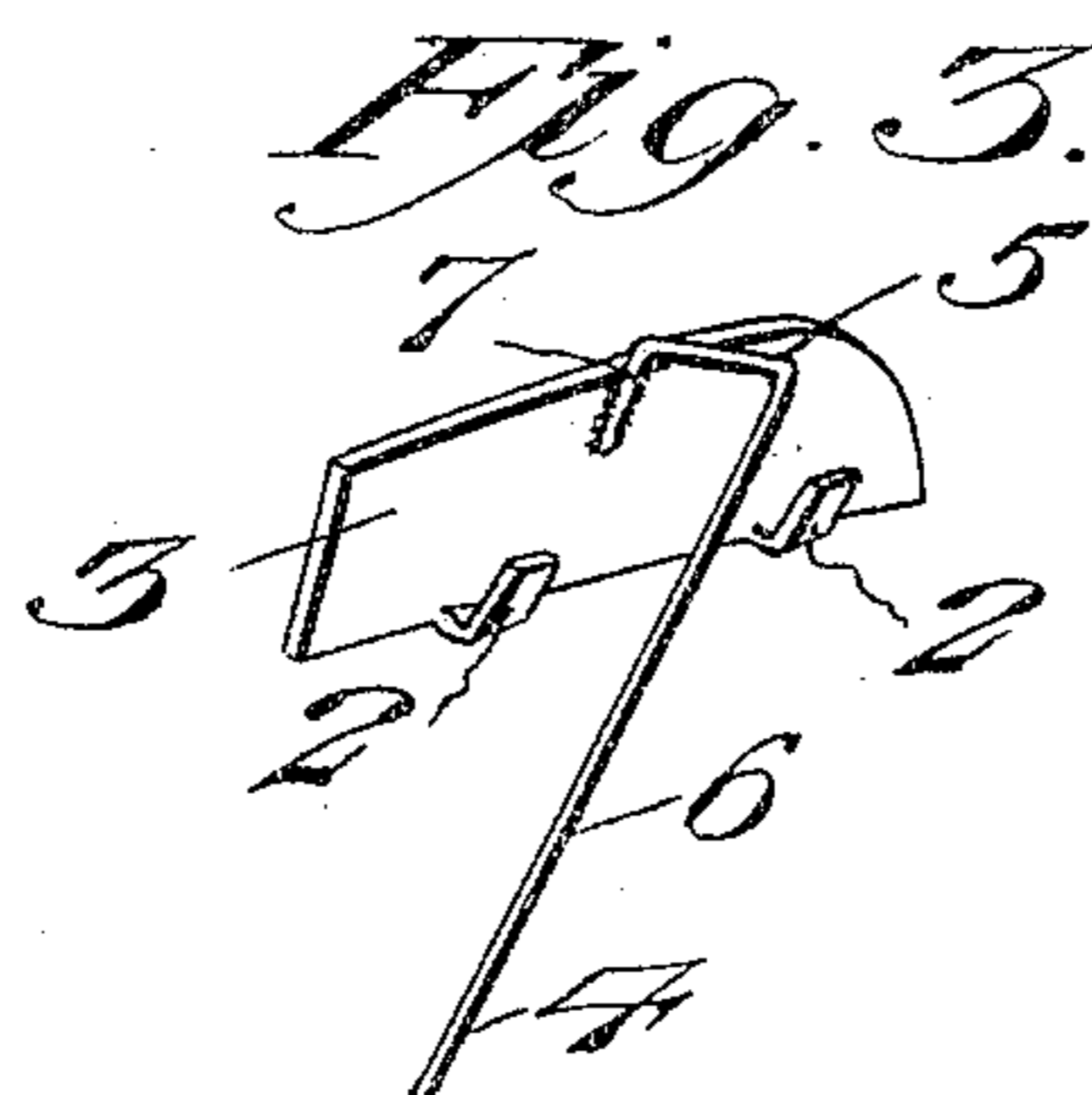
