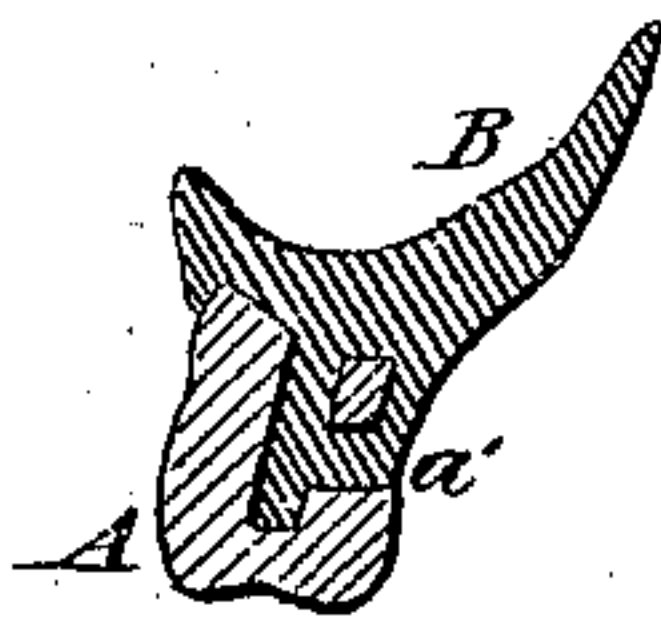


**W. C. TRACY.**  
**Artificial Teeth.**

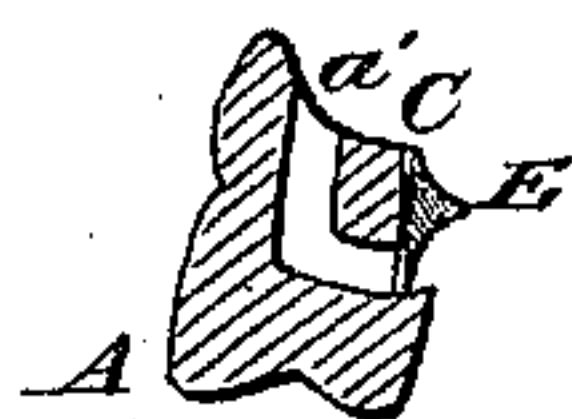
No. 143,476.

Patented Oct. 7, 1873.

