

(No Model.)

J. HEAD.
AGITATOR FOR TAN VATS.

No. 281,061.

Patented July 10, 1883.

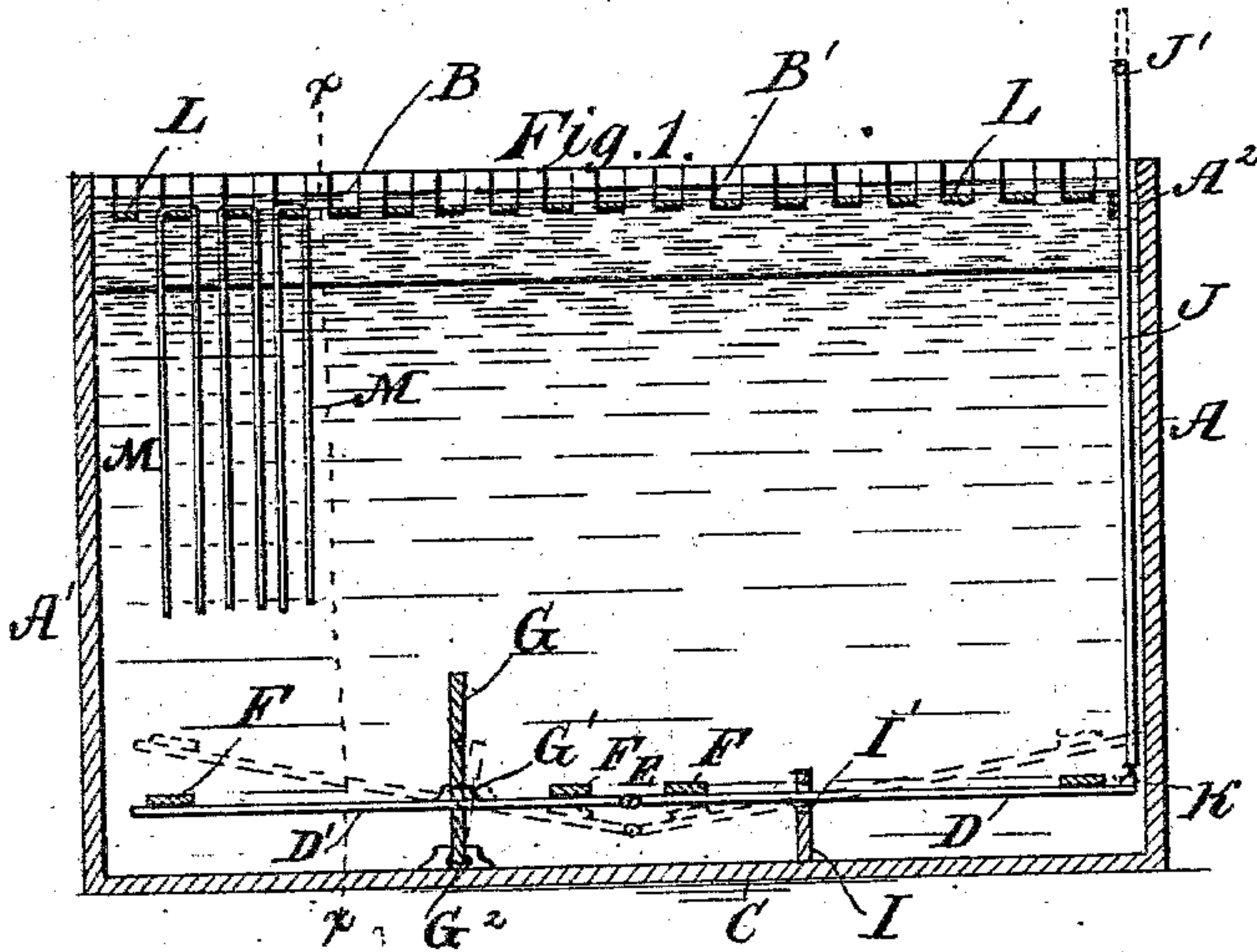


Fig. 3.

