

No. 729,621.

PATENTED JUNE 2, 1903.

I. MALONE.
DENTAL SUCTION PLATE.
APPLICATION FILED MAR. 18, 1903.

NO MODEL.

Fig. 1.

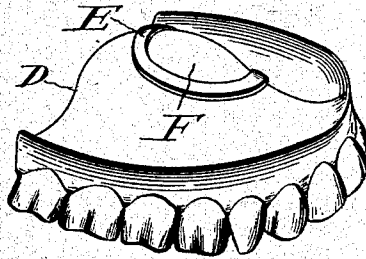


Fig. 2.

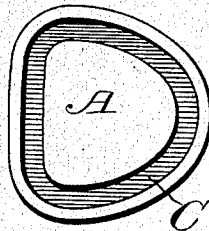


Fig. 3.



Fig. 4.

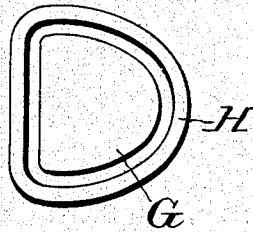
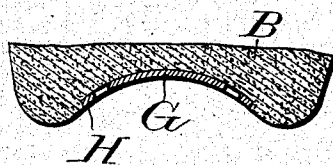


Fig. 5.



Inventor

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By

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Witnesses

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UNITED STATES PATENT OFFICE.

IRA MALONE, OF SAPULPA, INDIAN TERRITORY.

DENTAL SUCTION-PLATE.

SPECIFICATION forming part of Letters Patent No. 729,621, dated June 2, 1903.

Application filed March 18, 1903. Serial No. 148,347. (No model.)

To all whom it may concern:

Be it known that I, IRA MALONE, a citizen of the United States, residing at Sapulpa, Creek Nation, Indian Territory, have invented certain new and useful Improvements in Dental Suction-Plates, of which the following is a full, clear, and exact description.

My invention relates to an improved method of and means for making dental suction-plates.

The object of the invention resides in an improved method of and means for producing a dental suction-plate having a suction device centrally thereof formed by a projecting soft-rubber ring integral with the plate.

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

Figure 1 is a perspective view showing a plate constructed in accordance with my invention. Fig. 2 is a view of the form. Fig. 3 is a section showing the form attached to a plaster cast. Fig. 4 is a modified construction of the form. Fig. 5 is a section showing the modified construction of form attached to a plaster cast.

In constructing plates in accordance with my invention I employ a metallic form A, which is shaped similar to the general outline of the plastic model B of the mouth and is preferably made of soft pliable metal, so as to readily conform with slight pressure to the curvature of the plastic model. The form A is provided with a continuous groove C, running parallel to the outer edge of said form.

In practice the form is embedded in the plastic model so that the outer face of the form will be flush with the surface of the plastic model. The groove C is then filled with a suitable grade of rubber and the case packed in the usual manner and the plate D vulcanized. Upon completing the plate it will be

seen that in addition to the suction caused by the normal shape of the plate there will be formed a suction device comprising a continuous projecting rubber ring E and chamber F, which reinforces the normal suction of the plate, and hence increases its effectiveness.

It will be noted that while I have described the form A as being embedded in the plastic model, this portion of the operation could be dispensed with and the form simply secured to the surface of the model by other suitable means with the same effective result.

In Fig. 4 is illustrated a modified construction of the form shown in Fig. 2, in which is employed a solid plate G, adapted to be placed within a skeleton plate H, said plates being so correlated that a suitable space J will be left therebetween when same are secured to the plastic model in operative relation, the method of producing the plate D with the employment of the modified construction of the form being the same as that heretofore described.

I claim—

1. The herein-described method of producing dental suction-plates consisting of securing to the plastic model a metal form provided with a continuous groove, filling said groove with rubber and then vulcanizing the plate upon said model to secure said plate filling, substantially as described.

2. The form herein described consisting of a metallic plate of suitable shape and having a continuous groove therein, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in presence of two witnesses.

IRA MALONE.

In presence of—
SAMP JENNINGS,
A. J. LISH.