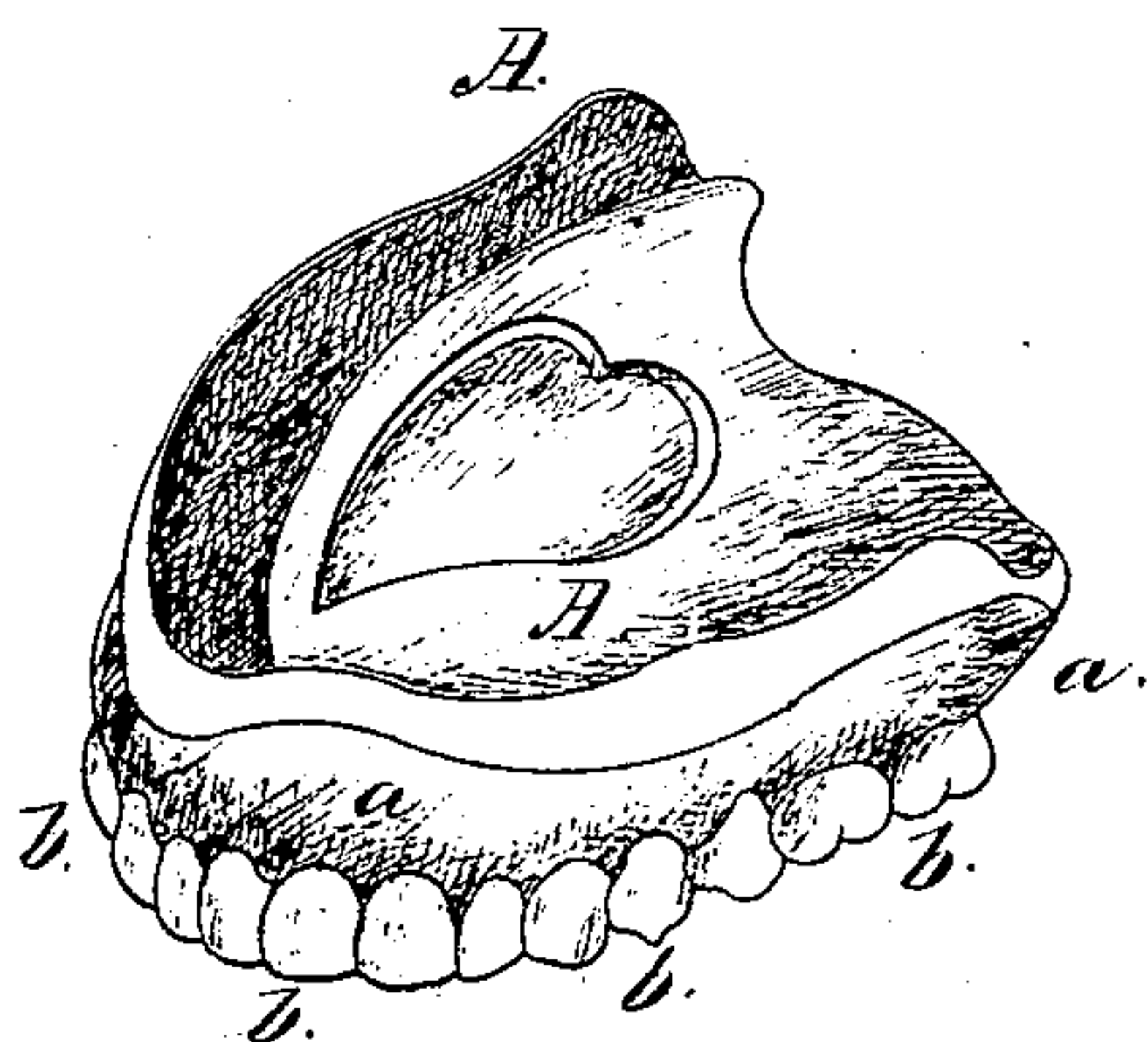


*J. C. Fuller,*  
*Artificial Teeth.*

