

M. M. KING.

BOX.

APPLICATION FILED JUNE 17, 1909.

Patented Nov. 2, 1909.

938,590.

Fig. 1

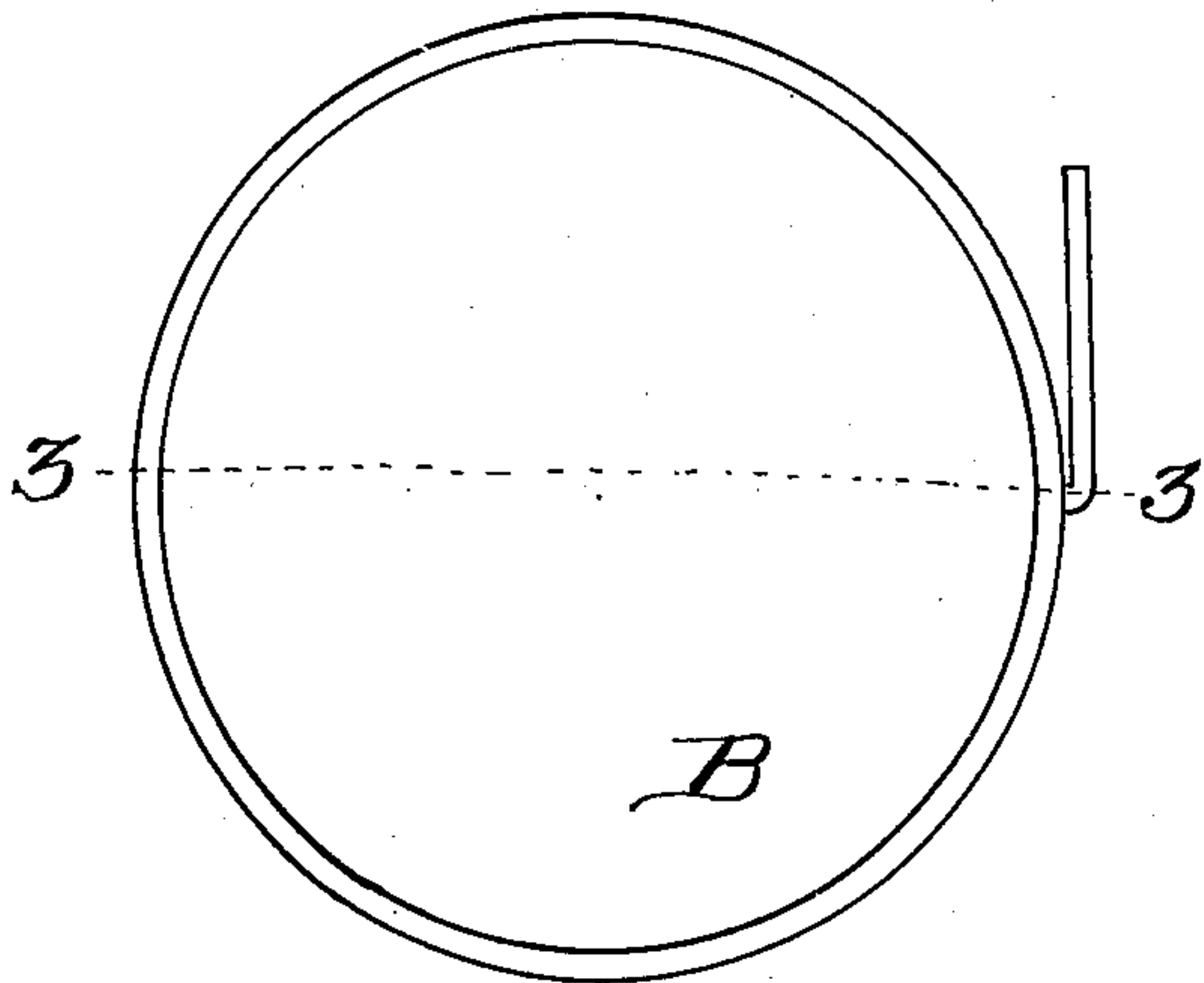


Fig. 3.

