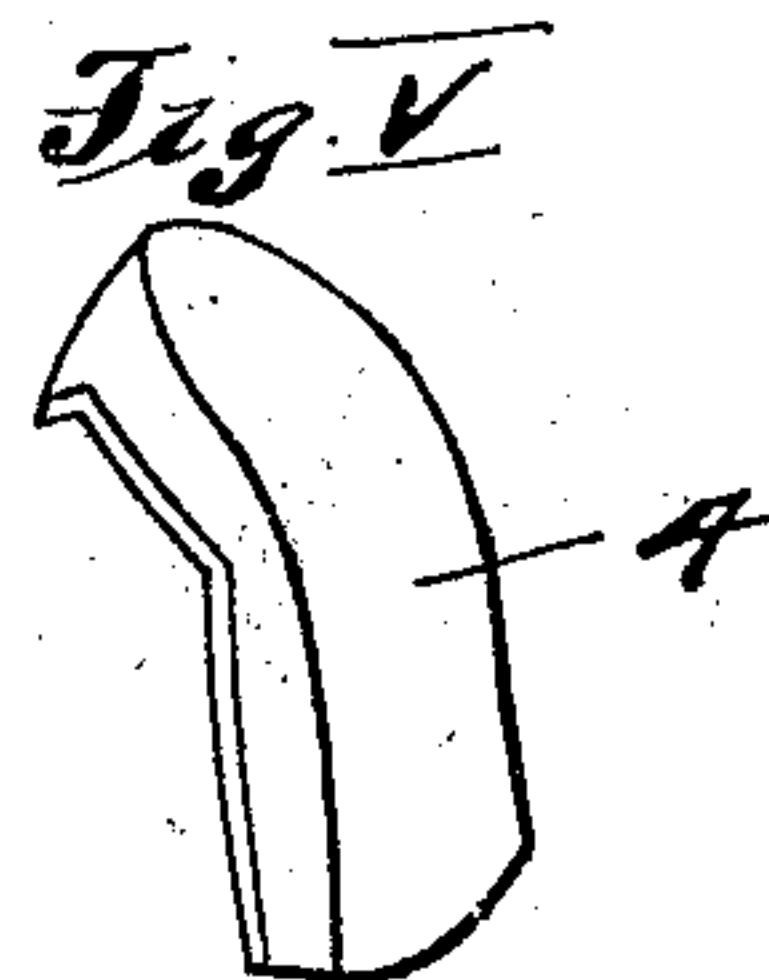
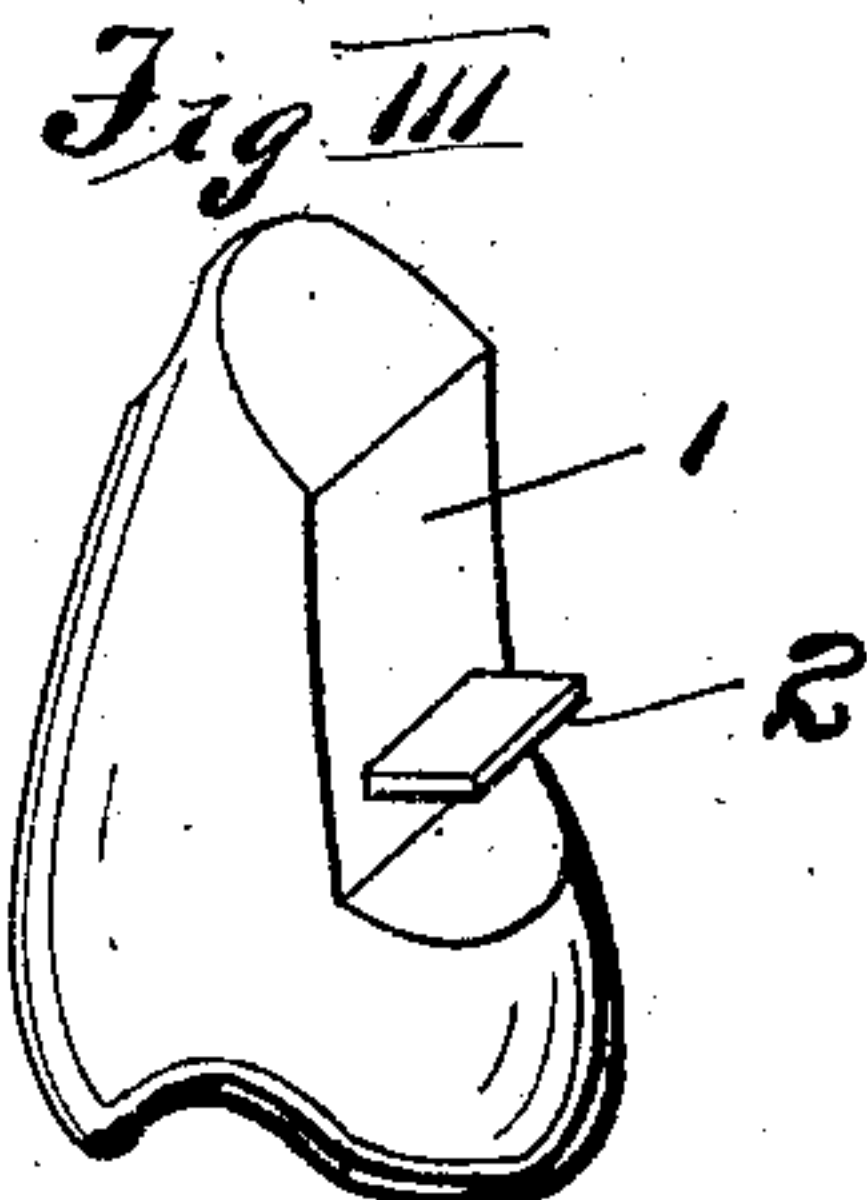