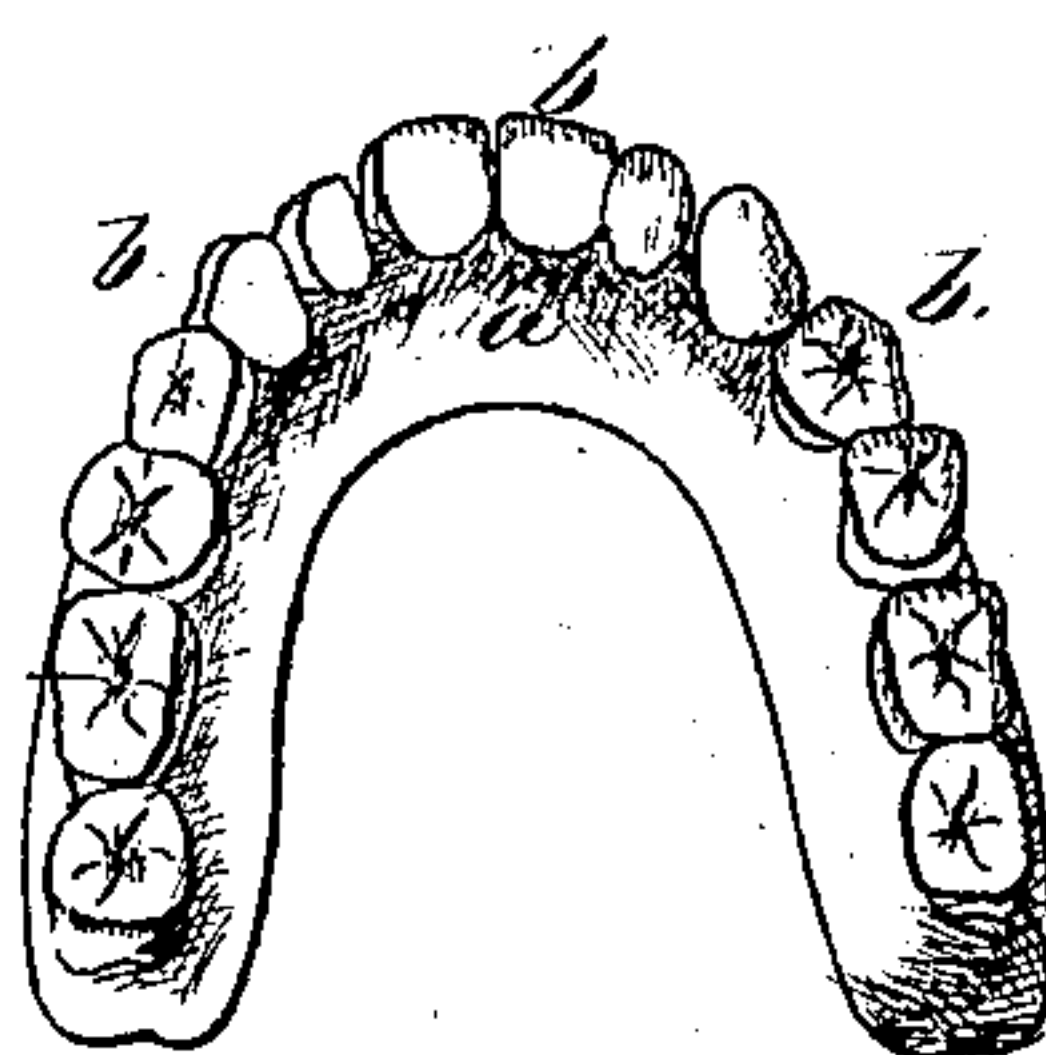
*N<sup>o</sup> 39,476.*

*Patented Aug. 11, 1863.*

