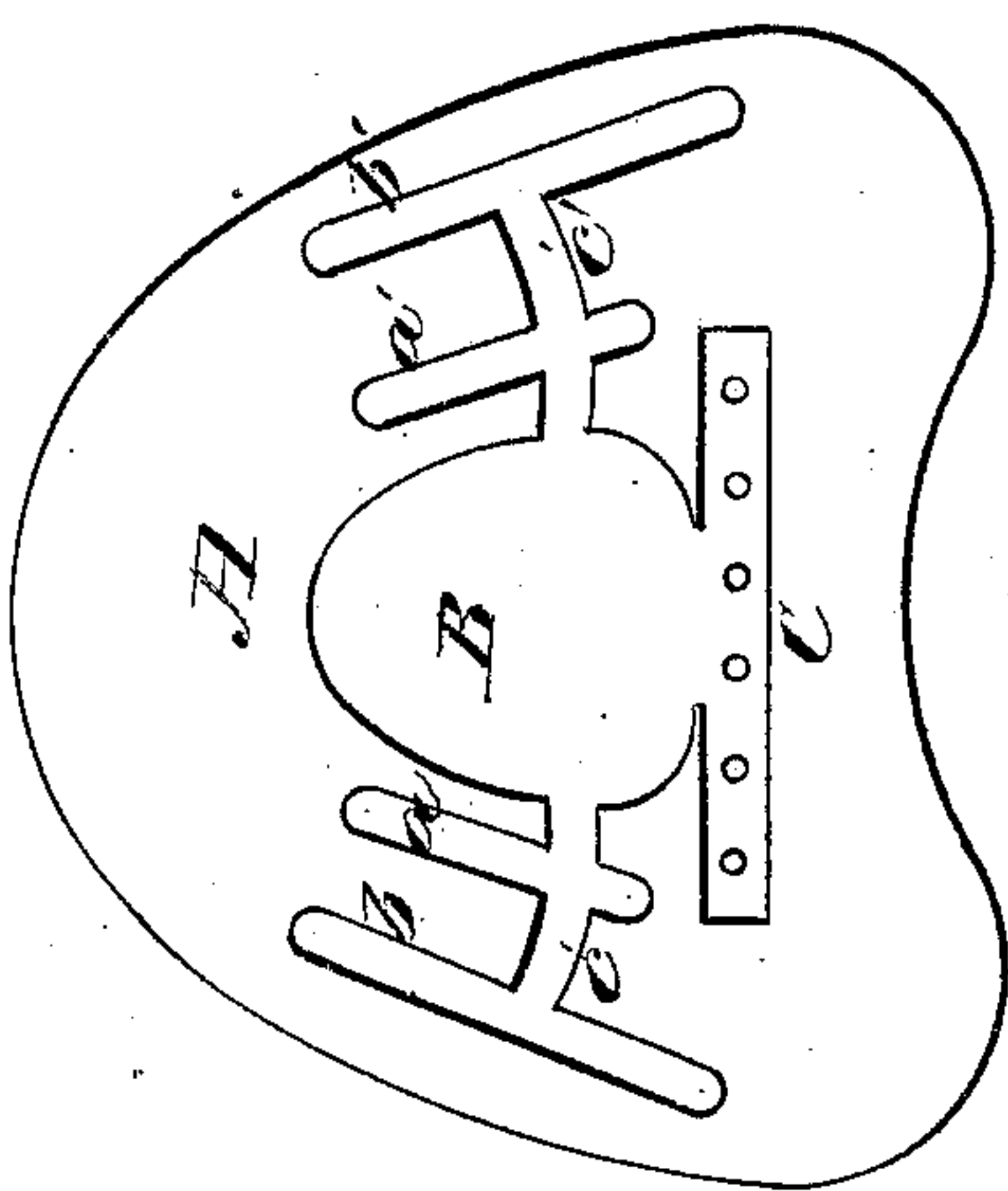
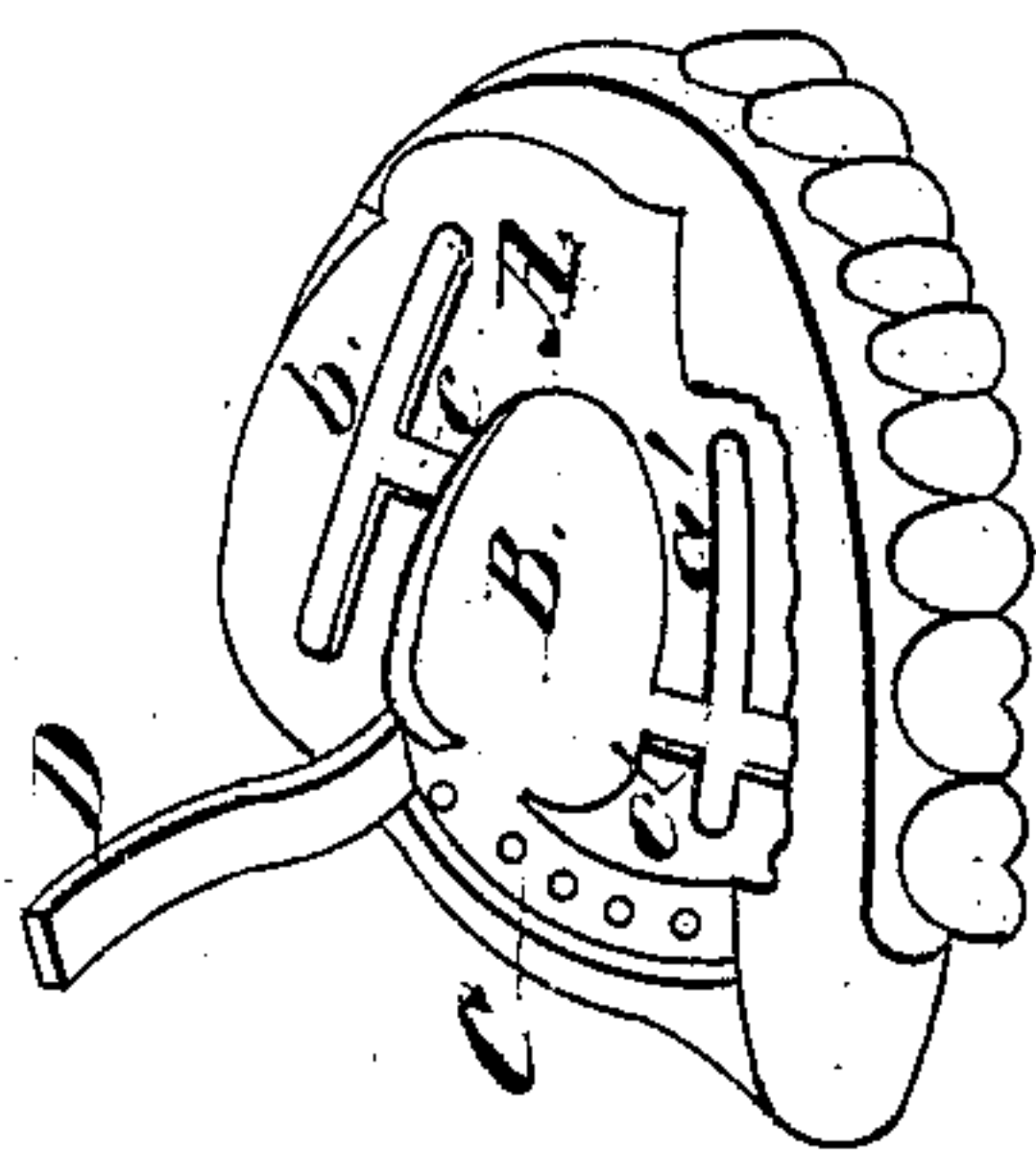