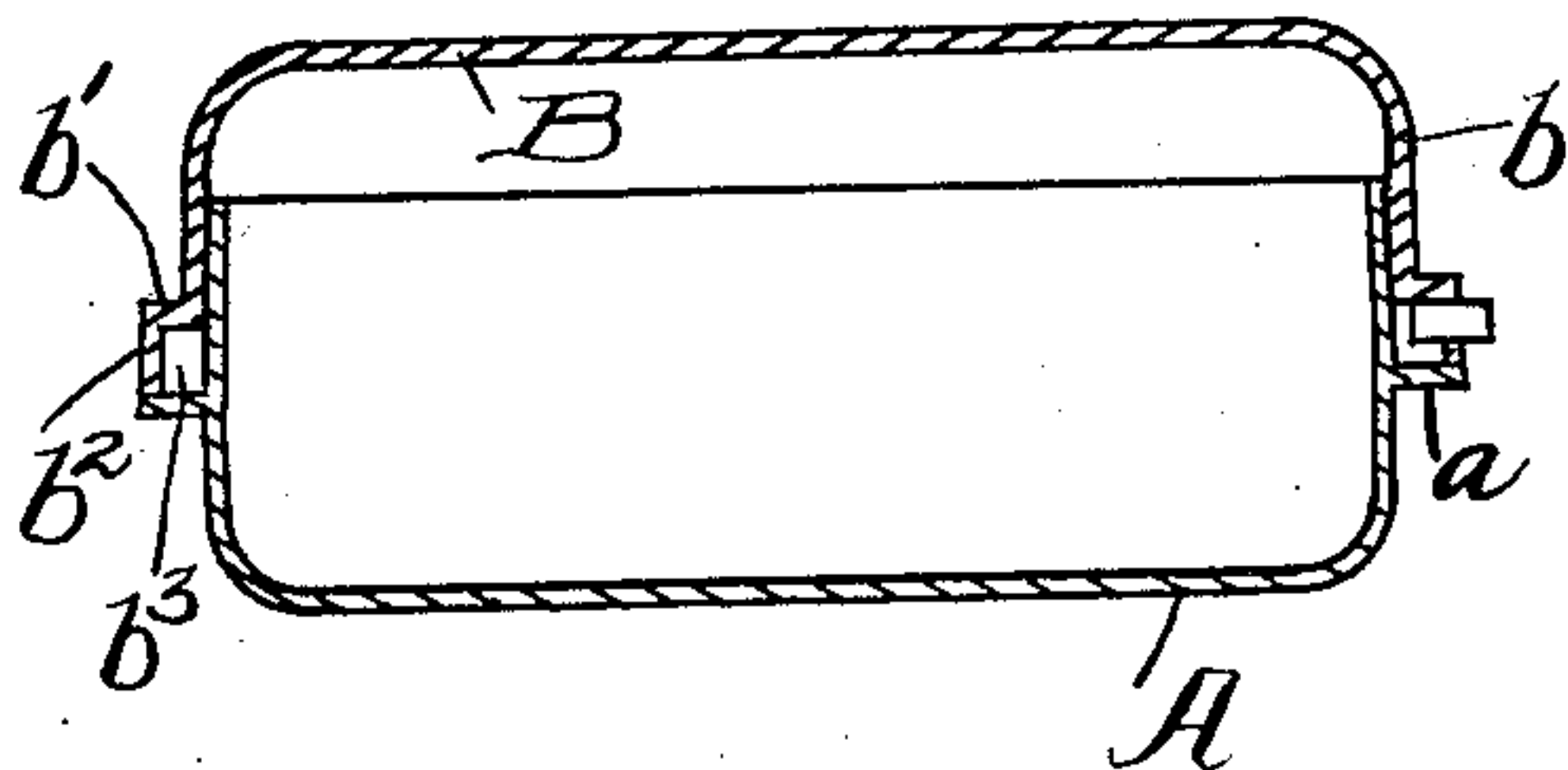


Fig. 2