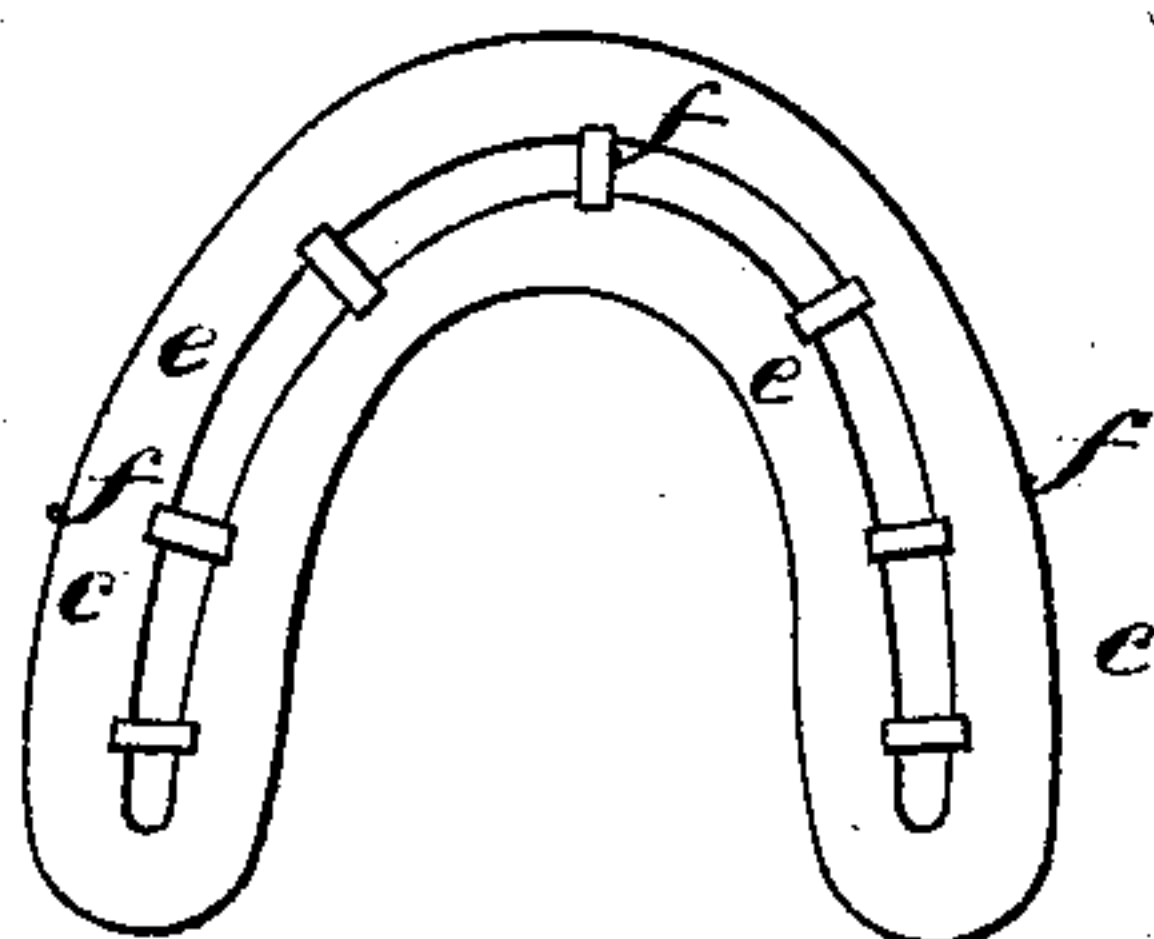
*Fig. 1*



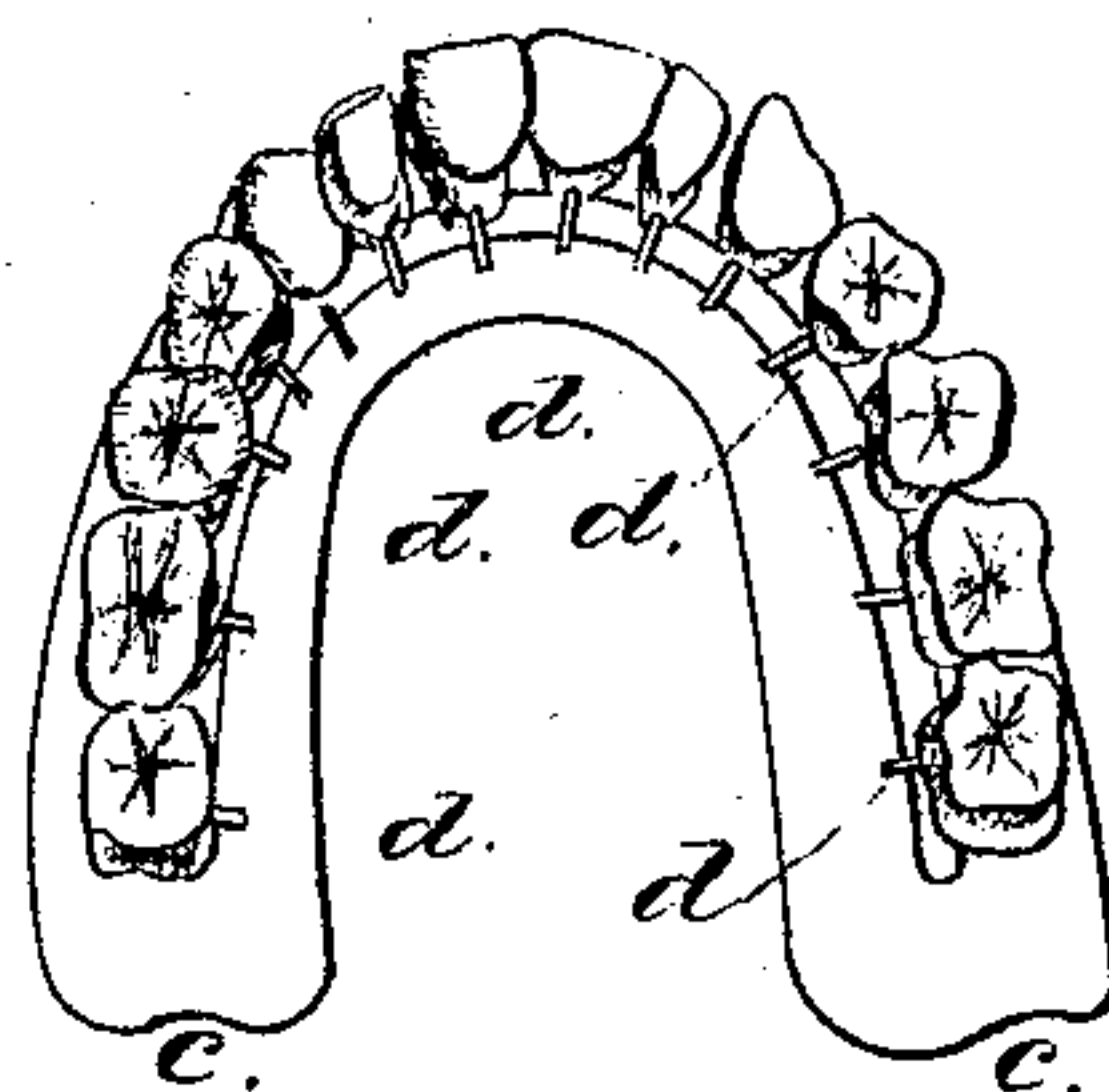
*Fig. 2.*



