

Specification of James Thom : artificial teeth.

Contributors

Thom, James.

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A.D. 1857 N° 271.

S P E C I F I C A T I O N

OF

JAMES THOM.

—
ARTIFICIAL TEETH.
—

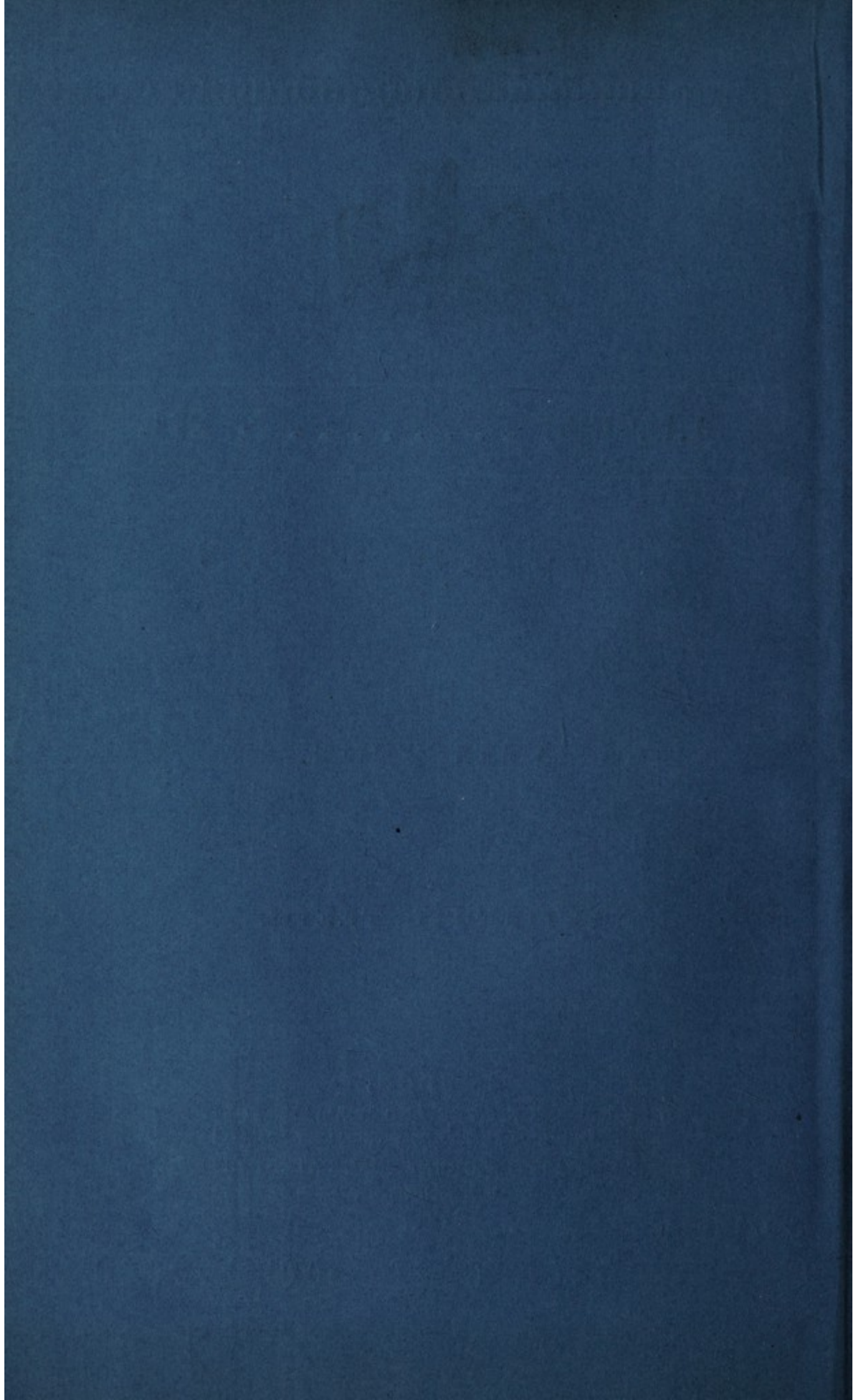
LONDON:

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1857.





A.D. 1857 N° 271.

Artificial Teeth.

LETTERS PATENT to James Thom, of Lambeth, in the County of Surrey, Mechanical Dentist, for the Invention of "**IMPROVEMENTS IN THE CONSTRUCTION AND MODE OF FIXING ARTIFICIAL TEETH.**"

Sealed the 14th April 1857, and dated the 30th January 1857.

PROVISIONAL SPECIFICATION left by the said James Thom at the Office of the Commissioners of Patents, with his Petition, on the 30th January 1857.