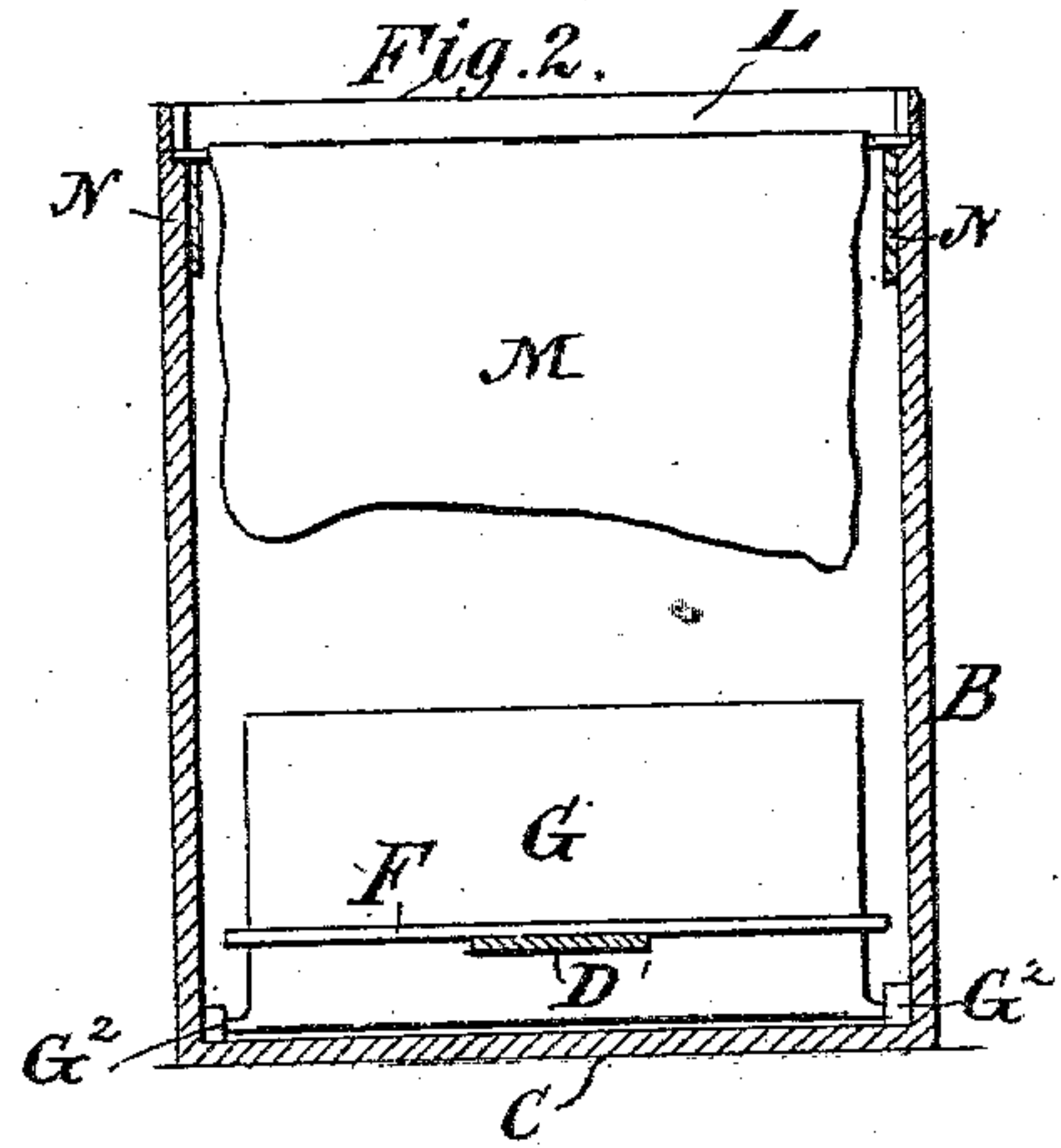


Fig. 4.

