

No. 632,505.

Patented Sept. 5, 1899.

R. B. WILLIAMSON.
CAKE TIN.

(Application filed Feb. 6, 1899.)

(No Model.)

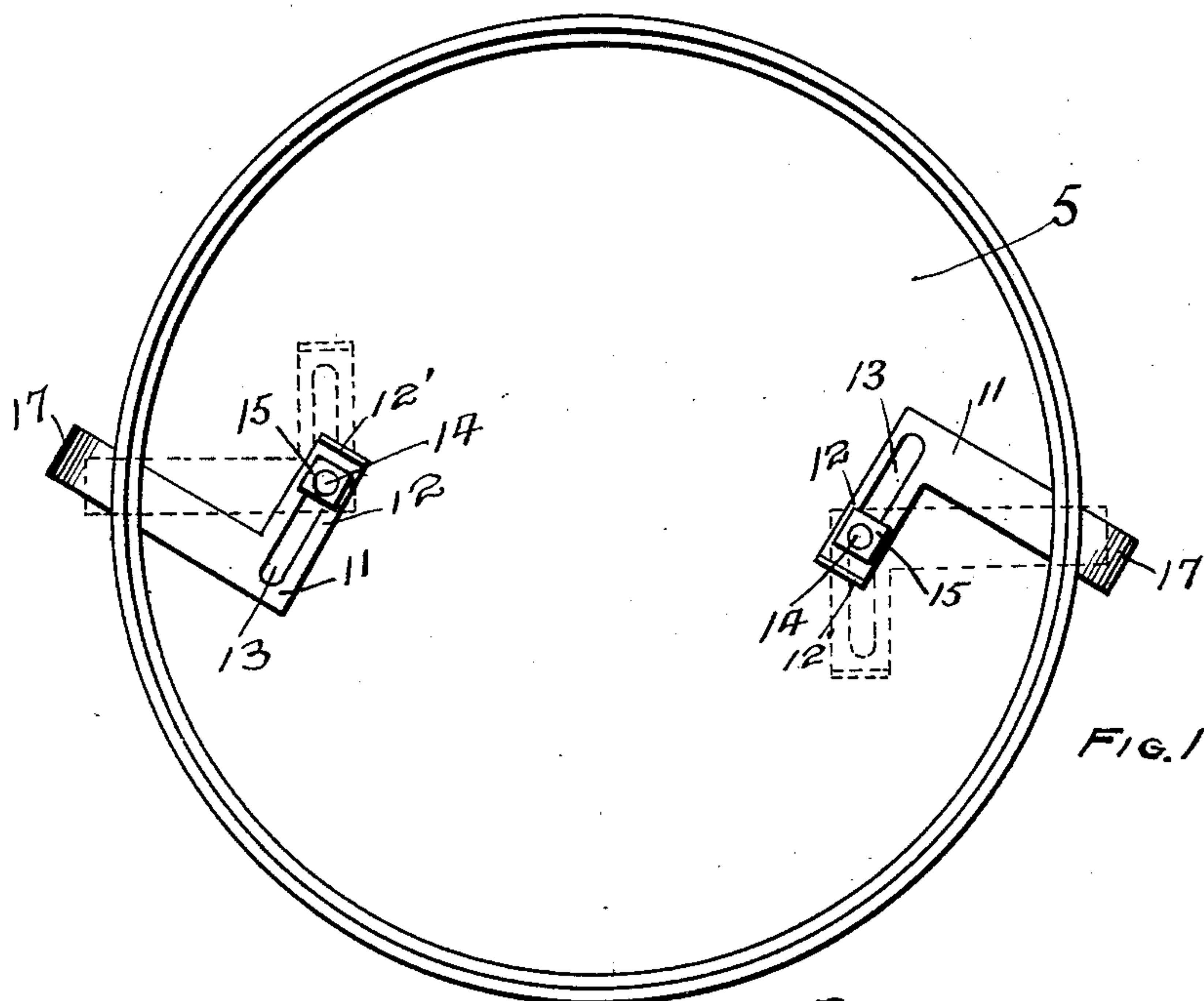


FIG. 1

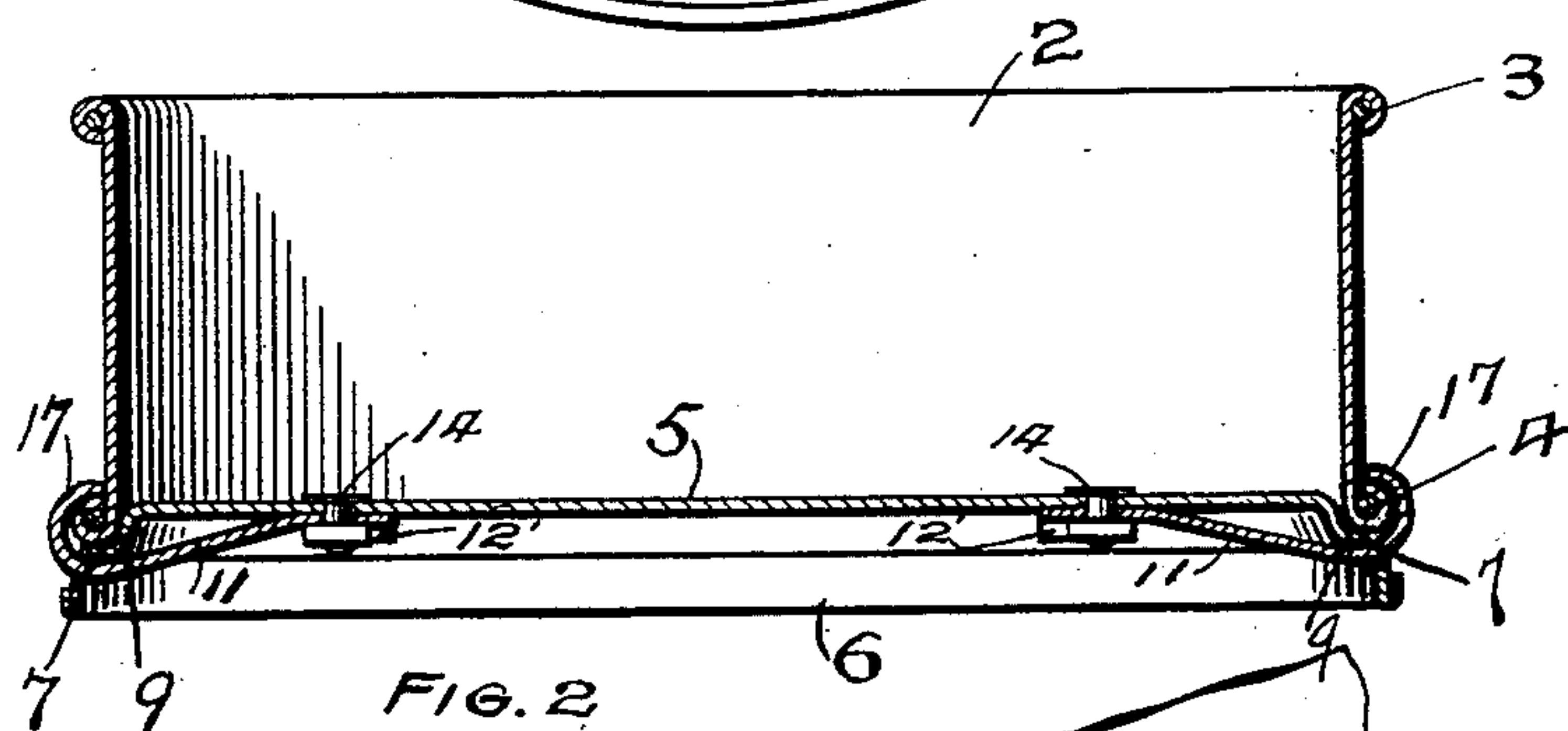


FIG. 2

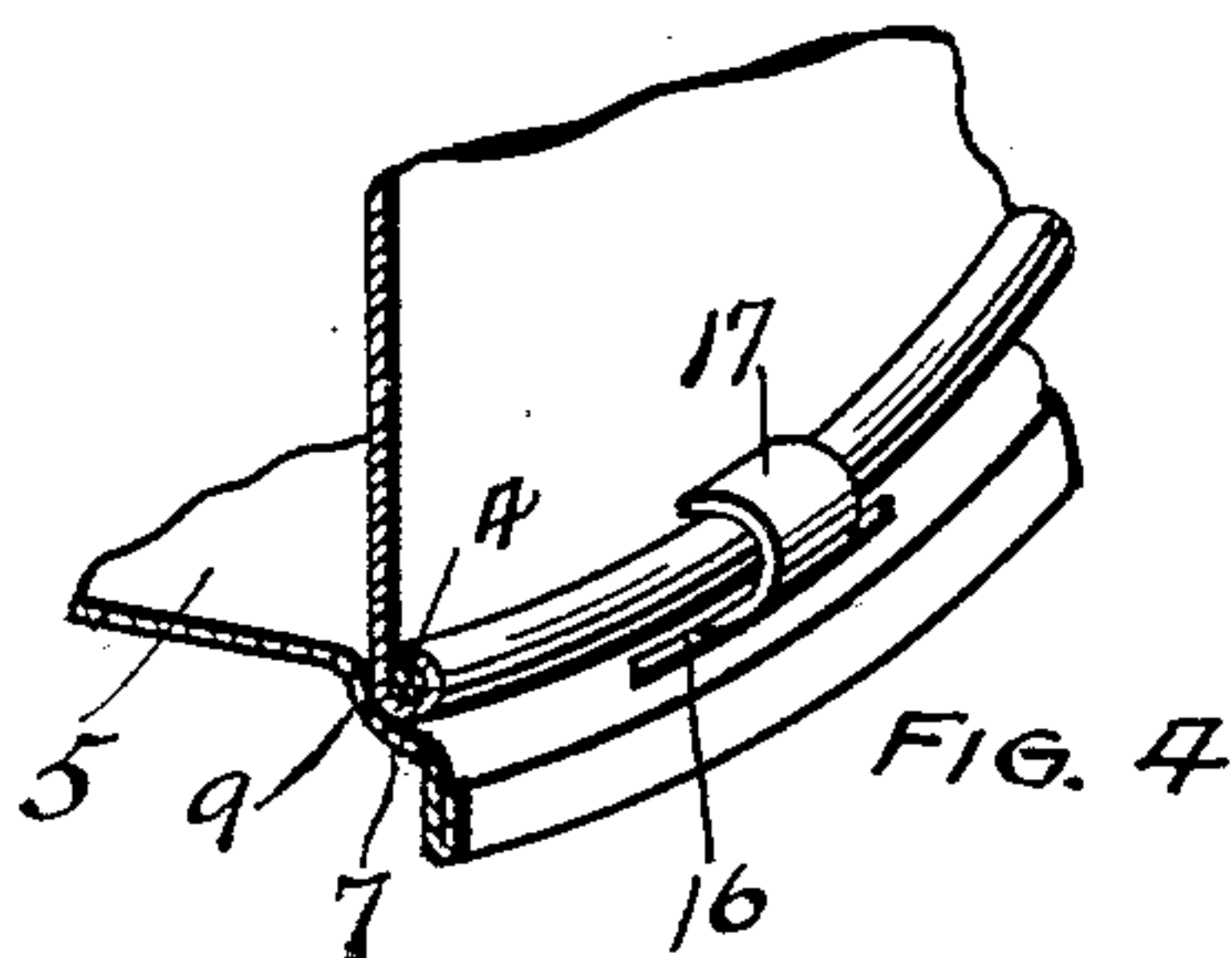


FIG. 4

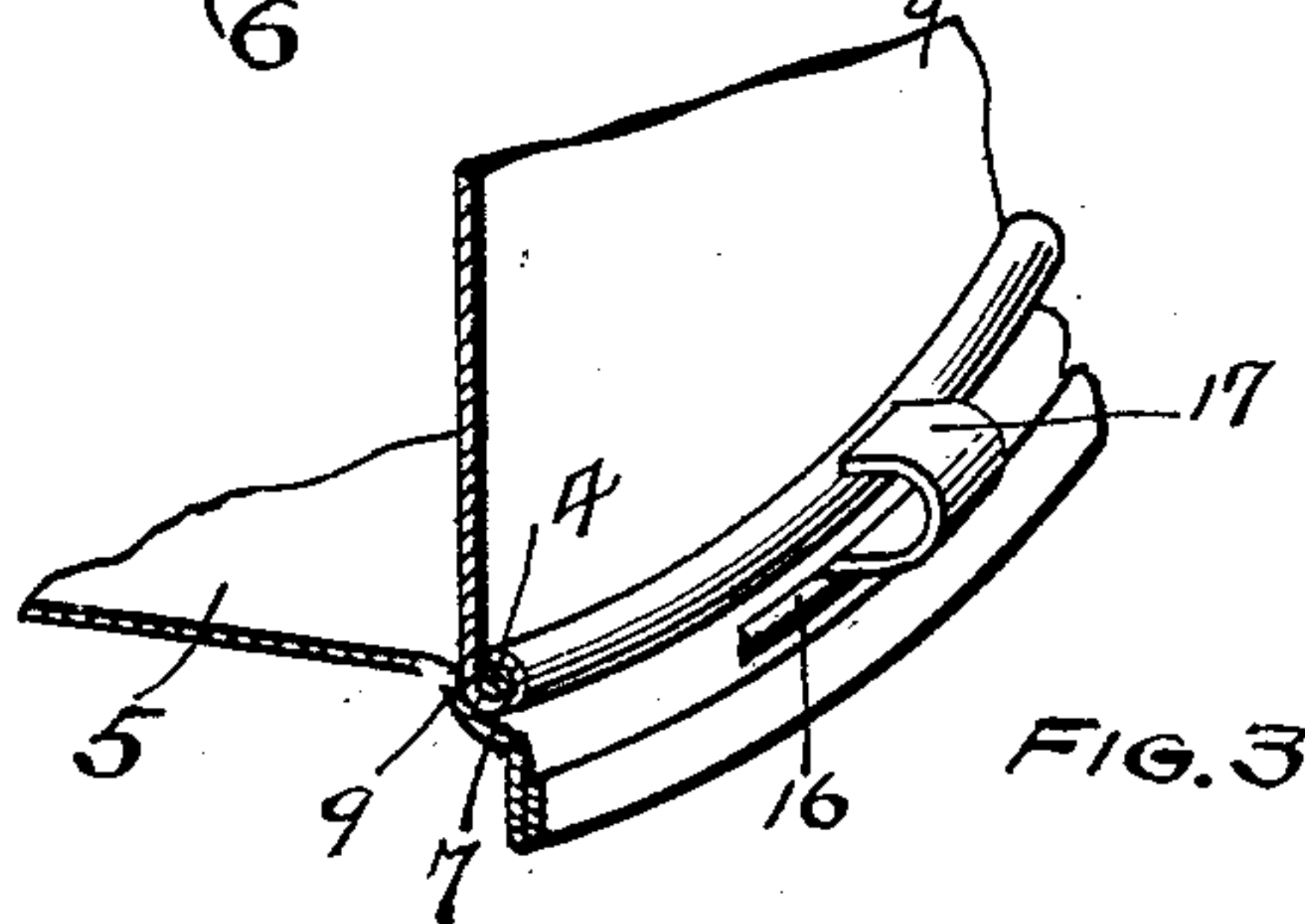


FIG. 3

WITNESSES:
E. G. Stause
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INVENTOR,
RUSSELL B. WILLIAMSON
BY *Paul Hawley*
HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

RUSSELL B. WILLIAMSON, OF CLIFTON SPRINGS, NEW YORK, ASSIGNOR OF
ONE-HALF TO EDWARD G. WILLIAMSON, OF SAME PLACE.

CAKE-TIN.