I, JAMES THOM, of Lambeth, in the County of Surrey, Mechanical Dentist, 5 do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN THE CONSTRUCTION AND MODE OF FIXING ARTIFICIAL TEETH,**" to be as follows:—

The object of these improvements is to facilitate the attachment of artificial teeth, and in such manner that any one tooth of a set may be readily removed for repairs, or be exchanged, without disturbance or injury to any other tooth 10 in the set. For this purpose a dovetailed groove is formed in the back or inner surface of the tooth, which groove slides upon a corresponding dovetailed stem or wire attached to the artificial palate. In order to strengthen the tooth, I make the dovetailed groove of thin metal, and of such shape that some of its projecting parts or edges may be imbedded in the porcelain or

Thom's Improvements in the Construction and Mode of Fixing Artificial Teeth.

other material of which the tooth is constructed; the dovetailed groove may however be formed in the material itself, or it may be affixed thereto by riveting, or otherwise. When the tooth is slid upon the dovetailed stem, it may be secured in its place by any suitable cement, the heating of which will permit the withdrawal of the tooth whenever it is necessary. 5

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said James Thom in the Great Seal Patent Office on the 29th July 1857.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES THOM, of Lambeth, in the County of Surrey, Mechanical Dentist, send 10 greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Thirtieth day of January, in the year of our Lord One thousand eight hundred and fifty-seven, in the twentieth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the 15 said James Thom, Her special licence that I, the said James Thom, my executors, administrators, and assigns, or such others as I, the said James Thom, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, 20 and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN THE CONSTRUCTION AND MODE OF FIXING ARTIFICIAL TEETH,**" upon the condition (amongst others) that I, the said James Thom, my executors or administrators, by an instrument in writing under my, or their, or one of their 25 hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent. 30

NOW KNOW YE, that I, the said James Thom, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, reference being had to the accompanying Drawings, and to the letters of reference marked thereon, that is to say:— 35

Thom's Improvements in the Construction and Mode of Fixing Artificial Teeth.

The object of these improvements is to facilitate the attachment of artificial teeth, and in such manner that any one tooth of a set may be readily removed for repairs, or be exchanged, without disturbance or injury to any other tooth in the set. For this purpose a dovetailed groove is formed on the back or
5 inner surface of the tooth, which groove slides upon a corresponding dovetailed stem or wire attached to the artificial palate. In order to strengthen the tooth, I make the dovetailed groove of thin metal, and of such a shape that some of its projecting parts or edges may be imbedded in the porcelain or other material of which the tooth is constructed; the dovetailed groove may
10 however be formed in the material of the tooth itself, or it may be affixed thereto by rivetting, or otherwise. When the tooth is slid upon the dovetailed stem, it may be secured in its place by any suitable cement, the heating of which will permit the withdrawal of the tooth whenever it is necessary.

Figure 1 is an enlarged representation (end view), and Figure 2, a back,
15 or inside view, of an artificial tooth, constructed agreeably to my improvement, of porcelain, or other suitable plastic material, and furnished with the dovetailed groove *a, a*. Figure 3 is an end view of another tooth, in which the dovetailed groove *b* is formed of thin metal, and inserted in the material of which the tooth is composed. Figure 4 is an end view; and Figure 5, a longitudinal edge
20 view of the metal groove detached; the edges *c, c*, are turned upward and inward, and jagged, and there are loops *d, d*, which being imbedded in the material of the tooth, give it strength and coherence, and unite the tooth and groove inseparably together. Figures 6 and 7 are end views of teeth, in which the form of the dovetailed groove is varied, as it may be without prejudice to
25 my Invention; Figure 8 is a front view of an artificial palate furnished with tooth plates *e, e*, on each of which there is a dovetailed stem *f*, either solid or hollow, corresponding to the groove *a* or *b* of the tooth. Teeth of a suitable character are slid upon the stems *f*, up against the artificial palate, which forms a stop or abutment, and supports the tooth when used for mastication &c., as
30 is shewn by Figure 10, which is a side or edge section of the palate and tooth. Figure 9 is a front view of the artificial palate and teeth complete, the teeth being kept in their places by means of a cement capable of being softened by heat. The cement commonly used by dentists, and known by the name of silpher, is well adapted for this purpose. In the event of any tooth of the set
35 requiring to be removed for repair or otherwise, heat is applied to soften the cement, when the tooth can be slid down the stem and readily withdrawn from its place.

What I claim as my Invention, and secure to me by the before-recited

Thom's Improvements in the Construction and Mode of Fixing Artificial Teeth.

Letters Patent is, the construction and mode of fixing artificial teeth, as herein-before described, and shewn in the annexed Drawings.

In witness whereof, I, the said James Thom, have hereunto set my hand and seal, this Thirtieth day of July, in the year of our Lord One thousand eight hundred and fifty-seven. 5

JAMES THOM. (L.S.)

Witness,

W. BADDELEY.

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Printers to the Queen's most Excellent Majesty. 1857.

376

FIG. 1.



FIG. 2.

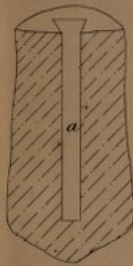


FIG. 3.



FIG. 4.



FIG. 5.

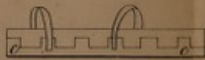


FIG. 6.



FIG. 7.



FIG. 8.



FIG. 9.



FIG. 10.



The first drawing is colored.

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