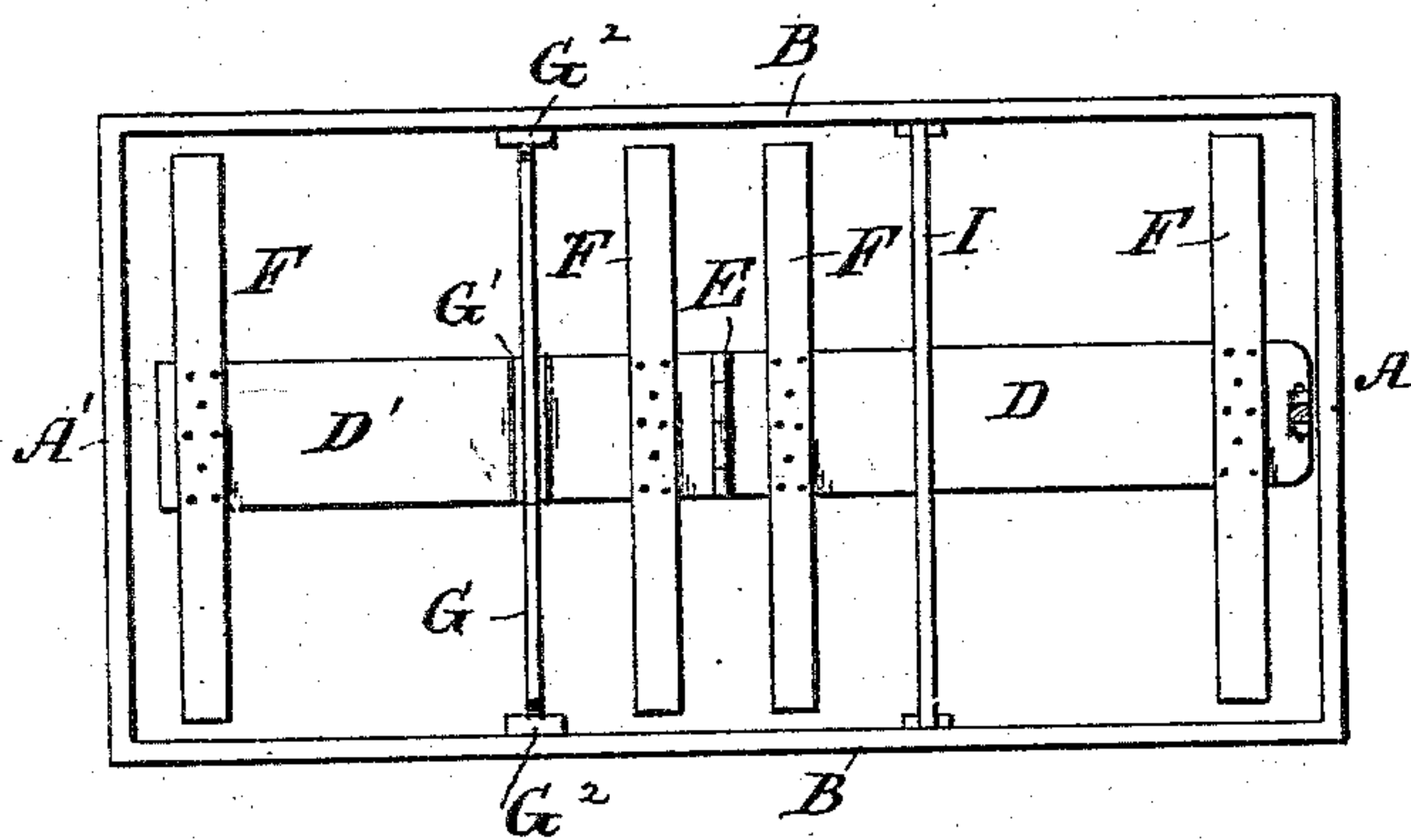