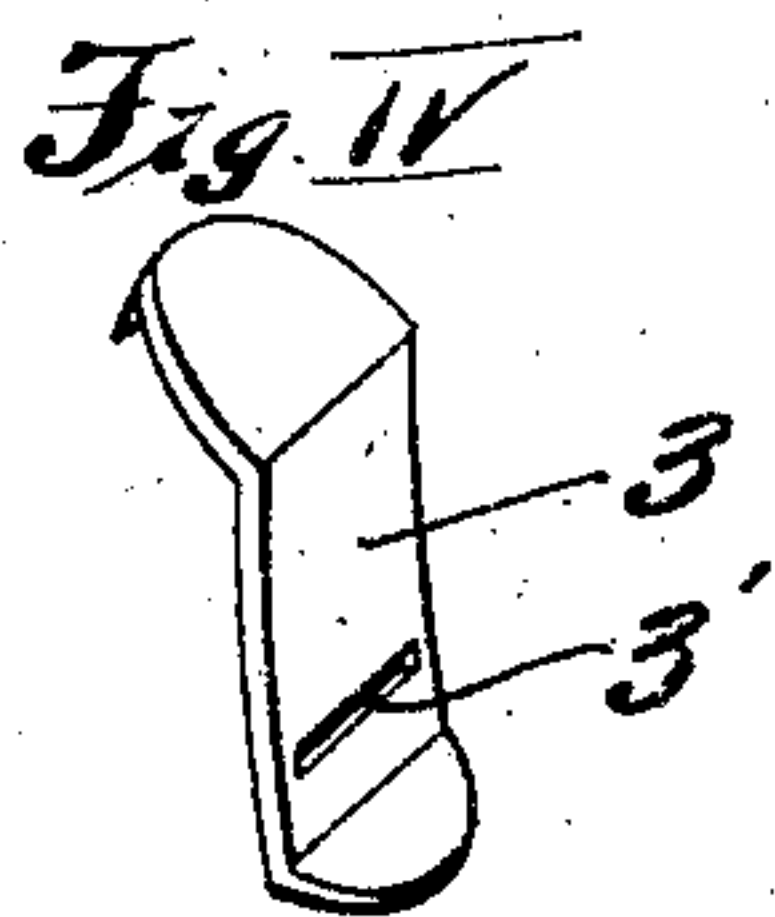
