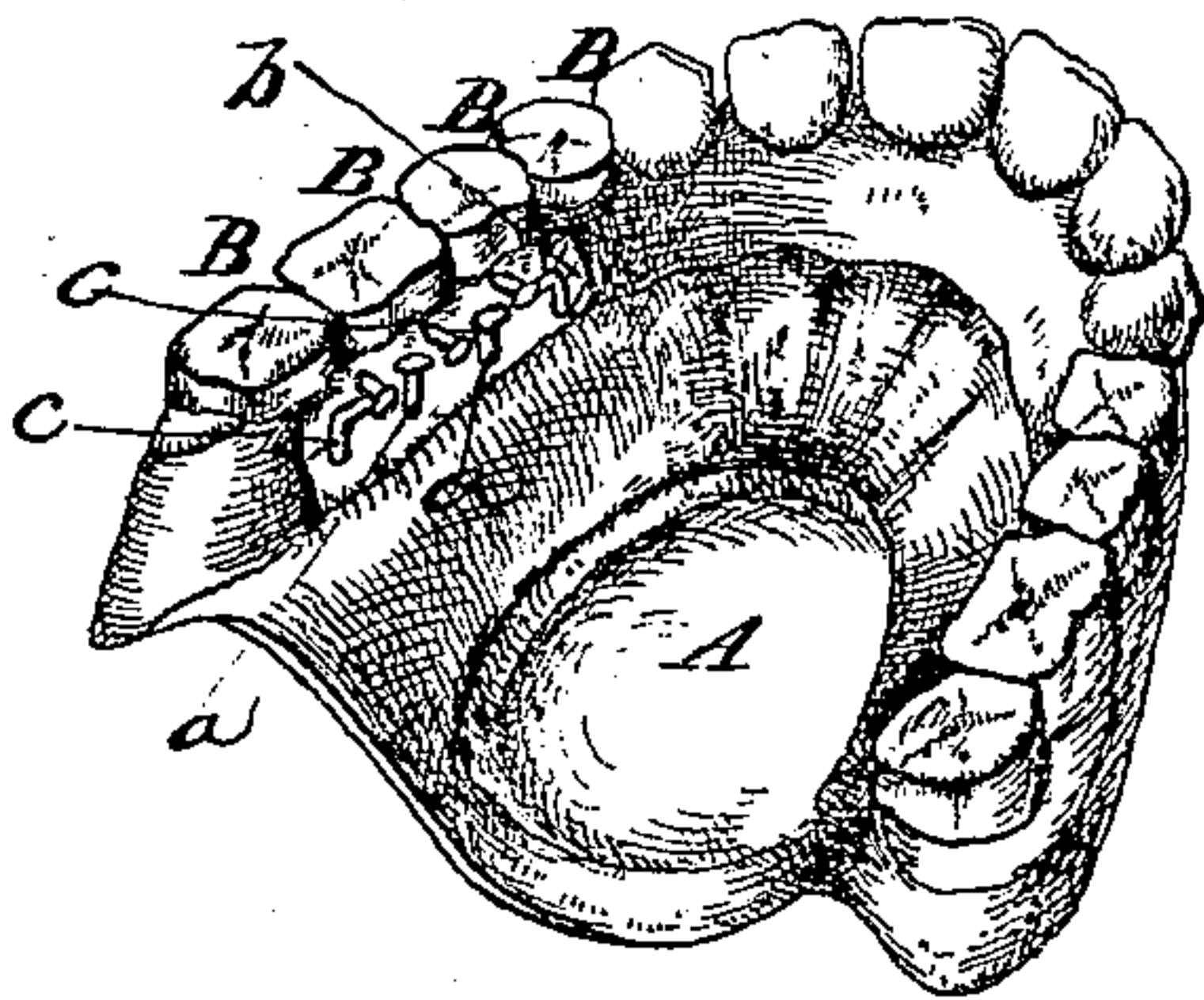


*S. D. Engle,*  
*Artificial Teeth.*  
*N<sup>o</sup> 42,933. Patented May 31, 1864.*



*Witnesses:*  
*Henry Morris*  
*J. H. Coorules*

*Inventor:*  
*S. D. Engle*  
*per Munn & Co*  
*Attorneys*

# UNITED STATES PATENT OFFICE.

S. D. ENGLE, OF HAZLETON, PENNSYLVANIA.

## IMPROVEMENT IN ARTIFICIAL TEETH.

Specification forming part of Letters Patent No. 42,933, dated May 31, 1864.

*To all whom it may concern:*

Be it known that I, S. D. ENGLE, of Hazleton, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Improvement in Artificial Dentures; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, said drawing representing an inverted perspective view of an upper set of teeth, and showing some of the vulcanite to have been removed or omitted to expose the stays or hooks which constitute my invention.

This invention relates to dentures in which the teeth are secured to a metallic plate by means of vulcanite; and it consists in the employment of metal stays or hooks soldered to the metallic plate, in combination with projecting pins on the teeth and a vulcanite connection, the principal objects being to obviate the warping of the plate, to reduce the work of fitting the teeth thereto, and to form a better hold for the vulcanite, and thereby enable the teeth to be more firmly secured thereto.

To enable others skilled in the art to apply my invention to use, I will proceed to describe it with reference to the drawings.

A is the plate, and B B are the teeth. The teeth are of the kind furnished on their inner sides above the lingual surfaces with pins *a a*, and now commonly used for vulcanite work. *c c* are the stays or hooks, which constitute my invention, made of platinum or

other wire and soldered to the plate upon the ridge which conforms to the alveolar ridge of the gum. These stays or hooks are so arranged that they come between the pins *a a* of the teeth, so that the vulcanite *b*, surrounding the said stays or hooks and the pins *a a*, is attached very securely both to the teeth and the plate and secures the teeth firmly to the plate.

The use of the stays or hooks *c c*, soldered to the plate and not to the teeth, obviates the warping of the plate, which frequently results when stays are soldered both to the plate and teeth, and also obviates the danger of cracking the teeth. It reduces the work of fitting the teeth by obviating the necessity of grinding the teeth to fit the plate. It also prevents mucus and food from getting under the teeth and producing fetor.

The invention is applicable to whole sets or to the fastening of single sections or plain teeth to metallic plates by means of vulcanite.

What I claim as my invention, and desire to secure by Letters Patent, is—

The metal stays or hooks *c c*, soldered to the metallic plate, in combination with the pins *a* of the teeth, and with the vulcanite for securing the teeth to the plate, all as herein specified.

S. D. ENGLE.

Witnesses:

W. KISNER,  
JOHN BEISEL.