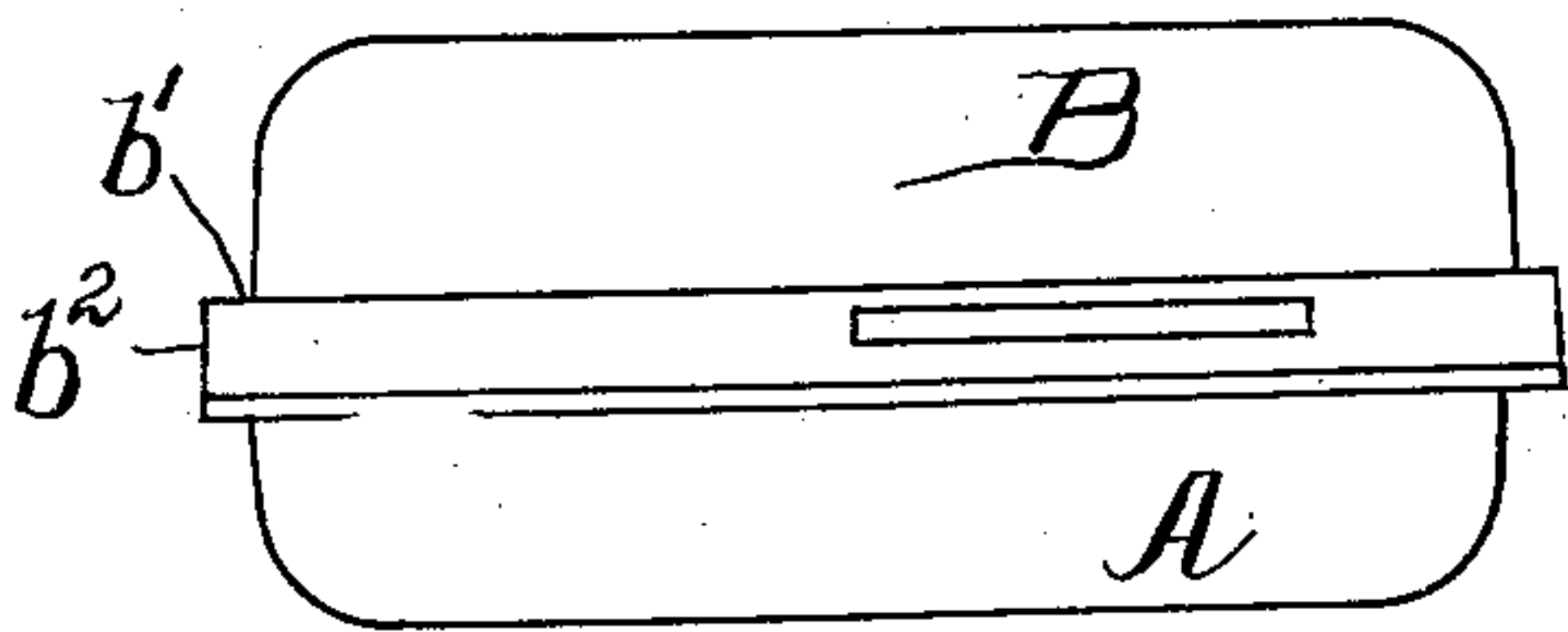


Fig. 4.

