No. 824,111. PATENTED JUNE 26, 1906.

H. A. GOLLOBIN.

PROCESS FOR MAKING TEETH.

APPLICATION FILED SEPT. 28, 1905.

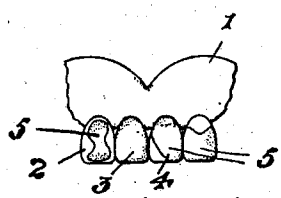


Fig. 1.

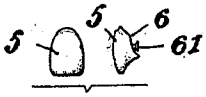


Fig. 2.

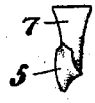


Fig. 3.

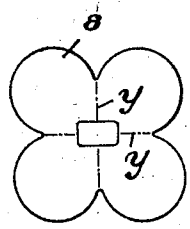


Fig. 4.

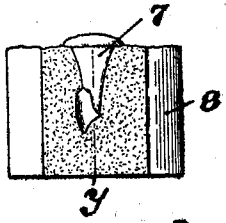


Fig. 5.



Fig. 6.



Fig. 7.

WITNESSES

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PROCESS FOR MAKING TEETH.

No. 824,111. Specification of Letters Patent. Patented June 26, 1906.

Application filed September 28, 1905. Serial No. 280,400.

To all whom it may concern:

Be it known that I, HARRY A. GOLLOBIN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Processes for Making Teeth; and I do hereby 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 numerals of reference marked thereon, which form a part of this specification.

The invention relates to a process for making gold or similar surfacing to a false tooth, and particularly to teeth attached to plates, and relates more particularly to making a duplicate of the tooth in soft metal, applying the gold as desired, and then melting the soft-metal duplicate to leave the gold sheet of the proper shape to fit the tooth.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a front view of a portion of a plate embodying my improvements. Fig. 2 shows in front and edge elevation the core or body portion of one of the false teeth. Fig. 3 is an edge view of the tooth mounted upon a wax or composition handle or stem. Fig. 4 is a plan of a plaster-of-paris mold used to obtain a casting of the tooth and its stem. Fig. 5 shows the mold broken with such a casting embedded therein, and Fig. 6 is a front view of the casting with its tooth portion covered with sheet-gold. Fig. 7 shows in front, side, and rear elevation a finished tooth, ready to be mounted in the plate.

In said drawings, 1 indicates an ordinary plate as used in dentistry, having set therein false teeth 2 3 4, &c. Each of said teeth comprises a porcelain body portion 5, which is shaped at its upper inner surface 6 to be mounted in the plate 1, as is provided with the usual pins 61, as is common in dentistry. In carrying out my invention the said body portion 5 of the tooth is first mounted by its attaching-surface 6 upon a stem or handle 7 of wax or other suitable composition. The tooth thus mounted is then embedded in plaster-of-paris 8, which when broken, as indicated by lines *y y* in Fig. 4, forms a mold in which a counterpart of the tooth and its stem or handle can be cast in metal, as shown in Fig. 5. This metal casting thus provides in shape an exact duplicate of the tooth provided with a handle or stem, over which the gold crown can be worked or shaped. The workman taking this casting 9 covers the same with sheet-gold, the metallic character of the casting enabling the gold to be hammered, and the entire tooth is thus covered with gold by a process which it would be impossible to employ with a bare porcelain body portion 5. This covering 10 of the tooth, which is shown as just applied in Fig. 6, is then cut away at any desired portion of the front of the tooth to expose the porcelain body portion 5, it being understood that the part not cut away resembles or has exactly the appearance of a filling or open-faced crown on a natural tooth in the mouth. Obviously fillings of different shapes and sizes and located at any portion of the tooth may thus be secured as desired by the dentist, or the entire tooth may be left covered with gold, as shown at 3 in Fig. 1.

The metal employed as a form for the gold is more fusible than the gold, and after the gold is brought to a proper shape the more fusible metal is melted out, the shaped gold is cleaned of alloy or other adhering matter, and then the porcelain tooth is forced into said crown or gold covering or imitation filling by any suitable means, the edges of said crown, covering, or filling or open-faced crown being burnished to make a close joint with the porcelain and prevent the applied gold from coming off.

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

1. The herein-described process of making false teeth, which consists in making a body portion, casting a duplicate of the same in metal, covering said metal duplicate with sheet-gold, melting out the casting and applying the sheet-metal covering to the tooth.

2. The herein-described process of den-

tistry platework, which consists in applying to the body portion of a false tooth a suitable handle, obtaining a metal casting of said tooth and handle, applying to the said casting of the tooth a gold covering, melting out the casting and applying the covering to the body portion of the tooth.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of September, 1905.

HARRY A. GOLLOBIN.

Witnesses:
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