

*G. M. Donald,*

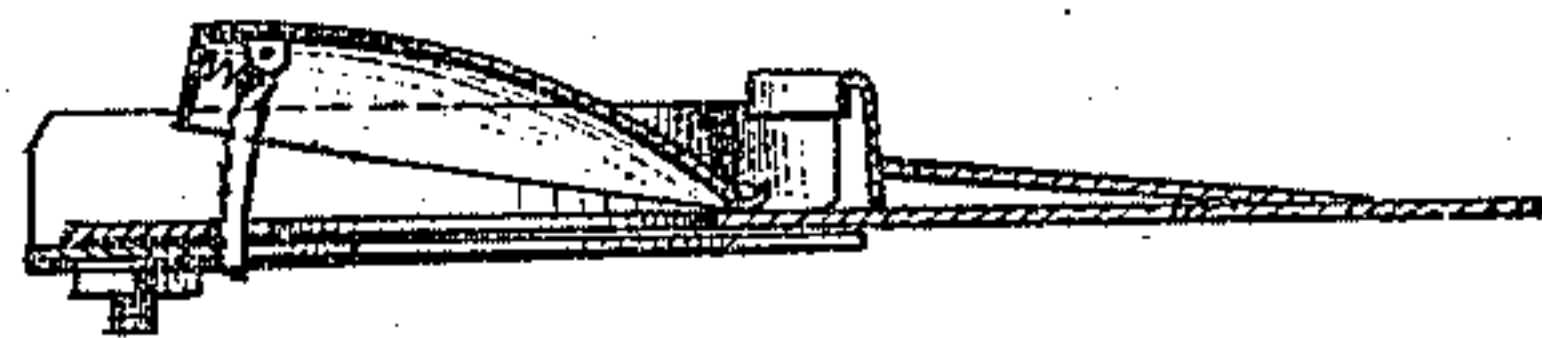
*Dentists' Impression Cup.*

*No. 95126.*

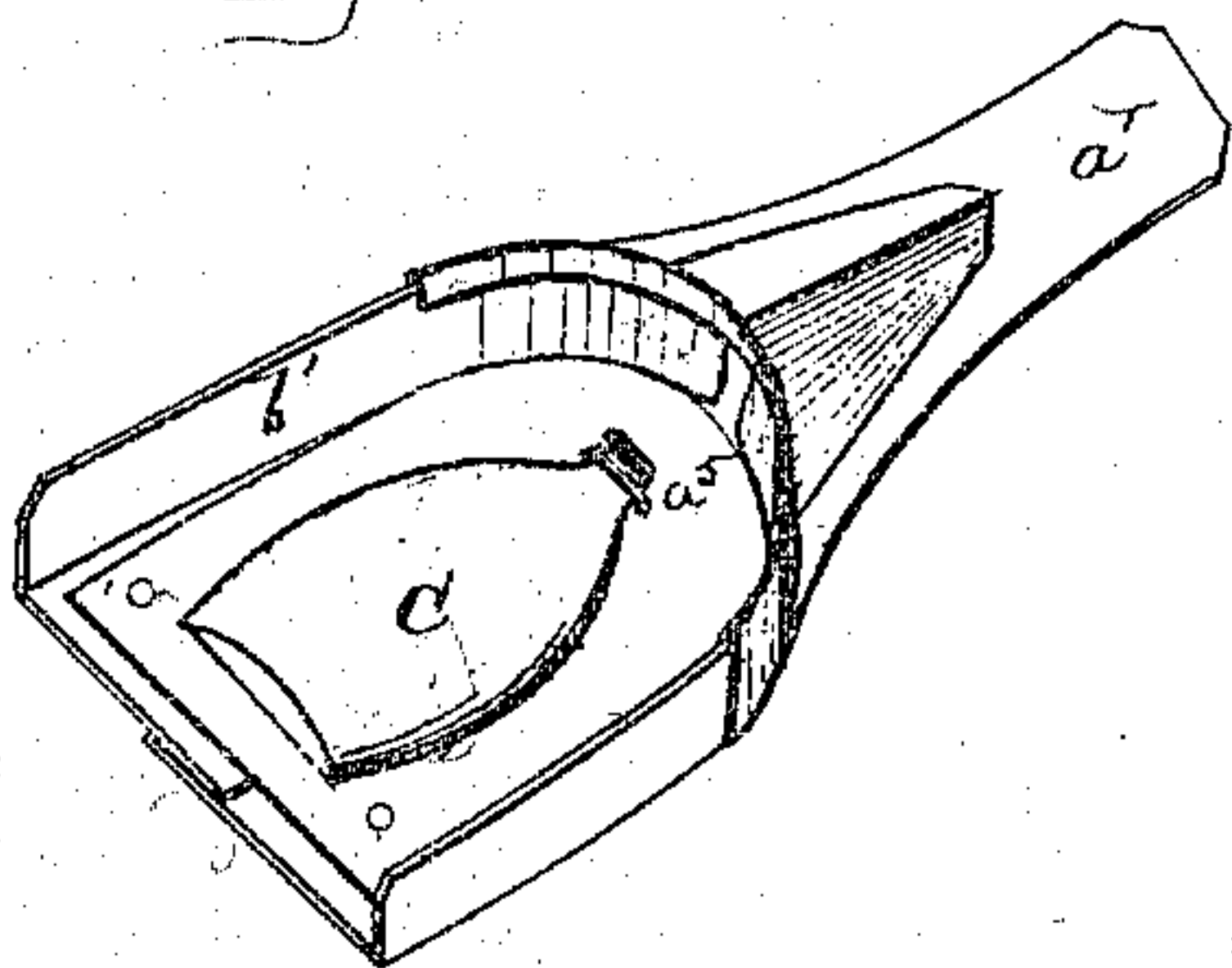