SPECIFICATION forming part of Letters Patent No. 632,505, dated September 5, 1899.

Application filed February 6, 1899. Serial No. 704,637. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL B. WILLIAMSON, of Clifton Springs, Ontario county, New York, have invented certain new and useful
5 Improvements in Cake-Tins, of which the following is a specification.

My invention relates to cake or baking tins having removable bottoms to facilitate the ready removal of the cake or bread; and the
10 objects of the invention are, first, to provide means for locking the bottom and the body of the tin together, which will hold the parts securely until such time as it is desired to empty the tin of its contents; second, to provide
15 locking means which cannot get out of order, will not be in the way of the person using the tin, and being attached permanently to the tin cannot be lost; third, to provide locking means which are extremely simple in
20 construction and operation, and consequently will not get out of order, and occupying but little space will require no extra room in packing the tins for shipment.

The invention consists generally in a ring
25 or hoop forming the side walls or body of the tin, a removable bottom plate, and means carried by said bottom plate for locking said plate and said ring or hoop together.

Further, the invention consists in a ring or
30 hoop, a removable bottom plate therefor, and pivoted devices arranged upon the under side of said plate and having hooked ends to engage the lower edge of said ring or hoop.

Further, the invention consists in various
35 constructions and combinations, all as hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan
40 view of the under side of a cake-tin embodying my invention. Fig. 2 is a transverse vertical section of the same, showing the locking devices in a locked position. Fig. 3 is a detail showing the parts of the tin placed together in position for locking. Fig. 4 is a
45 similar view showing the parts locked together.

