

S. B. Sill.

Polishing Artificial Teeth.

N<sup>o</sup> 87,303.

Patented Feb. 23, 1869.

Fig. 1.

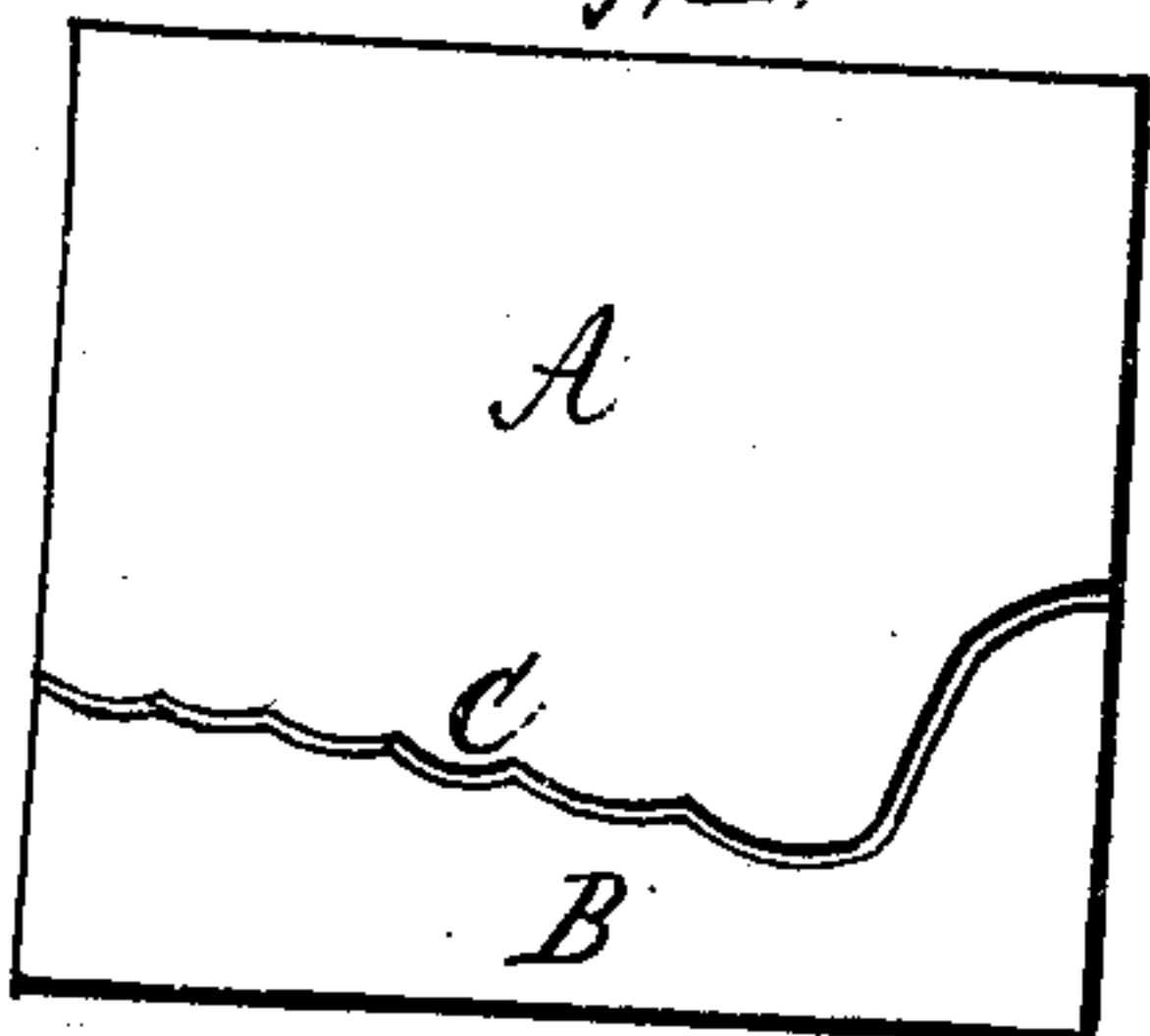


Fig. 2.