*Patented Sept. 21. 1869.*

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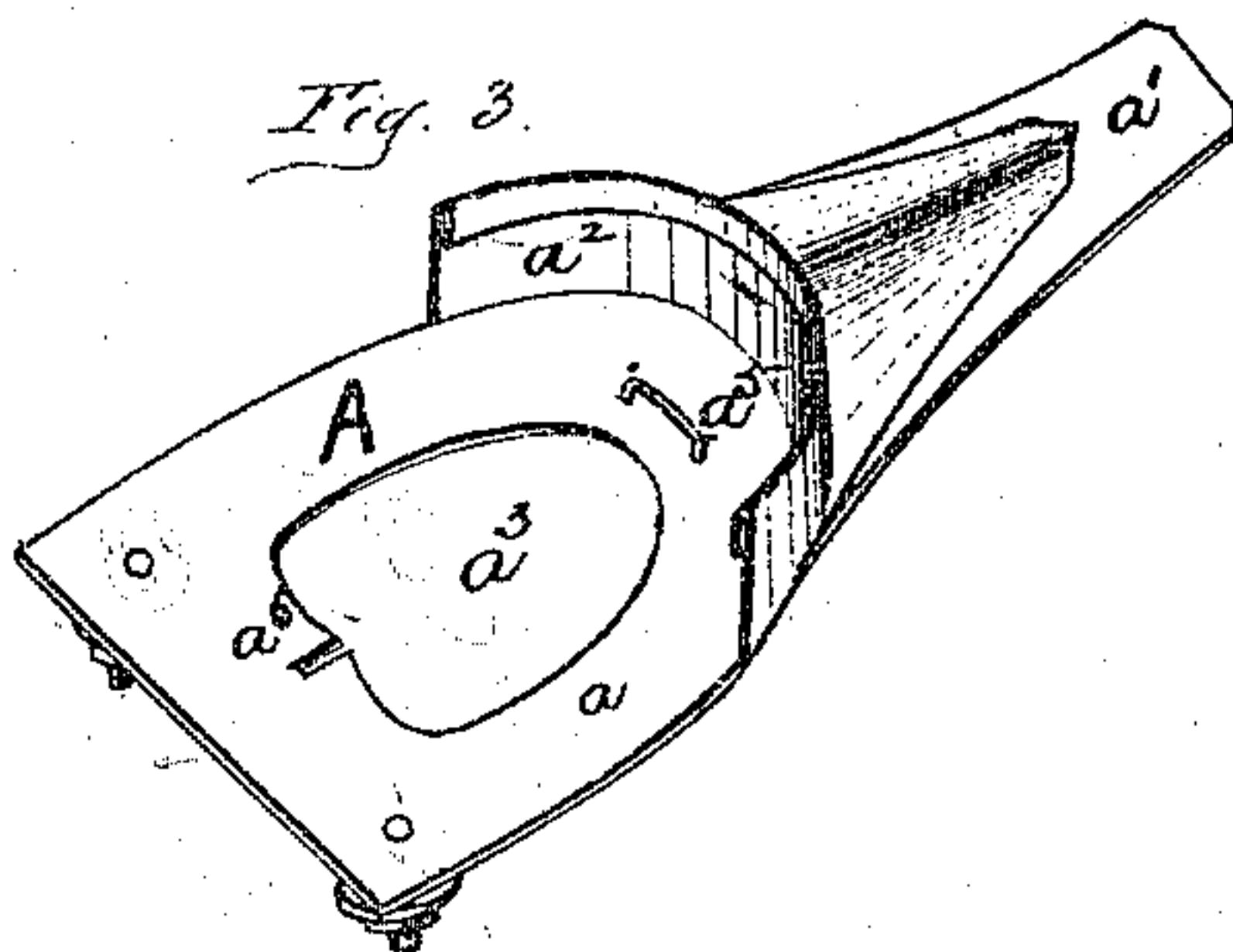
*Fig. 1.*