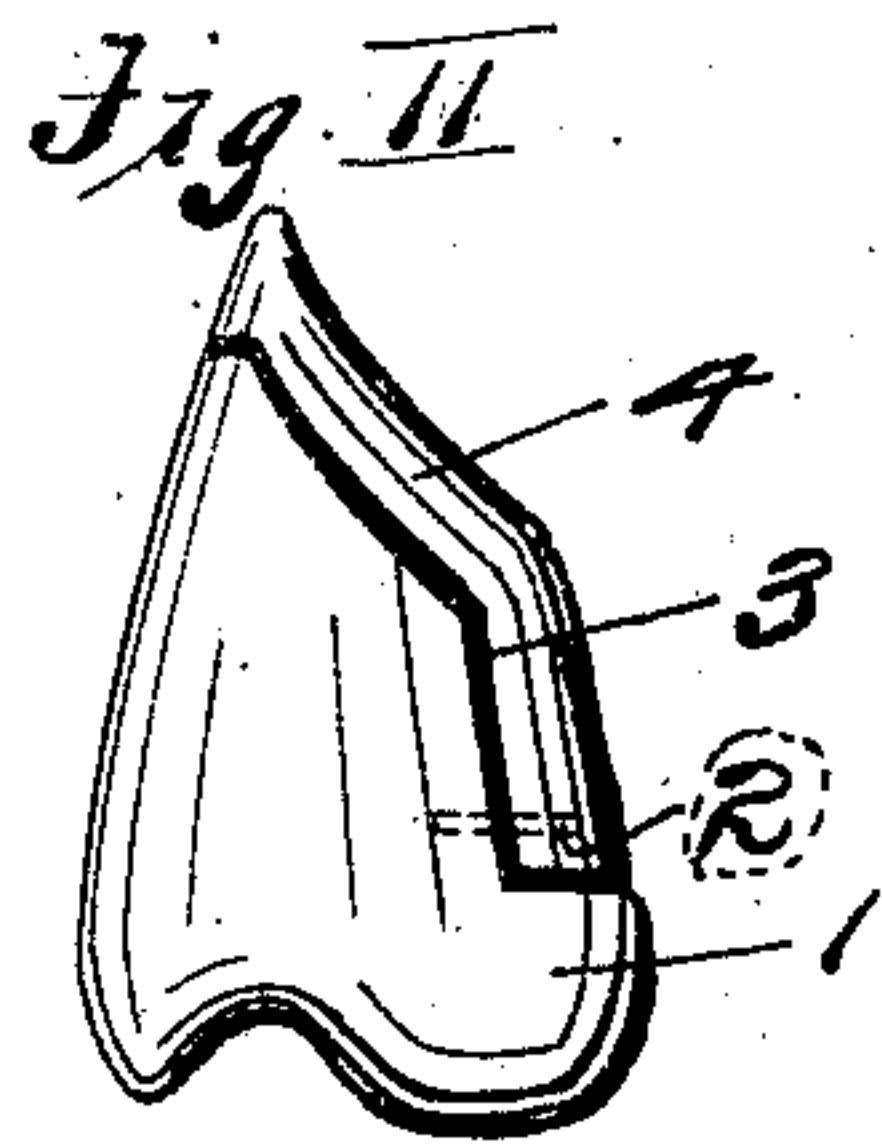
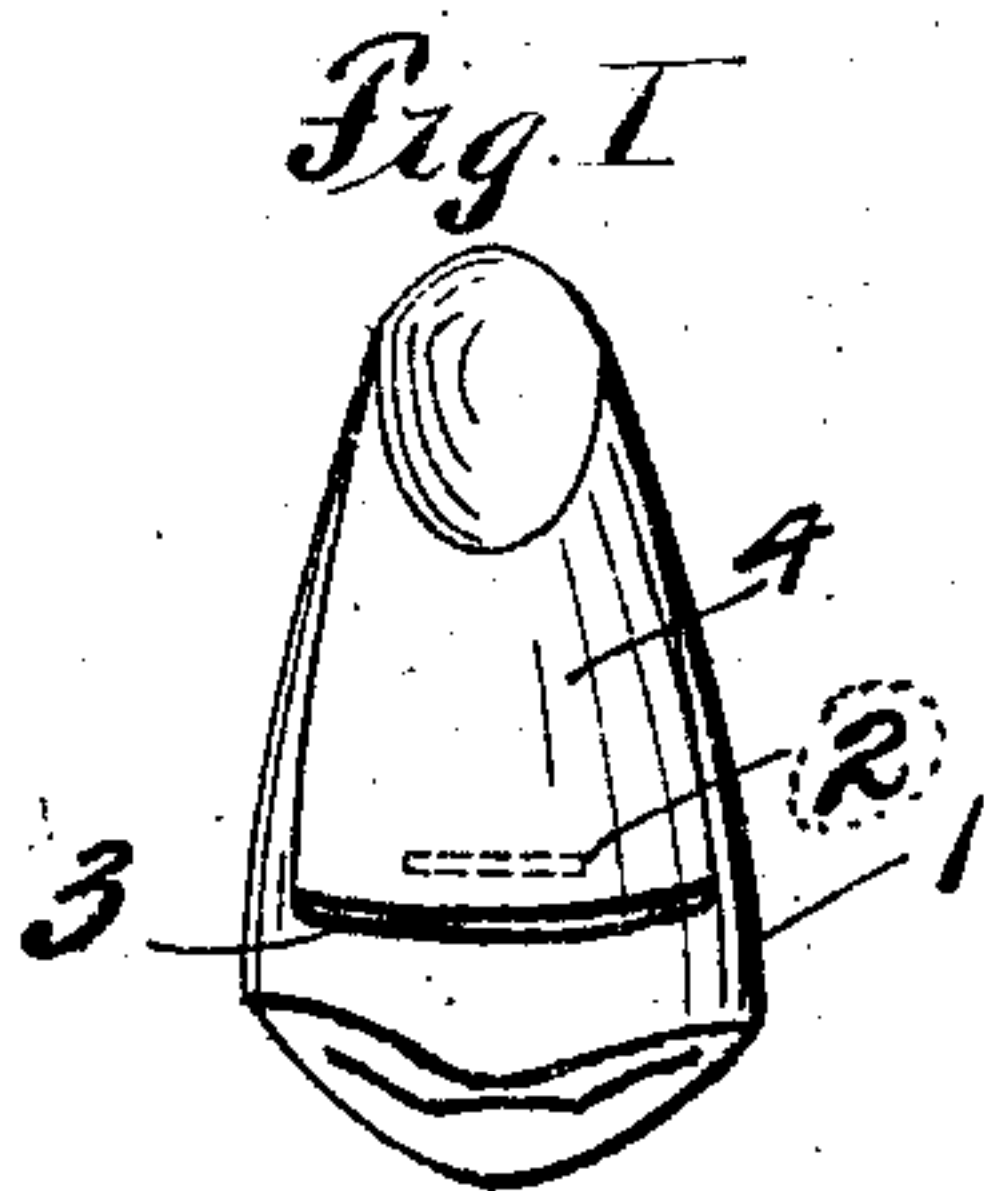


