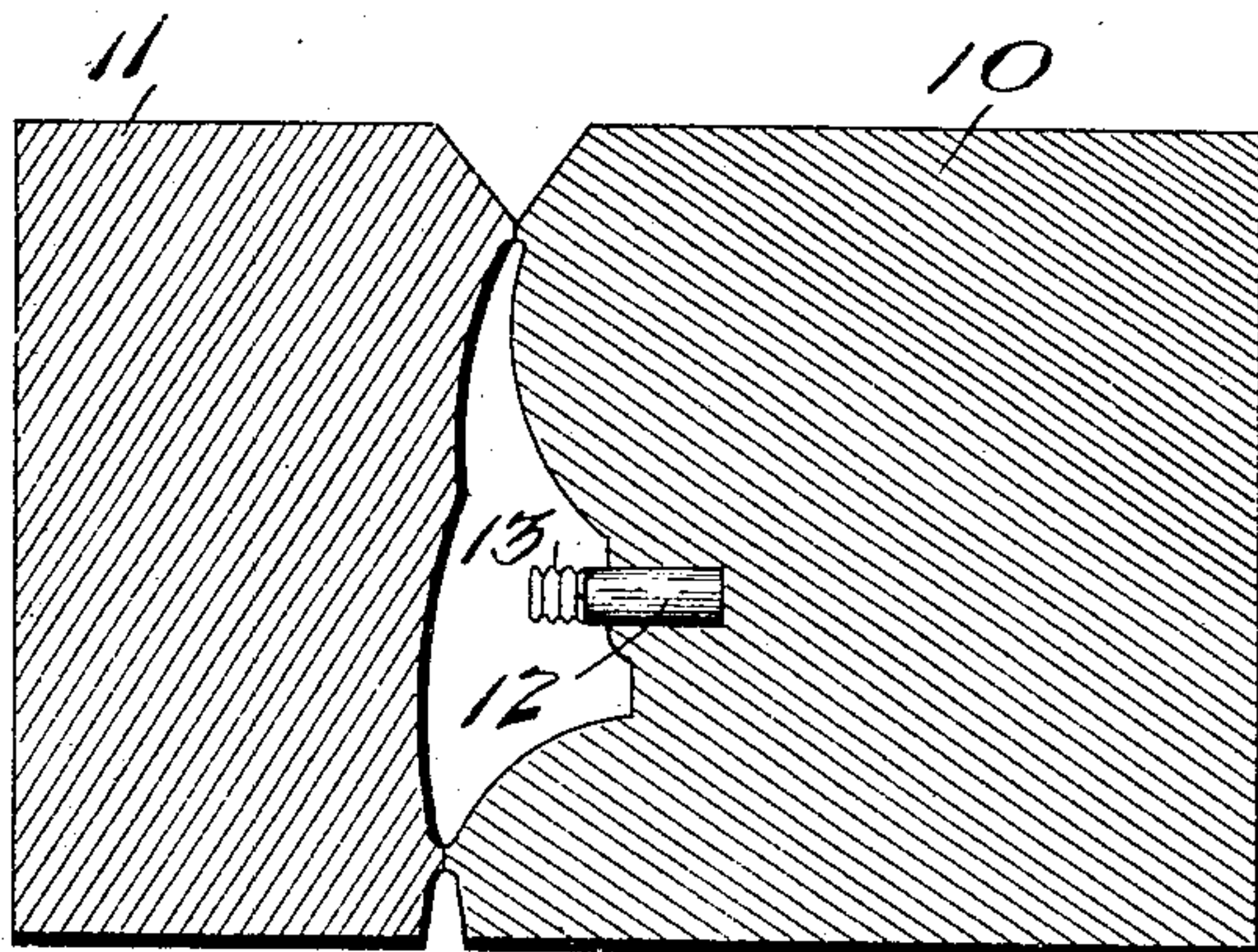


No. 785,993.