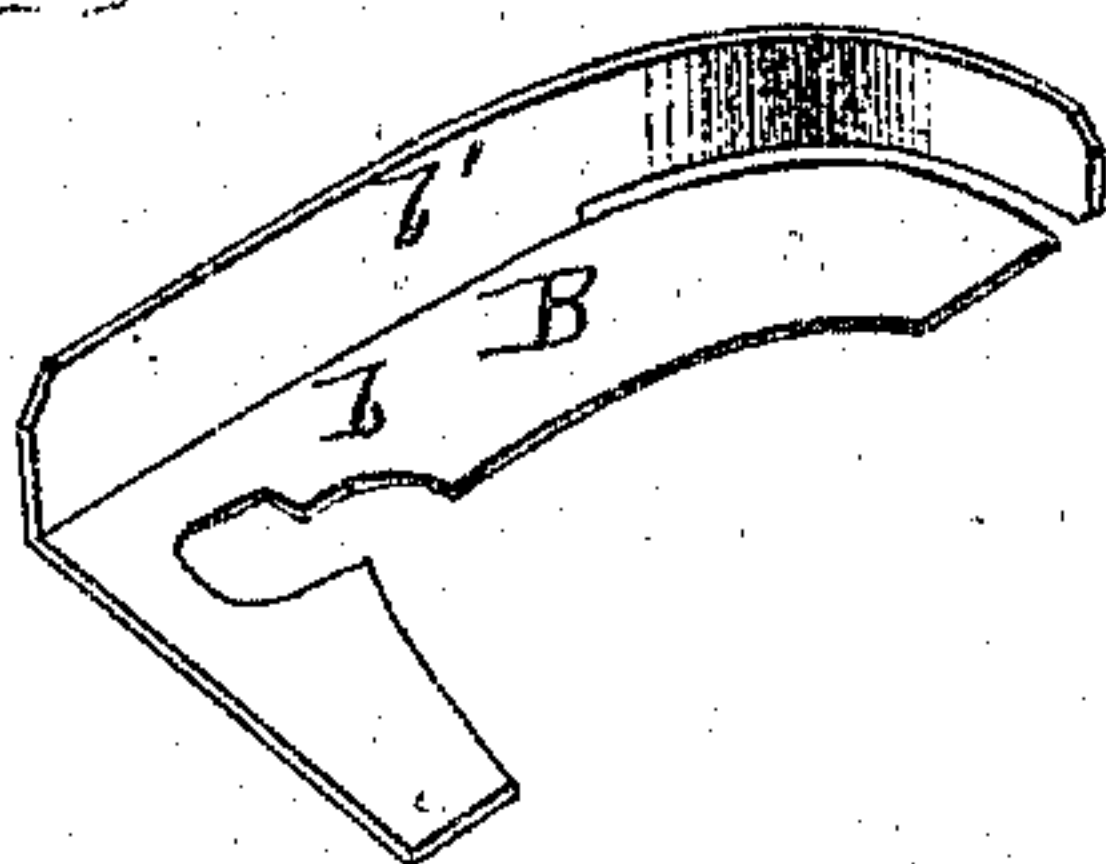
*Fig. 2.*



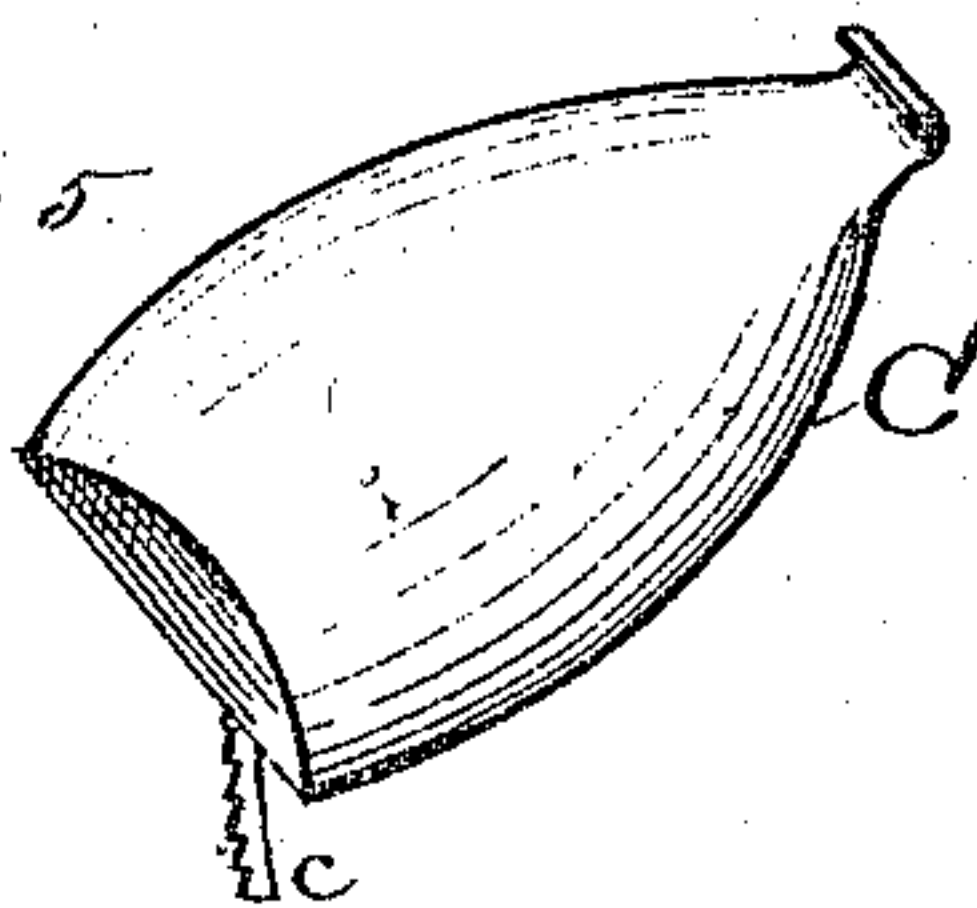
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



*Witnesses.*  
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# United States Patent Office.