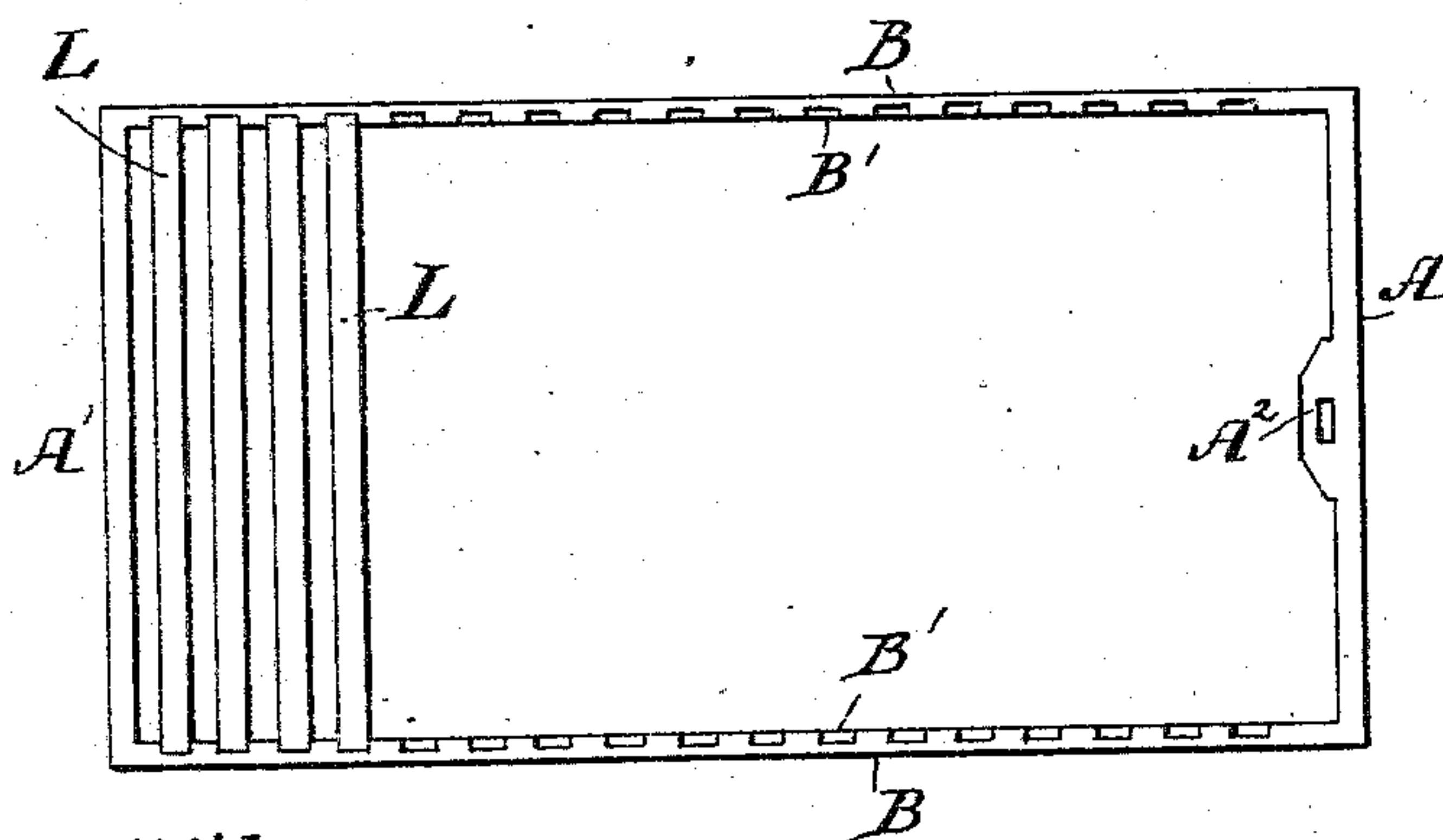
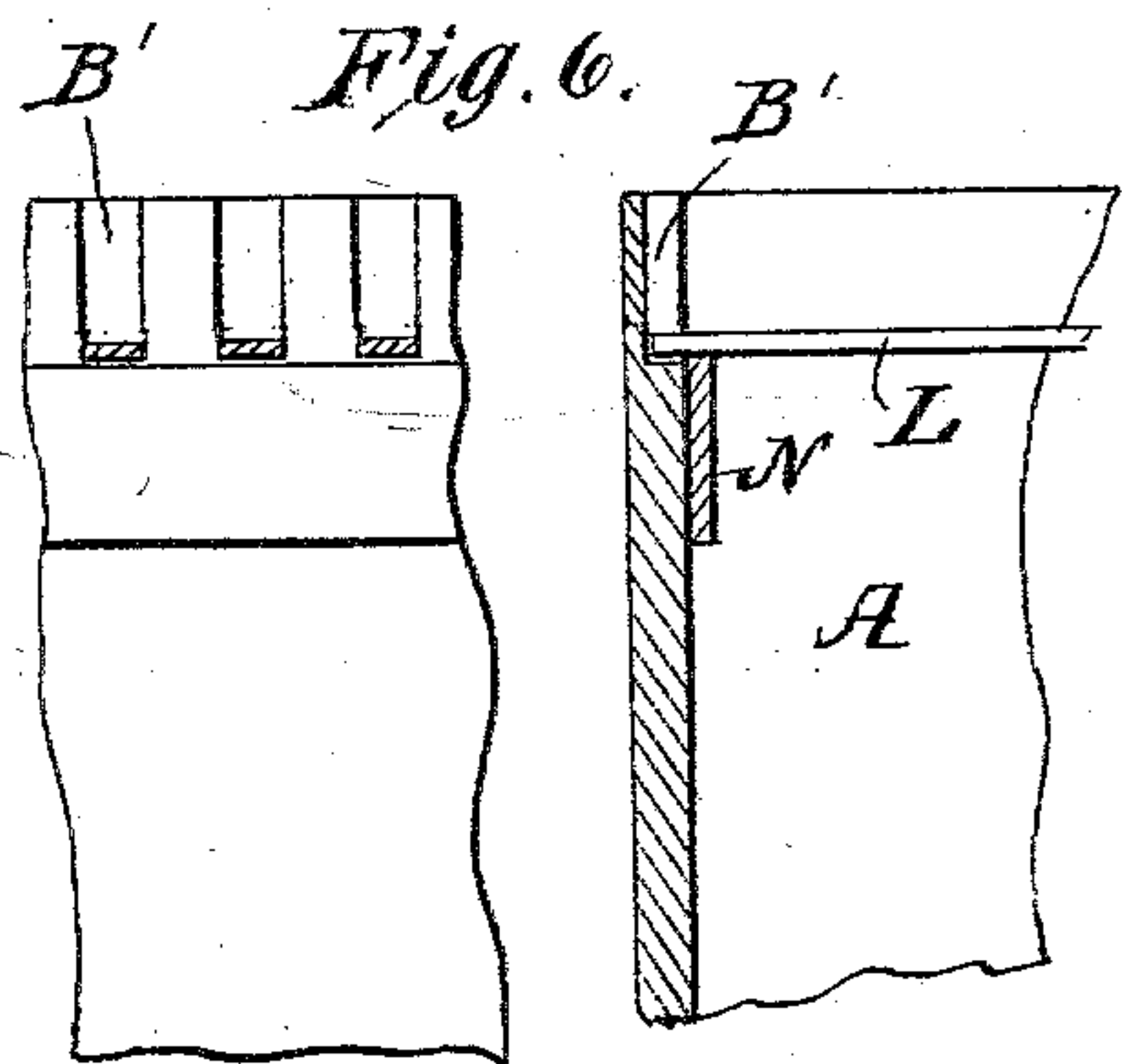