*D. S. Hutchison,*  
*Plate for Artificial Teeth.*  
*N<sup>o</sup> 78,669.      Patented June 9, 1868.*

*Fig. 2.*



*Fig. 1.*



*Witnesses:*

*John L. Boone*  
*Geo. H. Strong*

*Inventor:*

*David S. Hutchison*

*By his Atty's Dewey & Co*

# United States Patent Office.

DAVID S. HUTCHISON, OF SAN FRANCISCO, CALIFORNIA.

*Letters Patent No. 78,669, dated June 9, 1868.*

## IMPROVED PLATE FOR ARTIFICIAL TEETH.

*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, DAVID S. HUTCHISON, of the city and county of San Francisco, State of California, have invented an Improved Dental Plate for Artificial Teeth; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment.

The object of my invention is to provide a plate for artificial or false teeth, so constructed that there will be no danger of their loosening and dropping down when in use, and also to prevent the plate from irritating the palate, especially where the tissues of the alveolar and palatine arches are of unequal hardness.

My invention consists in having cavities of any desired form upon that portion of the plate corresponding to the external and internal borders of the alveolar ridge of the mouth, and connecting or not, as desired, with a chamber or cavity upon the central portion of the palatine arch; also, in having that portion of the plate which rests upon the palatine arch, or any part of it, composed of a flexible material or compound, thereby securing a more perfect adhesion of the atmospheric plate to the roof of the mouth.

In order to more fully illustrate and explain my invention, reference is had to the accompanying drawings, forming a part of this specification, of which—

Figure 1 is a perspective view, and

Figure 2 is a top view, showing the cavities.

A is a plate, to which artificial teeth are attached, having the usual atmospheric cavity, B, connecting with which are cavities or channels,  $a a'$ ,  $b b'$ ,  $c c'$ , made in the upper part of the plate, corresponding with the borders of the alveolar ridge of the mouth. Back of the atmospheric cavity B, where the plate comes in contact with the palatine arch, I make a cavity, C, a little deeper than the atmospheric cavity, and place in it any elastic or flexible material, D. I prefer unvulcanized India rubber. This rubber or elastic material is fastened down in the cavity by small pins at each end, which permit of its being detached, for the purpose of cleaning it. When this cushion is in place, it makes that portion of the plate slightly thicker than the parts surrounding it, so that when the plate is in the mouth, the elastic cushion will rest upon the most tender part of the palatine arch, and thus prevent irritation and soreness. The plate is held more firmly to the palate on account of the saliva, which finds its way under the elastic cushion, and prevents any access of air to the atmospheric cavity. These cavities may be varied, to suit any portion of the palate where there is any tendency to soreness.

This application of a flexible material may be made to all kinds of plates, such as gold, silver, platinum, aluminum, or porcelain, and the vulcanite base, to be used as obturator-plates in remedying defects of the soft or hard palates, or as a base of any kind for artificial teeth, in whole or partial sets.

By this means I have a suction-plate for artificial or false teeth that will not be continually loosening and dropping down, while the teeth will answer for the purposes of mastication, and are not liable, like the old plate, to loosen when the back teeth are used, and one that is altogether free from irritation.

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

A flexible cavity-plate, having, in part or in whole, the palatine portion of the plate made of flexible material, D, in connection with a compound cavity or series of cavities, united or otherwise with a cavity on the centre or palatine portion of the plate, and upon the internal or external (or both) borders of the alveolar ridge, substantially as and for the purpose specified.

In witness whereof, I have hereunto set my hand and seal.

D. S. HUTCHISON. [L. S.]

Witnesses:

C. W. M. SMITH,

GEO. H. STRONG.