F. D. CASE.  
ARTIFICIAL TOOTH.  
APPLICATION FILED APR. 13, 1908.

904,601.

Patented Nov. 24, 1908.



WITNESSES:  
*Harold E. Richards.*  
*Geo. Horne*

INVENTOR.  
*F. D. Case,*  
BY *Arthur C. Brown*  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

FRANK D. CASE, OF KANSAS CITY, MISSOURI.

## ARTIFICIAL TOOTH.

No. 904,601.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed April 13, 1908. Serial No. 426,722.

*To all whom it may concern:*

Be it known that I, FRANK D. CASE, citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Artificial Teeth; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to an artificial tooth, and has for its object to provide a device of that class which is simple and economical in both construction and use, and which may be firmly and permanently attached to a plate, bridge or like body. In accomplishing this object I have provided the improved details of structure which will presently be fully described and pointed out in the claims, reference being had to the accompanying drawings forming part of this specification in which:—

Figure I is a rear view of a tooth constructed according to my invention. Fig. II is a side view of same. Fig. III is a side perspective view of the porcelain or like body from which the attaching backing has been removed. Fig. IV is a similar view of the backing plate. Fig. V is a similar view of the backing with solder added.

Referring more in detail to the parts:— 1 designates a tooth body which is composed of porcelain or like material and the back of which is shaped in such manner, preferably in the line shown in drawings, to provide for the application of a metal backing member that is better adapted for attachment to a plate or like body than is the porcelain portion of the tooth. Anchored or baked in and projecting from the face of the cut away portion of said porcelain body is a bar 2, the use of which will presently be described.

Fitting against the cut away face of body 1 is a thin plate or backing 3 of metal which can be readily swaged to the tooth body, and allow penetration of bar 2, the inner surface of which follows the contour of

the cut away face of the porcelain body member, while its outer face is rounded to the curve of a natural tooth by applying metal preferably composed of solder in order that it may be made to unite an ordinary tooth-plate, bridge, etc., and to the metal plate 3 that is attached to the described tooth body.

While I have described the plate 3 as composed of a suitable metal, I preferably form both said plate and the permanent bar 2 of platinum, as such material has been found to be best adapted for the uses noted; the added metal being preferably composed of solder for the reason that such material may be readily shaped to a desired form, and may be quickly, easily and permanently attached to the plate 3, bar 2, and to a tooth plate, bridge, etc. in a manner readily apparent to those familiar with this class of work. In forming the tooth, the bar 2 may be baked with the porcelain or like body member, or a socket may be formed in the tooth body and the bar anchored therein after the body has been baked.

After the bar 2 has been applied to the body 1, the platinum or like plate 3 is placed over the bar and swaged or otherwise permanently secured to body 1, a slot 3' being cut in such plate to furnish the passage of the bar therethrough, or the plate being forced there against until pierced by the bar to gain the seat described. When both the bar and plate have been adjusted on the tooth body, the solder is placed thereover, preferably by applying same thereto while in a heated condition so that the bar 2 may penetrate the metal and both the bar and plate adhere thereto as the metal cools, and if necessary, the solder be shaped after such cooling process to form the rear body 4.

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

1. An artificial tooth comprising a porcelain body member having an inset shoulder at the rear and above its free end, a back plate having a lip adapted to seat on said shoulder and provided with a flange adapted to hook over the root end of said body, a backing carried by said plate, and a bar



anchored in both the body and backing and projected through said plate, substantially as and for the purpose set forth.

- 5 2. An artificial tooth comprising a porcelain body, having a portion of its rear face cut away, an attaching plate carried by the cut away rear face of said body, an attaching portion of solder attached to said plate and a bar anchored in said body portion and pro-

jecting through said attaching plate into said portion of solder, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK D. CASE.

Witnesses:

GRACE TAYLOR,  
HAROLD E. RICHARDS.