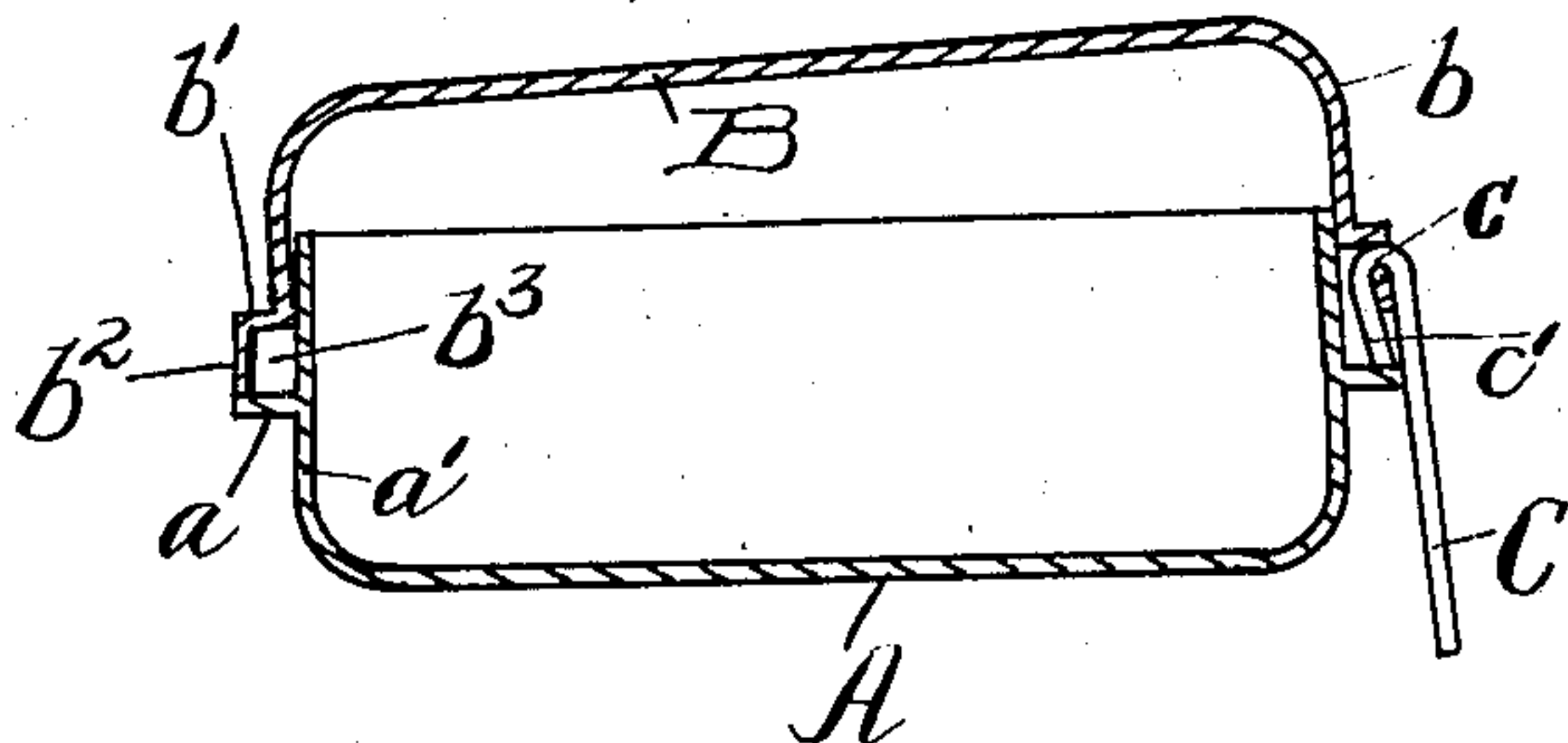
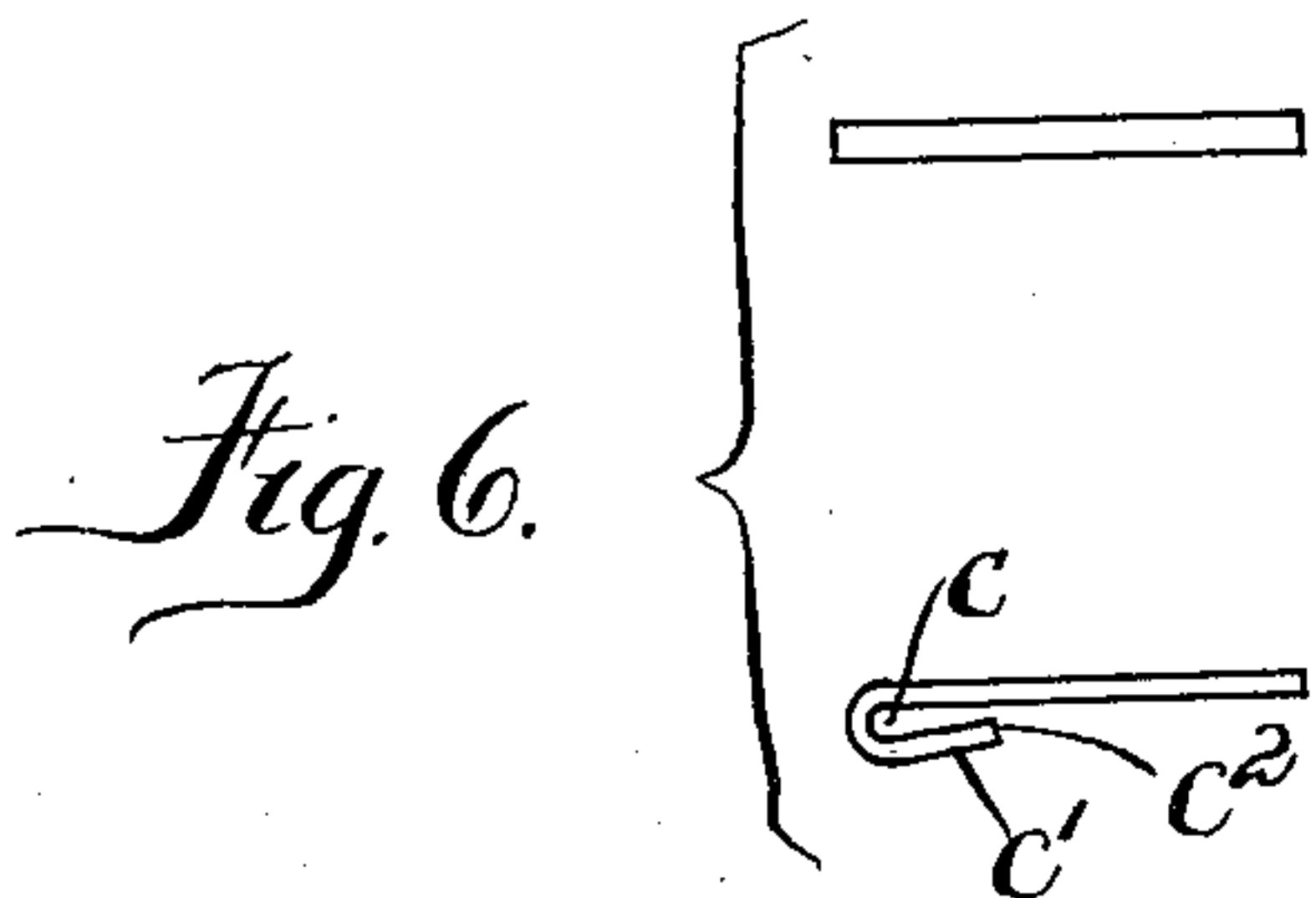
