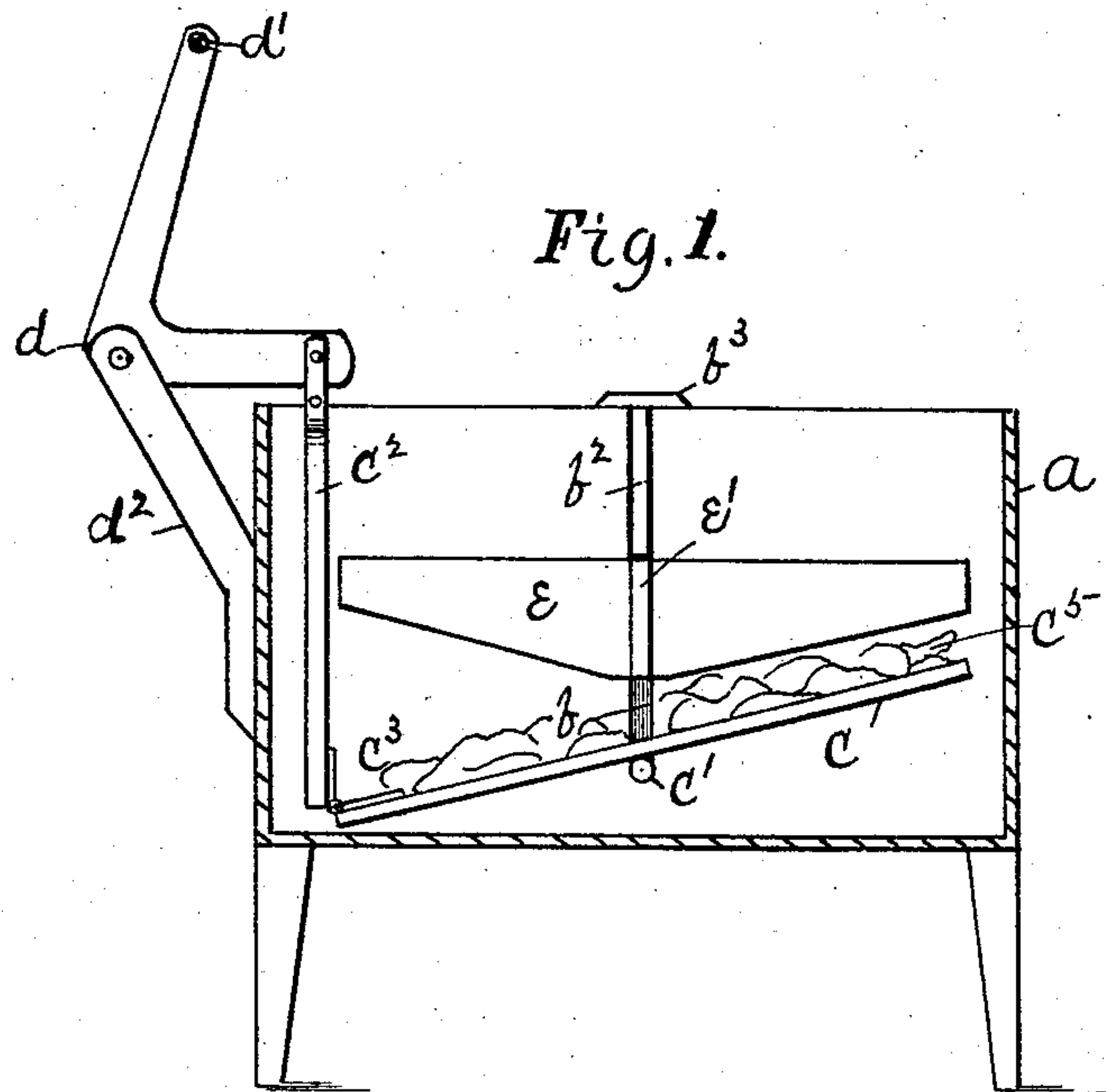


(No Model.)