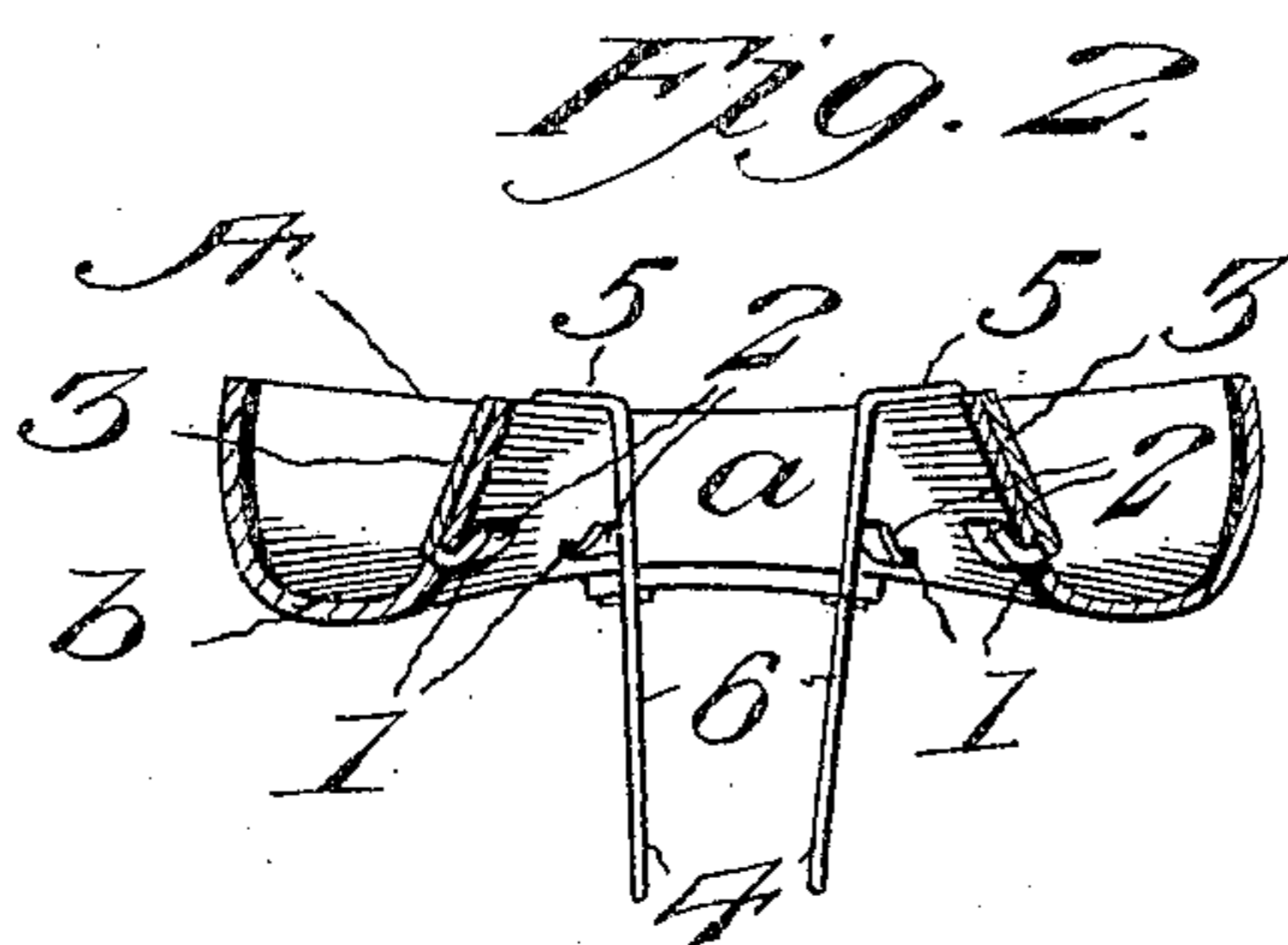