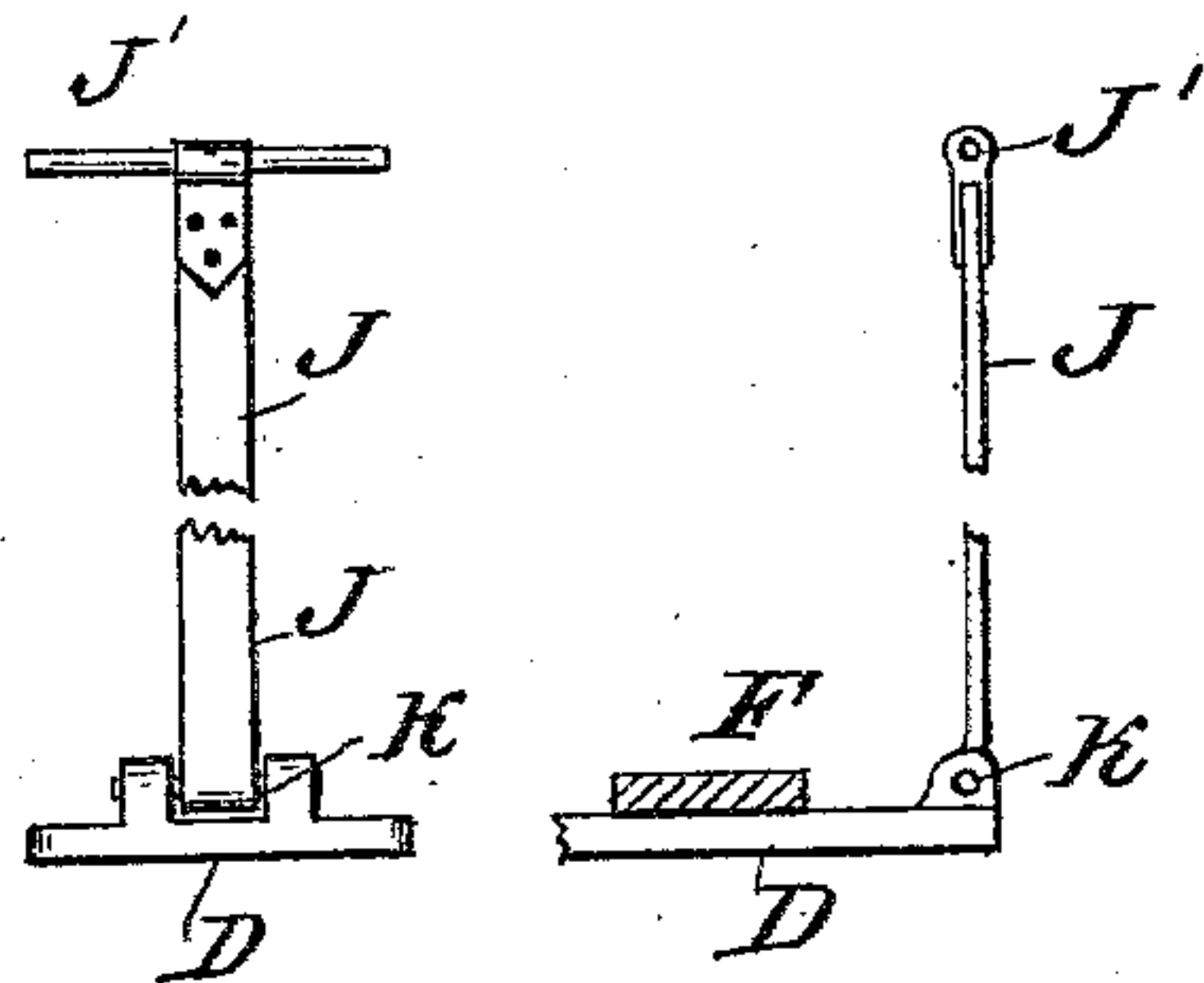