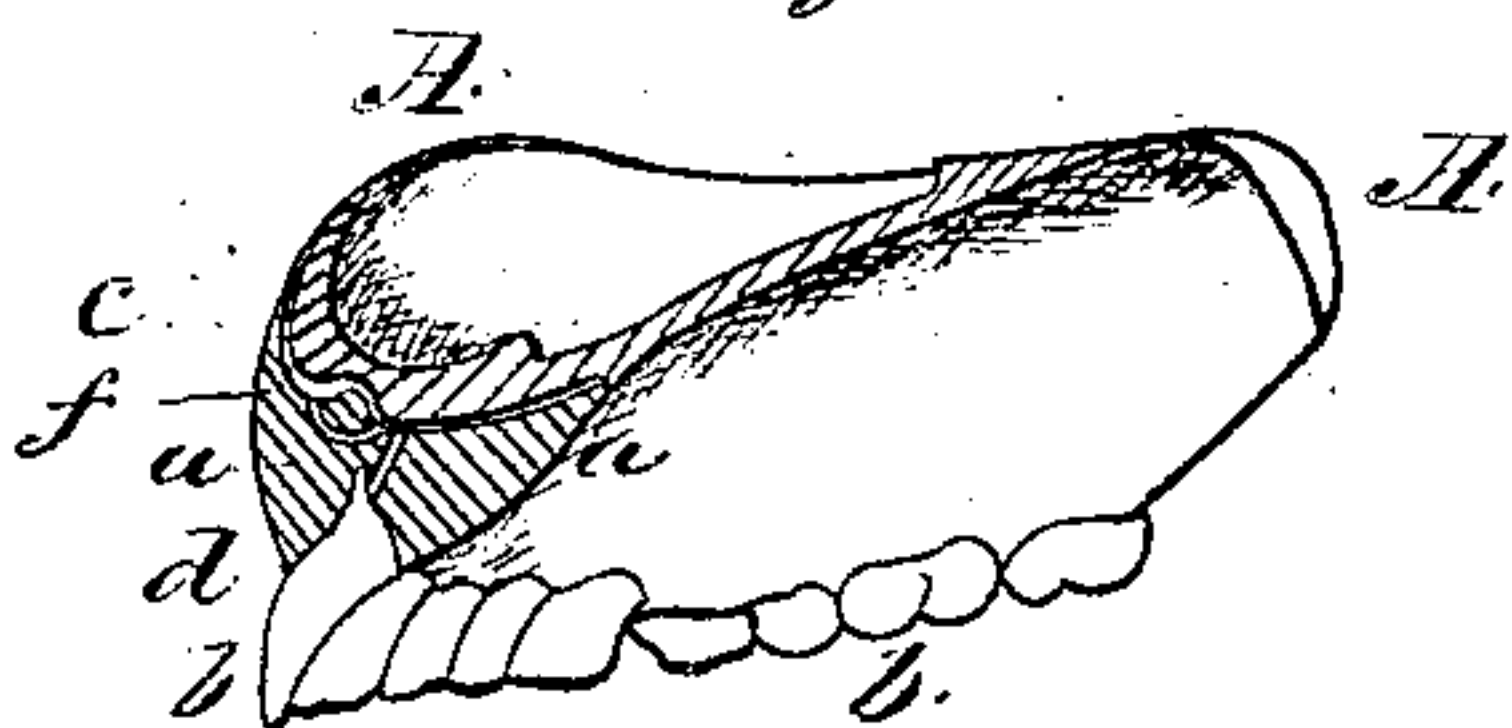
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