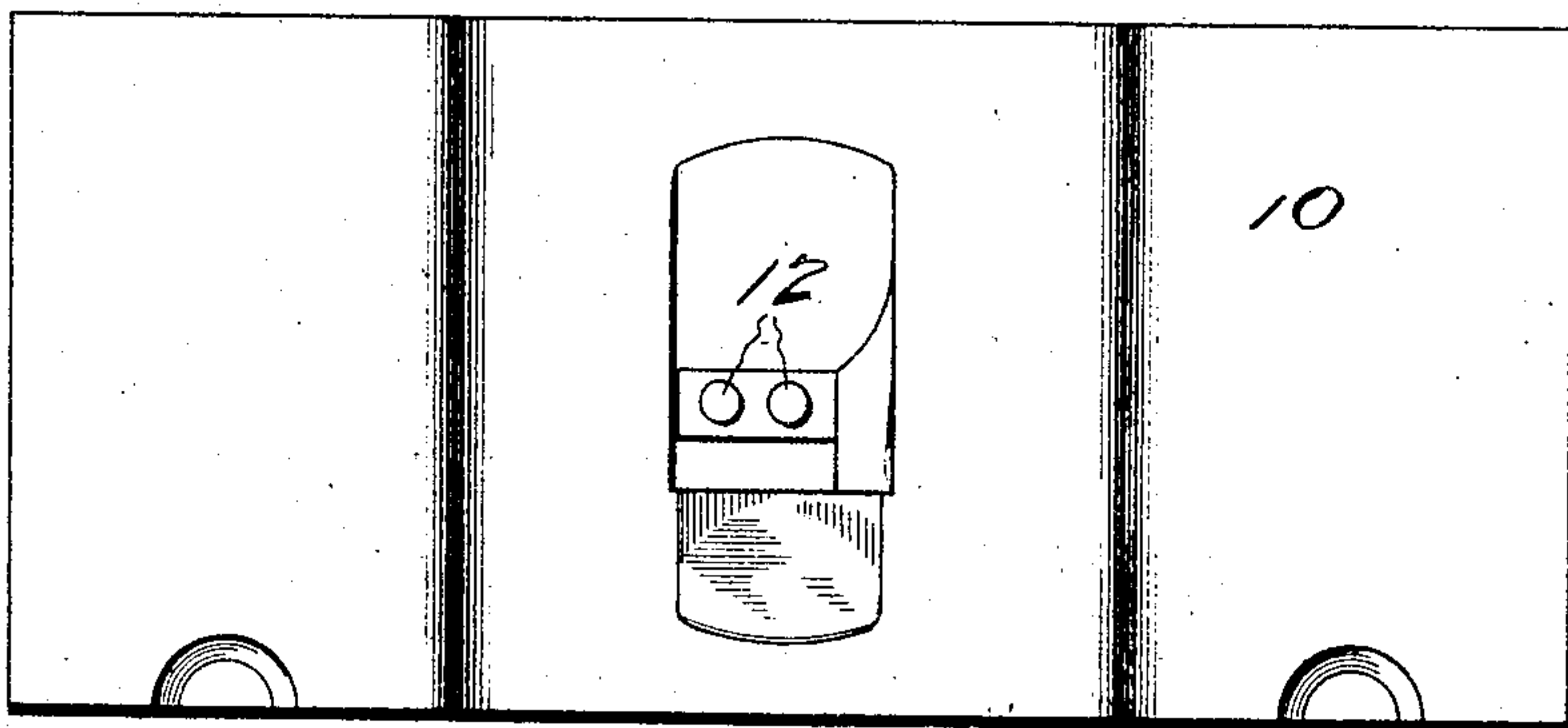
PATENTED MAR. 28, 1905.

G. H. WHITELEY.  
MOLD FOR ARTIFICIAL TEETH.  
APPLICATION FILED OCT. 26, 1904.

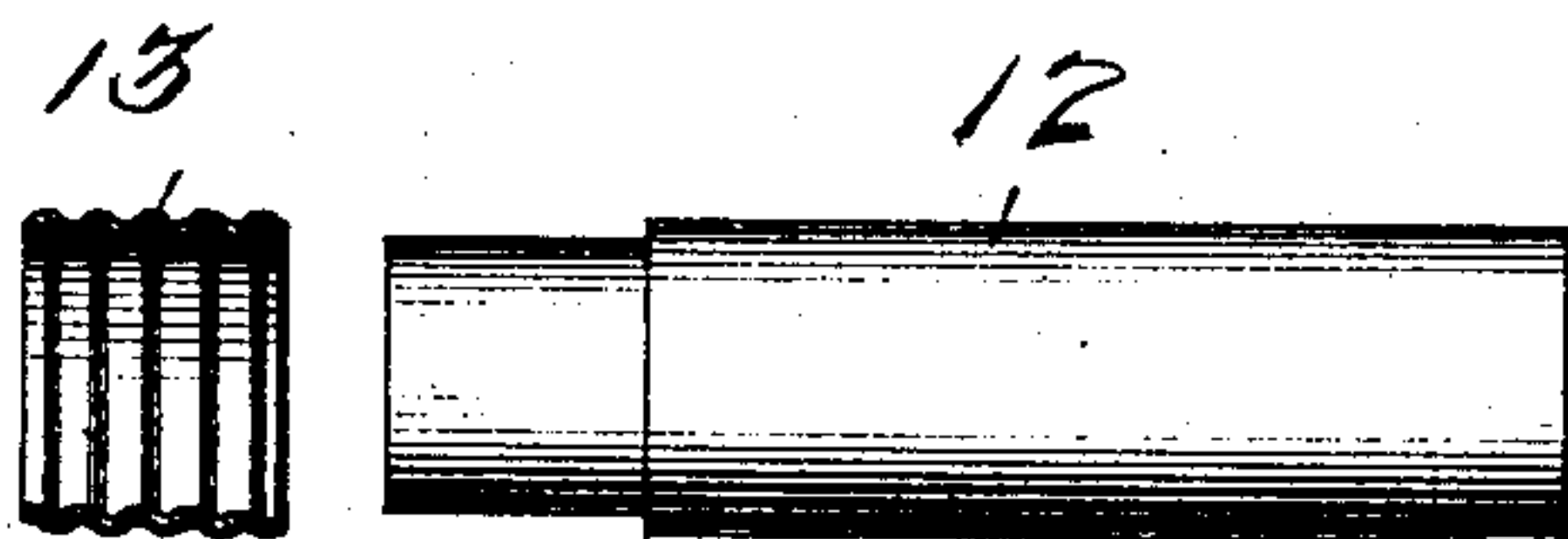
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Inventor

