

N. C. Fowler. Artificial Teeth

No 46346.

Patented Feb. 14. 1865.

Fig. 3.



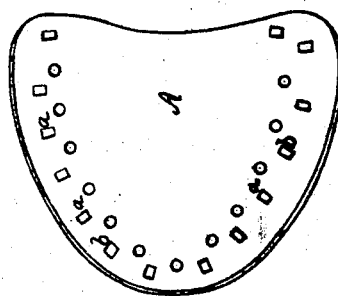
Fig. 4.



Fig. 1.



Fig. 2.



Witnesses.

W. H. Hale Jr.
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by his attorney

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UNITED STATES PATENT OFFICE.

NATHANIEL C. FOWLER, OF YARMOUTH PORT, MASSACHUSETTS.

IMPROVEMENT IN ARTIFICIAL TEETH.

Specification forming part of Letters Patent No. **46,346**, dated February 14, 1865.

To all whom it may concern:

Be it known that I, NATHANIEL C. FOWLER, of Yarmouth Port, in the county of Barnstable and State of Massachusetts, have made a new and useful invention, having reference to the Manufacture of Sets of Artificial Teeth; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings.

The nature of my invention consists of an aluminium plate for supporting the teeth by means of a vulcanizable composition of caoutchouc, as made with hooks or projections punched up from it, and arranged in manner and with holes, as hereinafter described, such projection and holes being for the purpose of holding the plate to the vulcanite.

Figure 1 denotes a longitudinal section of an upper set of teeth as provided with one of my aluminium section-plates. Fig. 2 is an under side view of such plate. Fig. 3 is a transverse section of the plate and the hooks punched up from it. Fig. 4 is another transverse section of the plate, showing how a staple may be punched up from it.

It is well known that it is difficult, if not impossible, to solder two pieces of aluminium together, no way of doing such to good advantage having thus far been discovered. In consequence of this, vulcanizable caoutchouc has to be employed for connecting the plate with a series of teeth. In order to cause the vulcanite to fasten itself to the plate, I have heretofore, or before my present invention,

made tapering holes through the plate, the vulcanite being run into such holes.

In carrying out my present invention or improvement, I, by means of a punch, form holes in the plate, and press upward above the surface of the plate, and in the form of hooks or staples, the parts of the plate forced from it in making the holes.

In the drawings, A denotes the suction-plate, B B the blocks of teeth, and C the vulcanite composition, the whole being arranged as represented. The plate has holes *a a*, &c., punched through it, with the parts *b b b* of the metal partially separated from the plate in the process of forming such holes raised above the surface of the plate, either in the form of hooks, as shown at *c c*, or in the form of staples, as shown at *d d*. The vulcanite being cast or molded around the hooks or staples and into the holes of the plate will, when released, hold to the said plate to great advantage, in fact much stronger than it will in tapering holes.

What I claim as my invention is—

The improved manufacture of aluminium suction plate for dental purposes—that is, with holes and hooks, or staples combined with it—and made by means substantially as specified.

NATHL. C. FOWLER.

Witnesses:

R. H. EDDY,
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