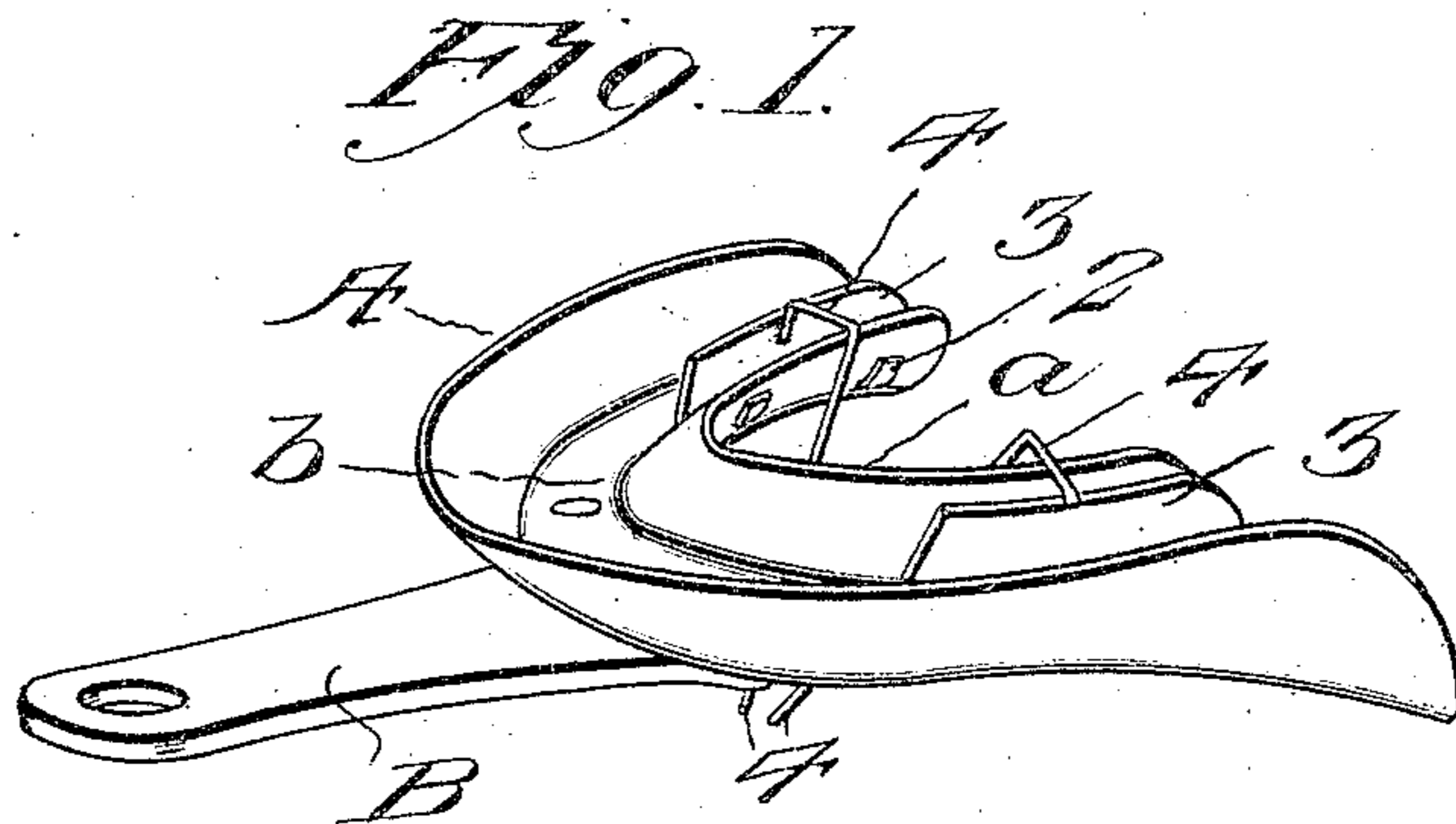