In the drawings, 2 represents the ring or hoop, preferably of tin, forming the upper

or body portion of the cake-pan. This ring 50 at the upper and lower edges is preferably wired and has its edges turned over the wires, forming beads 3 and 4 at the top and bottom of the ring or walls of the tin. These beads are formed upon the outside surface of the
55 ring, so that its inner surface is perfectly smooth and in no way interferes with the removal of the cake or bread. The ring I have shown in the drawings circular in form; but I do not confine myself to this shape, as it
60 may be made square or polygonal in form, if preferred.

The bottom of the tin or pan consists of a removable plate 5, preferably of tin, having a depending flange 6 formed in its edge and
65 a ledge or groove 7 and an inclined wall 9, the diameter of the plate 5 at the point where the annular ledge or groove is formed corresponding substantially to the diameter of the hoop or ring 2, so that when the parts are
70 placed together the lower edge of the hoop or ring will rest upon the inclined wall 9, and by pressing the ring and plate together the lower edge of the ring will be forced into the ledge or groove 7 and a tight joint will be formed
75 between the walls of the tin and the bottom plate. It is desirable, however, to provide some means for firmly locking the plate and ring together in such a manner that they cannot become accidentally disengaged while the tin
80 is in use. I therefore prefer to provide plates 11, one upon each side of the bottom plate, or more, if preferred, said plates 11 having lateral extension 12, preferably right-angled, provided with a longitudinal slot 13 to receive
85 a stud or bolt 14, provided in the bottom plate and held on said stud or bolt by a nut 15 and freely movable thereon the distance of the slot 13. The outer ends of the plates 11 extend through slots 16, provided in the
90 opposite sides of the depending flange 6, and said outer ends are upwardly turned, forming hooks 17 to extend up over the bead 4, as shown, and when the plates 11 are moved to the position indicated by dotted lines in Fig. 95 1 said hooks will engage the bead 4 and draw the lower edge of the ring or hoop firmly against the shoulder 7 and the inclined por-

tion 9 of the bottom plate, thus locking the parts firmly together. To facilitate the movement of the plates 11, I prefer to provide turned-up ends 12' on the extensions 12 to be grasped by the fingers of the operator.

It is obvious that when the plates 11 are moved to the position indicated by full lines in Fig. 1, so that the bolts 14 are at the outer ends of the slots 13, the distances between said bolts or pivotal points and the outer hooked ends of said plates 11 will be greater than when said bolts are at the inner ends of said slots. Consequently when in the former position the hooks 17 will be disengaged from the bead at the lower end of the ring or body of the tin, and the separation of said body and the bottom plate will be permitted. Upon moving the plates 11, so that the bolts or pivots 14 will be at the inner ends of the slots 13, the hooked ends of said plates will be drawn in to engage the body of the tin and lock the body and bottom plate securely together.

I have shown only two locking devices on my improved tin or pan, but the number may be increased, if preferred, and while I have shown the bottom plate flat it may be concave entirely across its surface, or it may be concave to its middle portion and there provided with an upright central tube. All these modifications, however, would be obvious to any one skilled in the art, and are not such changes that would constitute a departure from the spirit of my invention.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent—

1. In a cake-tin having a removable bottom, locking devices comprising plates 11 having at their inner ends lateral extensions 12, provided with longitudinal slots 13 to receive studs or pins upon the bottom plate and said plates 11 having hooks at their outer ends to engage the body of the tin, and lock the same and the removable bottom firmly together, substantially as described.

2. In a cake-tin or baking-pan, having a removable bottom, locking devices comprising plates 11 having their inner ends provided with longitudinal slots 13 to receive studs or pins upon the bottom plate and said plates 11 having hooks at their outer ends to engage the body portion of the tin and lock the same and said bottom plates firmly together, substantially as described.

3. A cake-tin or baking-pan, comprising a ring or hoop forming the body of the tin and a bottom plate fitting within the same, said plate having a depending flange provided with slots 16, independently-operable plates 12 slidably secured to said bottom plate and having their outer ends projecting through said slot 16 and engaging the edge of said ring or hoop, for the purpose specified.

In witness whereof I have hereunto set my hand this 1st day of February, 1899.

RUSSELL B. WILLIAMSON.

In presence of—

JAS. H. WICKS,
S. J. FLACK.