*Witnesses:*

*R. T. Campbell*

*Edw. F. Brown*

*Inventor:*

*Jno. C. Fuller*

*by his attys*

*Mass. Jewicks & Lawrence*

# UNITED STATES PATENT OFFICE.

JOHN C. FULLER, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN MOUNTING ARTIFICIAL TEETH.

Specification forming part of Letters Patent No. 39,476, dated August 11, 1863.

*To all whom it may concern:*

Be it known that I, JOHN C. FULLER, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Setting Artificial Teeth; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this description, in which—

Figure 1 is a perspective view of my invention applied to the teeth for the upper jaw. Fig. 2 shows a complete arch of teeth, without either the rubber, gold, or silver plates. Fig. 3 shows the inner surface of the platina base-plate. Fig. 4 shows the outer surface of the platina base-plate, with teeth attached. Fig. 5 is a section through the center of the complete set of teeth of Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

My invention relates to an improvement in the mode of forming a continuous border or gum of porcelain around the fangs of artificial teeth in the process of setting such teeth, whereby the well-known result of producing a homogeneous alveolar support or socket for all the teeth of either the upper or lower jaw, with the teeth properly adjusted therein, and suited to the requirements of the case, is greatly improved.

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

In Figs. 1 and 5 of the drawings I represent a perfect arch of teeth set in a porcelain base, *a*, or continuous alveolar process, and in this instance the fangs of the teeth are all attached to a trough-shaped plate, *c*, by means of pins *d*. This plate *c* has attached to it a vulcanized-rubber base, *A*, which is adapted to receive and to fit the gums of the upper jaw, and also the roof the mouth. The groove *e*, which is formed in the center of the trough of plate *c*, and the transverse bars *f*, which extend across this groove at certain intervals apart, serve as a means for attaching the rubber plate *A* to this plate *c*, and when the rubber hardens around and about the bars *f* a

firm connection takes place between the two substances. In this case it will be seen that I use a metallic plate, *e*, between the substance which fits the gums of the mouth and the continuous porcelain gum, which plate is completely enveloped by the gum *a* and the vulcanized rubber *A*, as shown in the colored drawings, Figs. 1 and 5.

This invention possesses the following advantages: The artistic beauty consists mainly in the continuity of artificial gum, it being entirely free from lines or sectional joints which would destroy its natural appearance by showing perpendicular lines where the sections would meet. Its desirable lightness, compared with other plans, and increased strength and durability, which is obtained by the method of uniting the parts together with a stiff metallic plate intervening, and its exact adaptability to the mouth.

Instead of using the transverse bars precisely as shown in the drawings, a hook, or any suitable projection or protuberance which will form an anchorage for the rubber mouth-piece, may be used. When it is necessary to repair the teeth, the case is invested in plaster and the whole heated to such a degree as only to soften the rubber attachment. The plate *A* can now be separated from the alveolar plate without any danger whatever to the same.

Having thus described my invention, what I claim as new is—

1. Constructing a platina or other metallic base-plate for the teeth and gums with grooves and hooks, or other suitable anchorages in the trough of this plate, substantially as described.

2. The combination of continuous porcelain gum *a*, having the teeth *b* affixed therein, substantially as described, with a vulcanized rubber base, substantially as and for the purposes herein described.

Witness my hand in the matter of my application for a patent for improved mode of setting artificial teeth.

JNO. C. FULLER.

Witnesses:

P. A. HOYNE,  
WM. L. HARRIS.