No. 789,908.

PATENTED MAY 16, 1905.

W. HARE.  
DENTAL CUP.  
APPLICATION FILED SEPT. 17, 1904.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM HARE, OF AUGUSTA, ILLINOIS, ASSIGNOR TO DR. HARE'S DENTAL DEVICE CO., OF DANVILLE, ILLINOIS, A CORPORATION.

## DENTAL CUP.

**SPECIFICATION** forming part of Letters Patent No. 789,908, dated May 16, 1905.

Application filed September 17, 1904. Serial No. 224,802.

*To all whom it may concern:*

Be it known that I, WILLIAM HARE, a citizen of the United States of America, residing at Augusta, in the county of Hancock and State of Illinois, have invented certain new and useful Improvements in Dental Cups, of which the following is a specification.

This invention relates to dentistry, but more particularly to that class known as "molds" thereunder.

The object of the invention is to provide novel means in combination with a dental cup whereby an impression of the lower jaw can be more effectually taken.

It also has for an object the provision of a device of this character wherein a plurality of movable wings are carried by a wall of the cup and said wings being supplied by means within easy access of the operator in order that the impression may be taken with expedition by the operator and with less annoyance or inconvenience to the patient.

An additional object of the invention is to provide an improved method of attaching the compression-wings.

A further object of the invention is to provide means for operating the wings whereby the movement of the plastic material employed in taking the impression is limited or confined, a feature which is found of great advantage in practice.

Further, the object of the invention is to produce a device of this character that is simple in construction, efficient in practice, and economical to manufacture.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully described and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming part of this specification, wherein like characters of reference denote corresponding parts in the several views, and in which—

Figure 1 is a perspective view of the device. Fig. 2 is a view, partly in section and partly in elevation, showing the invention in detail;

and Fig. 3 is a perspective view of one of the wings, said wing being shown detached.

In the drawings, A indicates the impression-cup, and B the handle therefor, connected thereto in any preferred or ordinary construction. The inner wall *a* of the cup is provided near each end with a series of apertures 1, adapted to receive the rounded lugs or projections 2, extending from an edge of the wing or plate 3 and formed integral therewith. The apertures 1 are formed near the base *b* of the cup, and the wings 3 are so shaped as to conform approximately to the contour of the inner wall *a* of the cup. The engagement between the lugs 2 and the wall *a* is such as to provide a pivot for the wing 3, which is thereby free to swing laterally. In a complete device there are two wings employed in the preferred construction, said wings being oppositely disposed; but of course any number of wings may be employed to meet any necessities that may arise. Secured in any suitable way to the free portion of each of the wings 3 is a lever 4 for operating the same. The said lever is provided at one end with the angular portion 5, which is adapted to bridge the edge of the wall *a*, and the stem 6 of the lever extends from the wall, preferably at an angle, to a suitable length, in order that it may be easily reached by the operator. When two wings are employed, it is the intention of the invention to have the levers 5 or the stem 6 thereof to converge, in order that an impression may be taken on both sides of the cup simultaneously. By having the levers connected to the free end portion of plates or wings the spreading of the plastic material employed is confined. As the pressure is exerted on the edge of the wings the mass is forced toward the base *b*, and is thereby most effectually confined and a much more satisfactory impression taken. The lever 5 may be connected to the wing or plate 3 by soldering or any other preferred means, and in practice it has been found advantageous to have a portion 7 of the angular end 5 to extend down a portion of the inner face of the wing.

From the foregoing description the oper-

ation and construction of the above invention, it is thought, will be fully understood by those skilled in the art, it being noted that all changes may be resorted to that fairly fall  
5 within the scope of the claims hereunto attached without sacrificing the value or spirit thereof.

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

1. In combination with a dental cup, a plurality of wings within the cup and pivoted to a wall thereof, and means secured to the wings and bridging the wall for imparting a move-  
15 ment to said wings.

2. In combination with a dental cup having

apertures in a wall thereof, a plurality of wings, and lugs formed on the wings and adapted to pass through the apertures.

3. In combination with a dental cup, a plu- 20  
rality of wings within the cup, said wings being pivotally connected at one edge to a wall thereof and means secured at the opposite por-  
tion of the wings and bridging the wall for  
imparting a movement to the said wings. 25

In testimony whereof I affix my signature, in the presence of two witnesses, this 15th day of September, 1904.

WILLIAM HARE.

Witnesses:

JACOB KLEPPER,  
S. E. McAFEE.