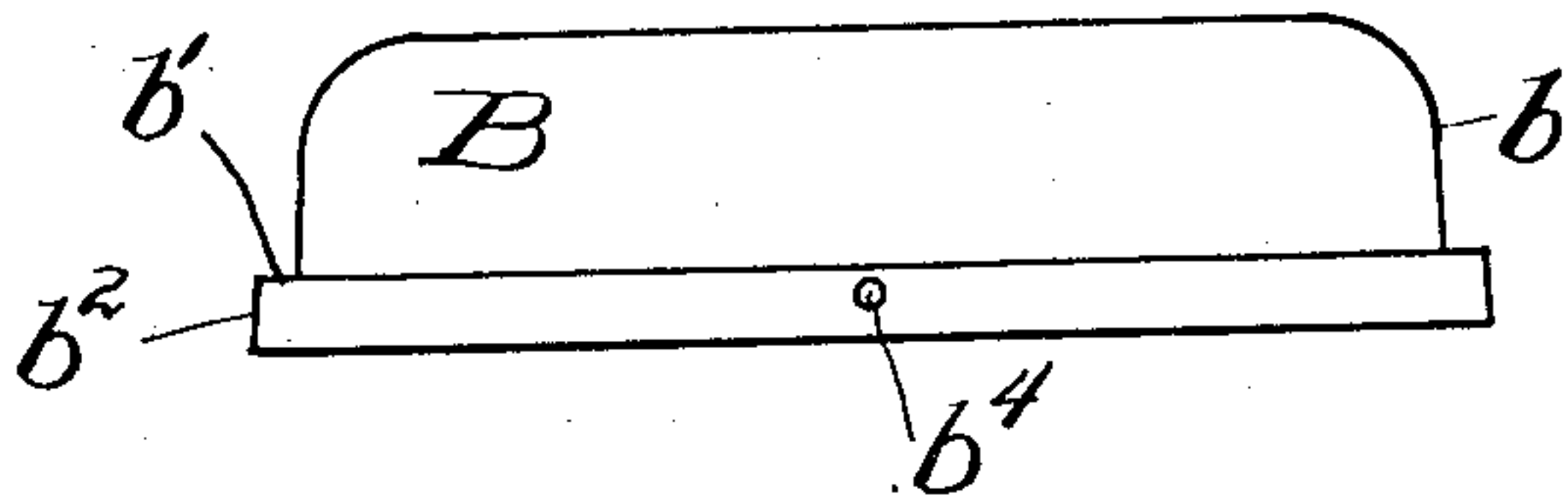