G. McDONALD, OF ATHENS, GEORGIA.

Letters Patent No. 95,126, dated September 21, 1869.

## IMPROVED DENTISTS' IMPRESSION-CUP.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, G. McDONALD, of Athens, in the county of Clark, and State of Georgia, have invented a new and useful Improvement in Dentists' Impression-Cup; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improved cup for taking impressions of the roof of the mouth, preparatory to the making of artificial teeth; and

It consists, mainly, in providing the bottom of the cup with a flap or movable piece, which, when the cup is filled with wax or other suitable material, and is pressed into place in the mouth, may be forced upward and laterally with the finger of the operator, and thus crowd the material into every irregularity of shape in the parts to be taken.

It also consists in providing the cup with adjustable sides and bottom, by means of which it may be made wider or longer at pleasure. It can be used for an entire set or for any part of a set, with equal convenience and success, by removing one or both sides. It can be taken apart entirely, and put together again ready for use, in less than half a minute of time.

In the drawings—

Figure 1 represents a central sectional elevation;

Figure 2, a perspective view of the device complete;

Figure 3, a perspective view of the base;

Figure 4, a detached view of one of the sides; and

Figure 5, a detached view of the flap.

To enable others skilled in the art to make and use my invention, I will now describe fully its construction and operation.

A represents the base or main part of the cup, which is provided with the handle  $a^1$ , base  $a$ , flange  $a^2$ , and orifice  $a^3$ .

B represents one of the side pieces, which is provided with bottom  $b$ , and flange  $b'$ , which is so cut and shaped at the front end, that while the bottom  $b$  passes under the base-plate A, flange  $b'$ , with a spring end, passes under the lip of flange  $a^2$ , and is held firmly in place, while the rear end is held in any desired position by a set-screw under the base-plate A, there being an open slot in bottom  $b$  to allow the necessary movements, or for its entire removal when desired.

C represents a convex or oval movable flap, which may be either hinged or otherwise attached to the base. I preferably attach it by simply a bent catch, which hooks under a bar,  $a^5$ , as shown in the drawing. By this arrangement the flap is instantly removed when desired. Its shape presses the wax in every direction.

To retain this flap in any desired position when the operation is complete, and the cup is ready for removal from the mouth, I provide it, on its lower side, with a spring-bar,  $c$ , having a serrated edge or teeth, which, engaging with the edge of the base A, in the slot  $a^6$ , acts as a ratchet to hold it in place.

The operation of my invention is as follows:

It is first adjusted in size or length by means of set-screws under the base-plate, and slots in the bottom plate  $b$ , as before described. The cup is then filled with wax or other suitable material, put in the mouth, and carefully pressed to its place, after the usual manner of taking impressions. When this is done, instead of withdrawing the cup, as is usual, the flap C is pressed upward by the finger of the operator, through the aperture in plate A, thus expanding the wax or other material in every direction, forcing it into every depression, at right angles with the surface that is being taken, and causing, by lateral pressure, the soft sides of the roof, and other soft parts to yield, till all the parts concerned are rendered of the same degree of hardness.

In this way, the difficulty so universally experienced of having the wax under perpendicular pressure to slide over the rugous, or rough, steep, and uneven surface of some mouths, and the want of lateral pressure, if taken in plaster, is completely obviated. By these combined advantages, the operator secures an impression that enables him, without loss of time, trouble, and money, to make a steady, firm, comfortable, and durable fit.

I do not limit myself to the precise construction herein described; but having thus fully described my invention,

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

1. In an impression-cup, the employment of a movable flap, for the purpose described.

2. In an impression-cup, the employment of movable sides, for the purpose described.

3. The flap C, having the spring-bar or ratchet  $c$ , when combined with the base A, as and for the purpose described.

4. The cup described, consisting substantially of the base A, sides B, and flap C, the whole being combined and arranged as and for the purpose described.

This specification signed and witnessed, this 21st day of June, 1869.

G. McDONALD.

Witnesses:

S. J. MAYS,

H. L. DEARING.