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE

JOSEPH HEAD, OF RICHMOND, VIRGINIA.

AGITATOR FOR TAN-VATS.

SPECIFICATION forming part of Letters Patent No. 281,061, dated July 10, 1883.

Application filed April 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HEAD, of Richmond, in the county of Henrico and State of Virginia, have invented a new and useful Improvement in Agitators for Tan-Vats; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use it, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to an agitator for tan-vats; and it consists in the parts which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 represents a vertical longitudinal section. Fig. 2 is a section on the line $x x$ of Fig. 1. Fig. 3 is a top plan view with the slats removed. Fig. 4 represents details of the agitating-rod, its handle, and the mode of its attachment to the shaking-board. Fig. 5 is a top plan view of the vat, showing a series of slats and the manner in which they are secured; and Fig. 6 are details of side and end of vat, respectively, showing the slat-grooves therein.

Like letters indicate like parts throughout the several views.

A is the head end of the vat, and A' is the foot end thereof.

A² is a block with an opening on the inside of the head-piece A. This block is adapted to admit the upper end of the handle in its opening and permit the vertical movement therein.

B are the sides of the vat, and C is the bottom thereof.

B' are grooves, adapted to receive the slats, on the inside of sides B.

D D' are two parts constituting the agitator-board. These two parts are hinged together at E.

F are cross-bars fixed to the agitator D D'.

G is an agitator-board, pivoted at G' to board D', and also pivoted to blocks G² on the lower inner sides of the vat.

I is a cross-strip fixed to the inside of bottom C, and I' is a pivot securing said strip to the board D.

J is the agitating-rod, provided with handle J'.

K is the pivot uniting the handle to the board D.

L are slats upon which the hides M are hung.

N are inside strips to strengthen the vat. The slats rest upon the upper edges of these strips.

It will be seen that by imparting a vertical movement to the rod J the board D D' and bars F are moved, and the liquid in the vat thereby agitated. Such movement also imparts an oscillatory motion to the pivoted cross-board G.

I am aware that there is nothing new in the arrangement and form of the top slats herein shown and described. I therefore lay no claim to them; but

What I do claim, and desire to secure by Letters Patent, is—

1. In a tan-vat, the boards D D', united as specified, in combination with the pivoted cross-boards I G and agitating-rod J, substantially as described, and for the purposes set forth.

2. In a tan-vat, the agitating-boards D D', hinged as specified, in combination with the rod J, the pivoted cross-boards I G, and cross-bars F, substantially as described, and for the purposes set forth.

3. In a tan-vat, the agitating-boards D D', hinged as specified, in combination with the cross-boards I G, pivots G', G², and I', and the agitating-rod J, substantially as described, and for the purposes set forth.

In testimony that I claim the foregoing I append my signature.

JOSEPH HEAD.

Witnesses:

WM. B. ROBISON,
W. J. OSGOOD.