

(No Model.)

D. B. McHENRY.
ARTIFICIAL TOOTH.

No. 475,141.

Patented May 17, 1892.

Fig. 1.

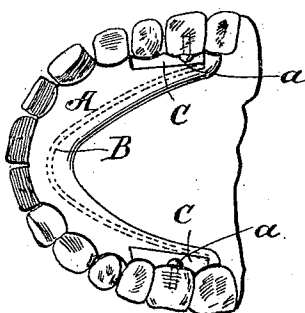


Fig. 2.

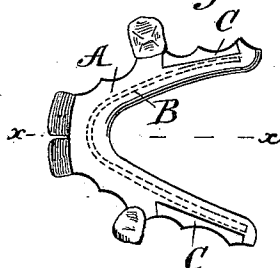


Fig. 3.

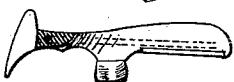


Fig. 4.

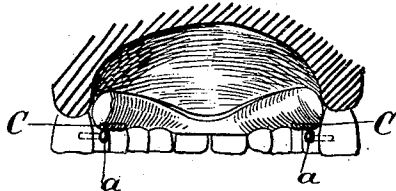


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID BUREN MCHENRY, OF GRENADA, MISSISSIPPI.

ARTIFICIAL TOOTH.

SPECIFICATION forming part of Letters Patent No. 475,141, dated May 17, 1892.

Application filed December 21, 1891. Serial No. 415,759. (No model.)

To all whom it may concern.

Be it known that I, DAVID BUREN MCHENRY, of Grenada, in the county of Grenada and State of Mississippi, have invented a new and useful Improvement in Artificial Teeth, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is an inverted plan view of a partial plate constructed according to my improvement, showing its application to the jaw. Fig. 2 is an inverted plan view of the partial plate detached from the jaw. Fig. 3 is a transverse section taken on line *xx* in Fig. 2. Fig. 4 is a rear elevation; and Fig. 5 is a rear elevation of a tooth, showing a modified form.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide means of securely fastening a partial plate of artificial teeth in the mouth.

My invention consists in fastenings formed of studs, pins, or screws inserted in the natural teeth or in permanently-mounted artificial crowns and projecting a short distance therefrom and removed from the gums a sufficient distance to admit of slipping the edge of the plate under the fastening, all as will be hereinafter more fully described.

In carrying out my invention I take the impression of the mouth in the usual way and form a model having casts of the natural teeth or artificial crowns, and upon the model I build a plate of wax or gutta-percha, securing the artificial teeth to the wax or gutta-percha plate in the spaces between the natural teeth, the plate being made narrow and of the general contour of the jaw, leaving the central portion of the hard palate exposed. The temporary plate thus formed is molded in a flask in the usual way for vulcanizing, after which the temporary plate is removed and a body A, of rubber or analogous material, is inserted in its place, and when deemed necessary in the material of the plate is embedded a wire

or rod B, of platinum or other suitable metal, to give strength and rigidity to the finished plate. I also attach wearing-plates C, of gold or other suitable material, which are fastened by pins or studs or by beveling the edges of the plate and embedding it in the rubber. The plate is then vulcanized and finished in the usual way. In two of the natural teeth are drilled holes, into which are inserted screws, pins, or studs *a*, of gold or other suitable material, which project into position to be engaged by metallic plates fastened to the rubber plate. In the present case I have shown the studs projecting from the inner sides of the molars; but it is obvious that they may be inserted in other teeth or in another side of the same tooth, where the insertion of a removable bridge is contemplated. The holes for receiving the studs *a* are drilled in portions of the teeth, which are as far removed as possible from the nerve-cavity, and where it becomes necessary to drill the holes for these studs near the grinding-surface of the teeth the pins are bent toward the roots of the tooth, as shown in Fig. 5. With this arrangement the hole is near the grinding-surface of the tooth and the end of the stud which is utilized in locking the plate is near the gums. The plate is inserted in the mouth and the rear extremity thereof is sprung over the studs *a*, as shown in Figs. 1 and 4.

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

A partial dental plate formed of a strip of rubber or analogous material, conforming to the general contour of the jaw, having ends adapted to spring inwardly, and fastenings—studs inserted in the natural teeth, substantially as specified.

DAVID BUREN MCHENRY.

Witnesses:

SAML. HART,
B. P. CHATHAM.