*George H. Whiteley*

By

*Arthur W. Harrison*

Attorney

Witnesses

*J. L. Mochane*  
*H. Joseph Dayle*



# UNITED STATES PATENT OFFICE.

GEORGE H. WHITELEY, OF YORK, PENNSYLVANIA, ASSIGNOR TO DENTISTS' SUPPLY COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

## MOLD FOR ARTIFICIAL TEETH.

**SPECIFICATION** forming part of Letters Patent No. 785,993, dated March 28, 1905.

Application filed October 26, 1904. Serial No. 230,107.

*To all whom it may concern:*

Be it known that I, GEORGE H. WHITELEY, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented new and useful Improvements in Molds for Artificial Teeth, of which the following is a specification.

This invention relates to the manufacture of artificial teeth, and particularly to the devices employed for molding the teeth.

The present invention is designed particularly as an improvement upon the type of mold described and claimed in Patent No. 613,711, granted November 8, 1898, to Page and Bloom. In said patent one of the members of the mold is fitted with one or more projecting posts employed to temporarily support a detachable piece of metal, such as platinum, which piece of metal is to form the anchor for the pin of German silver or other relatively inexpensive metal which will be soldered thereto. In said patent the post is of metal and is permanently supported in one of the members of the mold, so that when the tooth has been molded and the members of the mold separated and the molded tooth removed from the projecting post or posts a recess or cavity is left in the material of the tooth, the anchor being at the bottom of said recess or cavity.

The object of this invention is to dispense with the metallic post or posts carried by one of the members or sections of the mold and to substitute therefor an inexpensive temporary support for the anchoring-piece of metal, which temporary support or supports will stay with the tooth when it is removed from the mold, but will be destroyed by the heat employed for baking or burning the tooth.

To these ends the invention consists in the construction substantially as hereinafter described and claimed.

Of the accompanying drawings, Figure 1 represents a sectional view through a mold adapted to be employed in carrying out my invention. Fig. 2 represents a face view of one of the sections or members of the mold and will be referred to as the bottom part of the mold. Fig. 3 is an enlarged representation

of a wooden pin or post and a platinum anchor which may be employed.

Similar reference characters indicate similar parts in each of the figures.

The bottom and top portions of the mold are represented, respectively, at 10 and 11, said two portions or members having their coacting faces formed to mold the material of the tooth in the desired form. I have simply selected one form of tooth-forming cavity to illustrate my invention. Of course the mold-sections may be formed to simultaneously mold a number of teeth instead of one, as represented in Fig. 2. The number of teeth that may be molded at one time has nothing to do with my invention.

The bottom section of the mold is formed with one or more recesses to loosely receive the post or posts 12, which is shown in Fig. 1 as temporarily supporting an anchor 15. For convenience I will refer to but one post. Said post is formed of a material which will be destroyed by the temperature of the oven in which the molded tooth is baked. For this purpose I prefer wood, although other destructible material might be employed, such as wax or a paper-roll. If the roll were employed, its outer or projecting end would preferably be closed, so as to prevent the entrance of tooth material into said roll. Preferably the post 12 will be formed with a slight shoulder, as indicated in Fig. 3, to locate the position of the anchor 13. In Fig. 3 I have represented the anchor as of a tubular corrugated type shown and claimed in the application of S. S. Bloom, Serial No. 185,547; but it is to be understood that my invention is applicable for supporting any kind of detachable piece of metal that is to be employed in the tooth and is to form the head to which the inner end of the pin that connects the tooth to the vulcanite plate may be soldered.

Owing to the fact that the post is of a non-metallic material, such as described, there is some elasticity which will reduce the liability of difficulty in separating the molded teeth from the mold. When rigid metallic posts are employed, the act of separating the molded but unbaked tooth from the mold is liable to

crack the unbaked tooth. Moreover, the adhesion of the unbaked but molded tooth to the post enables said tooth to be handled or manipulated by means of said post. At the  
5 same time the cost of posts made of such material as described is so slight that the fact that it is destroyed in the baking operation does not have to be considered in connection with the detail expense of manufacture.

10 Having now described my invention, what I claim is—

A dental mold having an anchor-supporting

post adapted to be destroyed by high temperature, said post being removably connected with the mold whereby it will be carried by 15 the tooth when the latter is removed from the mold and then destroyed during the baking of the tooth.

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

GEORGE H. WHITELEY.

Witnesses:

JAS. H. SCHOLL,

N. R. CROSS.