A. H. B. DEAN.
WASHING MACHINE.

No. 572,337.

Patented Dec. 1, 1896.



Witnesses
C. O. Marion
S. E. Bain

Inventor
Alvin H. B. Dean
by H. M. Mason atty.

UNITED STATES PATENT OFFICE.

ALVIN H. B. DEAN, OF NEW BEDFORD, MASSACHUSETTS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 572,337, dated December 1, 1896.

Application filed March 18, 1896. Serial No. 583,783. (No model.)

To all whom it may concern:

Be it known that I, ALVIN H. B. DEAN, a citizen of the United States, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

The accompanying drawings illustrate my invention, in which—

Figure 1 is a side elevation of my improved washing-machine with one side of the suds box or tank removed so as to show its interior construction. Fig. 2 is an end view of my invention as it appears when ready to be operated. Fig. 3 is a view in perspective of a shallow open-topped box, which constitutes the upper washboard. Fig. 4 is a view in perspective of the device which, with the retaining-strap *b'*, limits the upward movement of said open-topped box. Fig. 5 is a plan view of the under washboard.

Similar letters refer to similar parts in the several views.

The letter *a* represents the suds box or tank of the machine, comprising a rectangular water-tight receptacle, having the interior of its sides provided with the perpendicular grooves *b* midway of its length and extending nearly to the bottom thereof. To the outside of one end of said box *a* is secured a standard *d*², in the top of which is pivoted the angular lever *d*, having its upright arm provided with a handle *d'*, and having a connecting-rod *c*² pivoted to its other arm.

c represents a board, as shown in Fig. 5, having a series of perforations *c*⁴, adapted to tilt on the pivots *c'*, which rest in the lower ends of the grooves *b*, one end of which board is hinged to the connecting-rod *c*² and is actuated through the lever *d*.

e represents an open-topped shallow box, having a perforated bottom slanting upward from near its center at an angle coincident with the slant of the board *c* when one end is depressed to its lowest extent. The box *e* is provided with the upright pieces *e'* firmly secured to its sides and adapted to slide in the grooves *b* and hold said box in a horizontal position.

*b*² is a board adapted to slide up and down in the grooves *b* and is provided with the projecting top *b*³.

b' is a strap secured to the sides of the suds-box and adapted to be buckled over the top of the board *b*² to hold it and the box *e* from being pushed upward, as shown in Fig. 2.

The operation of the machine is as follows: The board *b*² and box *e* are removed and a sufficient quantity of water and soap introduced into the suds-box. The clothes *c*⁵ to be washed are then distributed on the upper surface of the board *c*. The box *e* and the board *b*² are then placed in the suds-box in the manner shown in Fig. 1, and the strap *b'* is then buckled over the top *b*³ of the board *b*², as shown in Fig. 2, in order to prevent the box *e* from being pushed upward by the pressure of the clothes *c*⁵. The handle *d'* is then pushed backward and forward, thereby tilting the board *c* on its pivots and squeezing the clothes between the board *c* and the bottom of the box *e*.

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

In a washing-machine, the combination with a rectangular suds-box, having a perpendicular groove in the interior surface of each of its sides, extending nearly to the bottom thereof and midway of its ends, of a perforated board, adapted to tilt on pivots resting in the bottom of said grooves, and means for actuating said board; a shallow open-topped box, having a perforated bottom, slanting upward from near its center, at an angle coincident with the slant of the board *c*, when one of its ends is depressed to its lowest extent, and provided with upright pieces fixed to the exterior of its sides, adapted to slide in the perpendicular grooves in the sides of said suds-box, and hold said box in a horizontal position; and means to limit the upward movement of said open-topped box, within said suds-box, all as shown and described.

ALVIN H. B. DEAN.

Witnesses:

HENRY W. MASON,
J. R. SMITH.