Fig. 5



Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

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BOX.

938,590.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that I, MADISON M. KING, a citizen of the United States, residing at Albany, in the county of Albany and State of New York, have invented certain new and useful Improvements in Boxes; and I do hereby 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.

This invention appertains to boxes or containers, particularly to metallic boxes, wherein the frictional contact between the lid or cover thereof and the box-body is such as to entail considerable effort and exertion in the operation of removing the lid or cover from the box-body; the covers often times being removed with great difficulty, rendering the task of removal irksome and annoying.

Wherefore, the great aim and object of my invention is to provide a peculiar construction of box and box-cover and a lever-device, permitting quick and easy removal of the lid or cover, with a minimum degree of effort and exertion.

A secondary and subsidiary, but important, object of my invention is the construction of the box and lid whereby the opening-device or lever-attachment carried by my box will not interfere, in the least, with the capability of my box to be air- and dirt-tight.

With these objects in view, the invention consists of the novel construction, combination, and arrangement of parts, as will be hereinafter fully described in the specification, summed up in the claims, and illustrated in the drawing.

In the accompanying drawing, forming part of my application for patent, and in which like letters of reference denote corresponding parts throughout the several views: Figure 1 is a top plan view of my box, carrying my opening-attachment or lever; Fig. 2 is a side elevation thereof; Fig. 3 is a section through line 3—3, Fig. 1, the lid or cover being in the normal closed position; Fig. 4 is a section through the same line, showing the position of the parts when the opening-device or lever has been operated; Fig. 5 is a side elevation of the box-cover or lid; Fig. 6 is a collective detail view of the opening device or lever.

Referring, now, in detail to the drawing: A represents a box-body, in this instance shown as circular in horizontal cross section, though it is to be understood, of course, that this is merely illustrative, and that the spirit of the invention is not confined to the general contour of the box-body shown, since, so far as the principles of my invention are concerned, the box-body may, with equal propriety, be of other shapes, as square, oval, hexagonal, or the like.

The box may be of any material, such as metal, wood, or the like; in this instance, the invention is described as applied to a metallic box.

The box-body A is provided on its side with a circumferential flange *a*, which may be disposed medially of the top and bottom of the box-body, as shown, though the exact point on the side of the box-body at which the said flange is disposed is entirely immaterial.

B represents the box-lid or cover, provided with the usual side *b* to engage and closely hug the side *a'* of the box-body, as customary. The side *b* terminates in a circumferential, horizontal flange *b'*, terminating, in turn, in a circumferential, down-turned extension *b*², which rests squarely on top of the flange *a* when the lid B is completely seated on the box-body A, as shown most clearly in Fig. 3; this peculiar structure being very important, as it affords an air- and dirt-tight closure, obviating the danger of the contents of the box drying or spoiling. The side *a'* of the box-body A, the flange *a*, the flange *b'*, and the extension *b*² thus inclose a chamber *b*³, isolated from the interior chamber C of the box. The extension *b*² is provided with a perforation or aperture *b*⁴. Passing through said aperture is a lever C, having a hooked, upper end *c'*, the walls of the aperture *b*⁴ engaging the hook in the crotch *c* thereof.

From the above detailed description of the different parts of my invention, and their assemblage, it is believed that the coöperation thereof and the operation of the device will be apparent; but, briefly stated, the cooperation of the parts and the operation of the device are as follows: When the box-lid or cover is firmly closed over the box-body A (as in Fig. 3), the lever is in a horizontal, or substantially horizontal, position, as shown in Figs. 1 and 2. Now, to open the

lid, press down upon the lever C. This will bring the lower end c^2 of the lever into contact and engagement with the flange a and continued movement downward of the lever will necessarily force upward, or tilt, the lid or cover B, as graphically shown in Fig. 4, until part of the lid has disengaged itself from the box-body, whereupon, it is, of course, very easy to remove the lid, with no effect or exertion.

I am aware that the invention is susceptible of alteration as regards details; but all such changes in detail, not affecting the spirit of the invention and coming within the terms of the appended claims, constitute no departure from the invention and fall within the purview thereof.

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

1. A box provided with a box-body, having a flange, and with a removable lid or cover, having a horizontal flange terminating in a

down-turned, perforated extension resting on said box-body flange, and an opening-device, comprising a lever passing through said perforation and having a bent end bearing against said box-body flange.

2. A box provided with a box-body, having a circumferential flange, and with a removable lid or cover, having a circumferential, horizontal flange terminating in a circumferential, down-turned, perforated extension resting on said box-body flange, and an opening-device, comprising a lever passing through said perforation and having a bent end bearing against said box-body flange.

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

MADISON M. KING.

Witnesses:

JOS. BEDELL,
MORGAN SPEER.