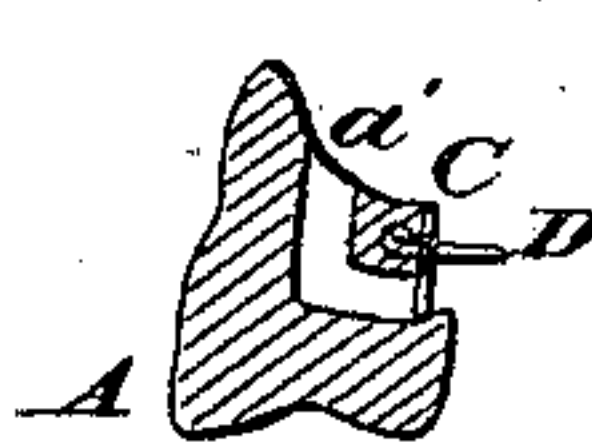
*fig. 1.*



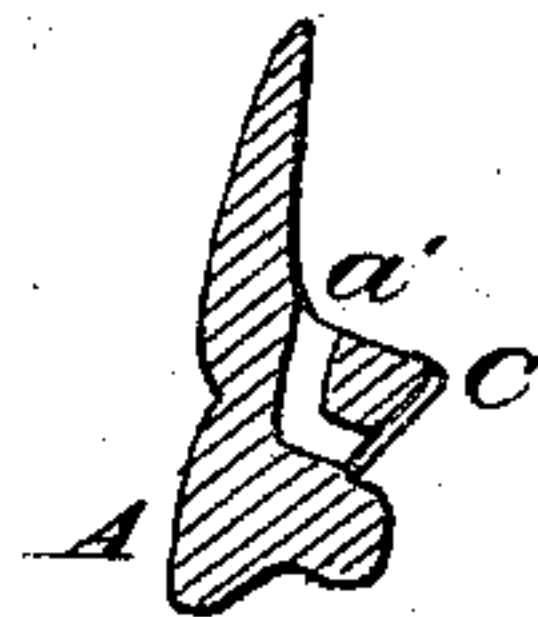
*fig. 3.*



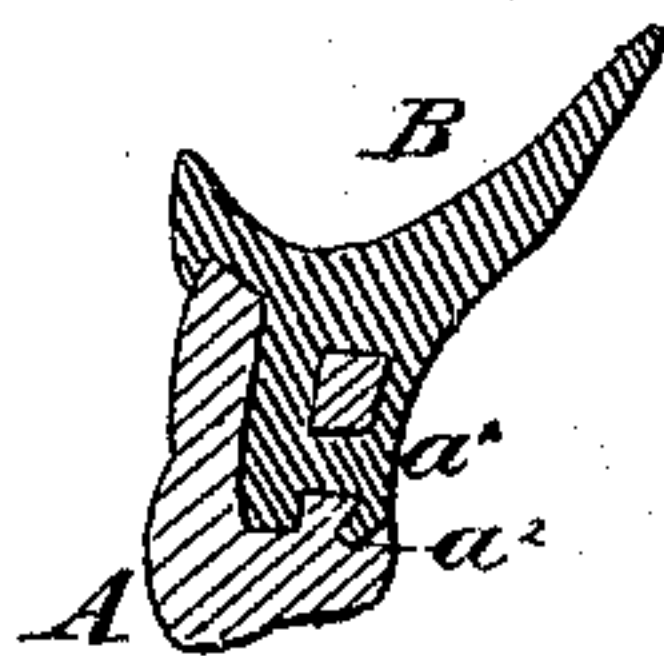
*fig. 5.*



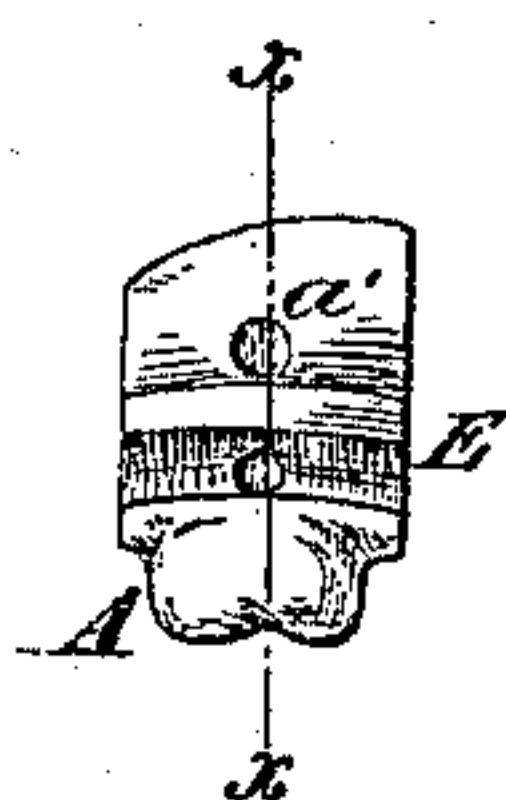
*fig. 7.*



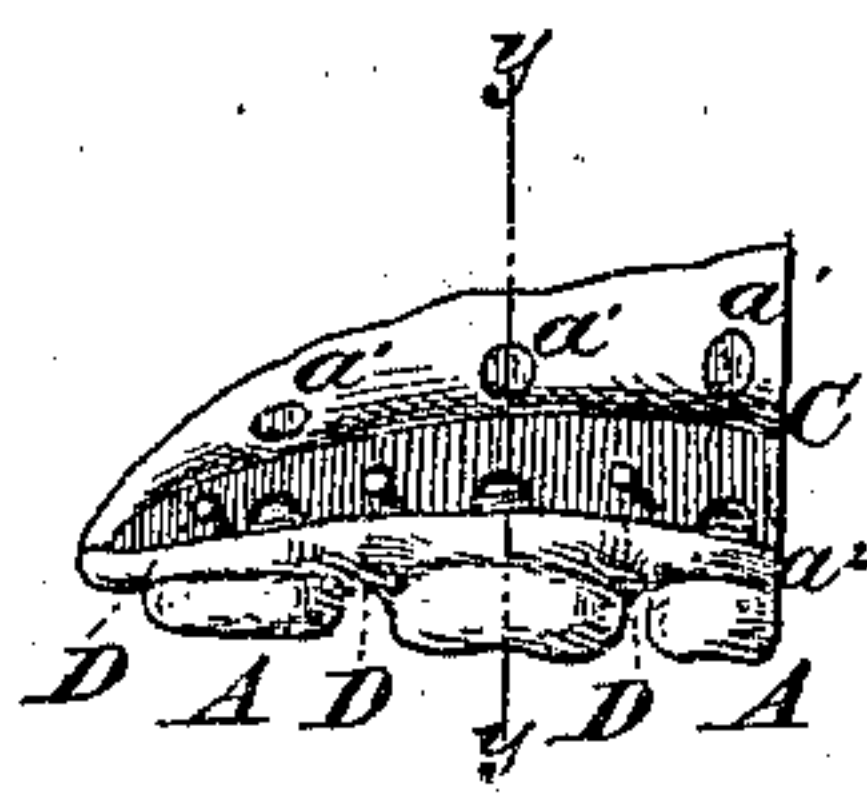
*fig. 2.*



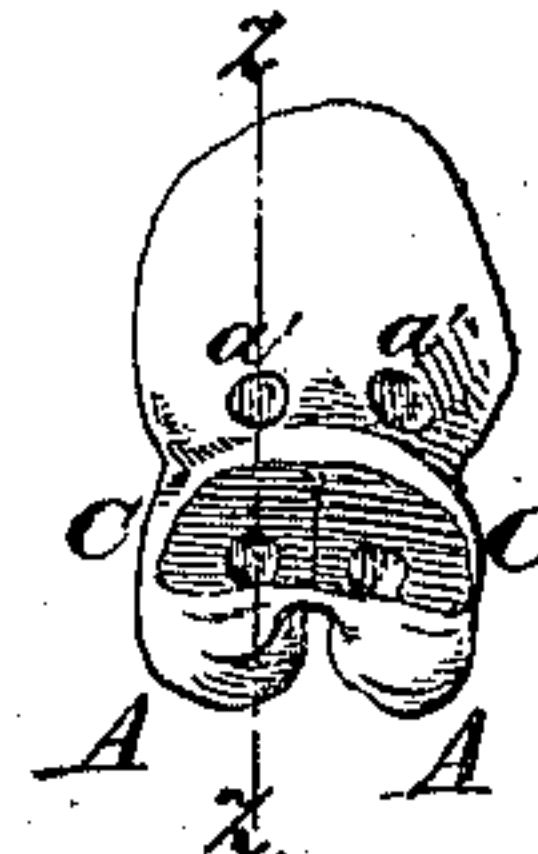
*fig. 4.*



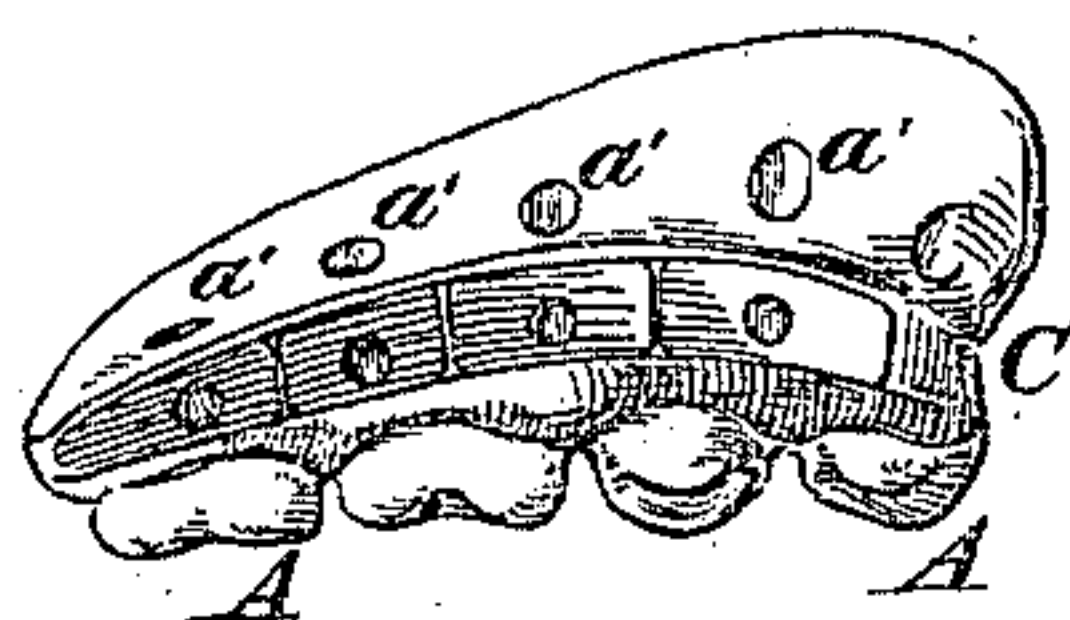
*fig. 6.*



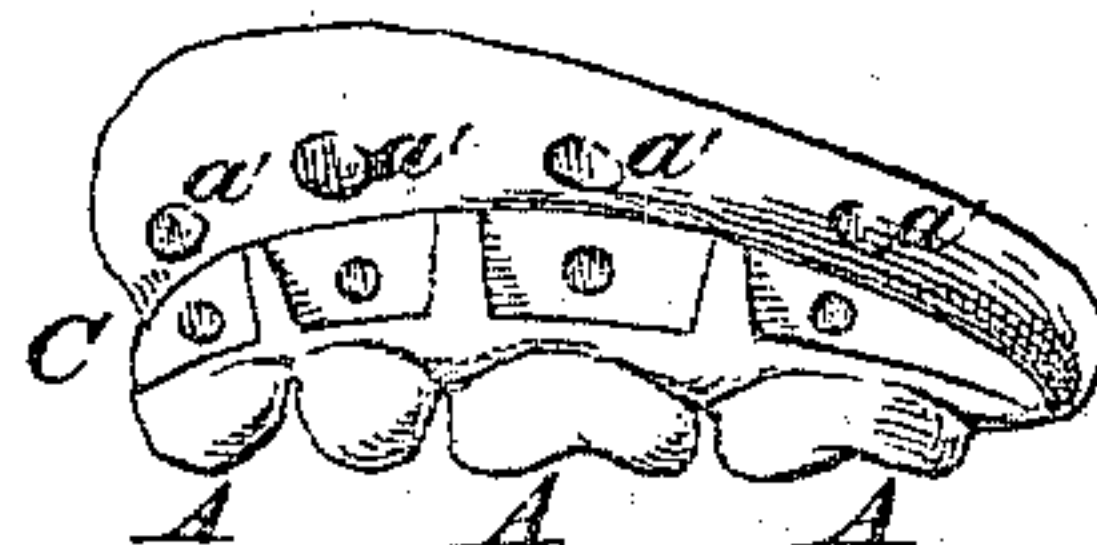
*fig. 8.*



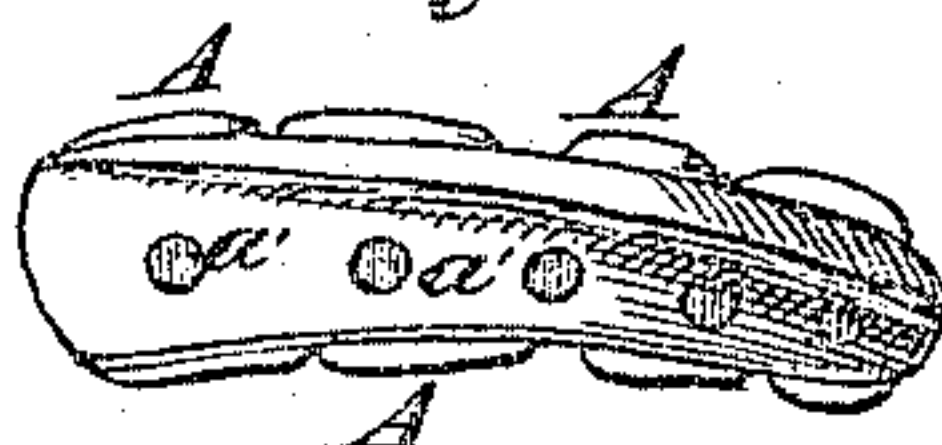
*fig. 9.*



*fig. 10.*



*fig. 11.*



**Witnesses:**

*Gustave Dietrich*  
*C. H. Guerin*

**Inventor:**

*W. C. Tracy*  
**Per** *M. M. M.*  
**Attorneys.**

# UNITED STATES PATENT OFFICE.

WILLIAM C. TRACY, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN ARTIFICIAL TEETH.

Specification forming part of Letters Patent No. **143,476**, dated October 7, 1873; application filed August 30, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM C. TRACY, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Artificial Teeth, of which the following is a specification:

Figure 1 is a detail section of an artificial tooth, showing the manner of securing it to the rubber base. Fig. 2 is the same view as Fig. 1, but showing a dovetail groove for additional security. Fig. 3 is a section taken through the line *xx*, Fig. 4, showing a gold plate secured to a tooth. Fig. 4 is a detail view of the same. Figs. 5 and 6 are sectional and detail views of a block of teeth provided with a platinum plate and pins. Figs. 7 and 8 are sectional and detail views of a two-tooth block provided with a platinum plate. Fig. 9 is a detail view of a block of teeth, showing the platinum plate made in sections. Fig. 10 is a detail view of a block of teeth, showing the platinum plate made in sections, separated by flanges of the block. Fig. 11 is a detail view of a block of teeth, showing its curvature.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish artificial teeth, single and in blocks, so that they may be more conveniently and firmly secured to the various plates or bases upon which they are set or mounted. The invention consists in a platinum lining upon the back of the teeth, with or without pins, as hereinafter described and claimed.

A are porcelain teeth. In the back of each tooth, whether single or in blocks or sets, or partial sets, are formed an upright and a transverse hole, meeting each other at an angle, and forming an elbow or an angular passage, *a*<sup>1</sup>, as shown in Figs. 3, 5, and 7. If desired, the upright hole may extend a little above the transverse hole, as shown in Figs. 1 and 2. The passage *a*<sup>1</sup> is designed for the rubber or vulcanite to flow through, and thus securely fasten said tooth or teeth to the base or plate B, as shown in Figs. 1 and 2.

The teeth may also have a groove, *a*<sup>2</sup>, straight or arched, formed in the upper part of their

backs, for the rubber or vulcanite to flow into, as shown in Fig. 2, to more firmly secure the teeth to the base or plate B.

C is a platinum lining or plate, placed upon the backs of the teeth and baked in.

The lining C may be attached to single teeth, as shown in Figs. 3 and 4; to double or two-tooth blocks, as shown in Figs. 7 and 8; or to blocks of more teeth, as shown in Figs. 5, 6, 9, and 10.

When attached to blocks the platinum lining or plate C made be made long, as shown in Fig. 6; or in sections, as shown in Figs. 9 and 10. In the latter case the sections may be separated by flanges of the porcelain, as shown in Fig. 10.

D are platinum pins, inserted in the blocks of the teeth, and baked in with the platinum lining or plate C.

The pins D should be made with rings or heads upon their inner ends, to prevent them from drawing out.

By this construction, when the teeth are to be applied singly or in blocks to a rubber or vulcanite base or plate, B, the platinum lining C will be covered up and concealed by said plate. When the teeth, singly or in blocks, are to be attached to a gold, silver, platinum, or other metallic base or plate, E, the said base or plate E is soldered directly to the platinum lining or plate C, so that the teeth may be attached with facility to either a vulcanite or metallic base or plate, as may be desired. The blocks of teeth are molded upon an anatomical curve to adapt them to the shape of the maxillary bones, to avoid the trouble and loss of time in carving and fitting them accurately to the jaws.

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

The platinum lining C, baked upon the back of the teeth, and either with or without the pins D, substantially as herein shown and described.

WILLIAM C. TRACY.

Witnesses:

JAMES T. GRAHAM,  
T. B. MOSHER.