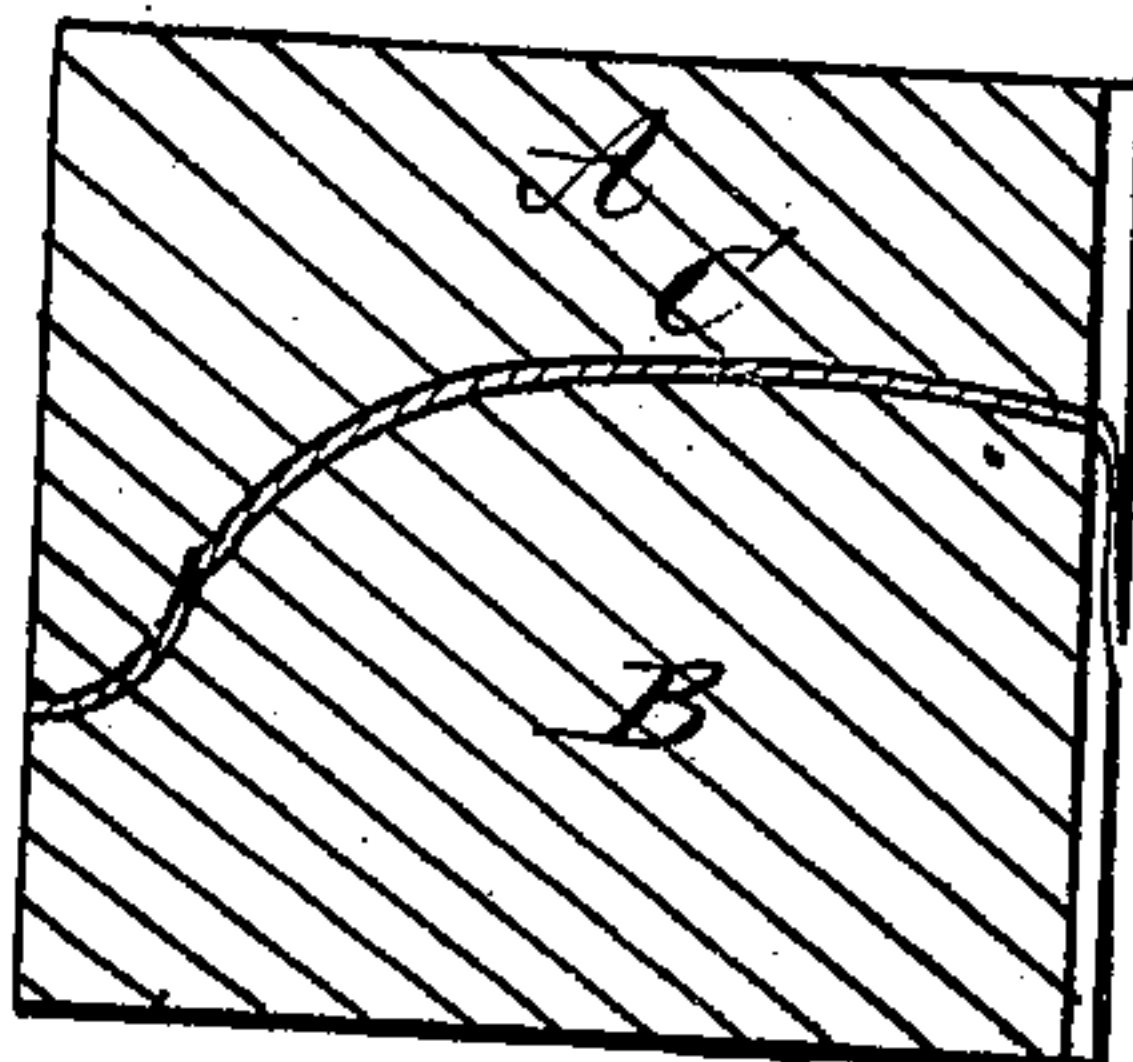


Fig. 3.

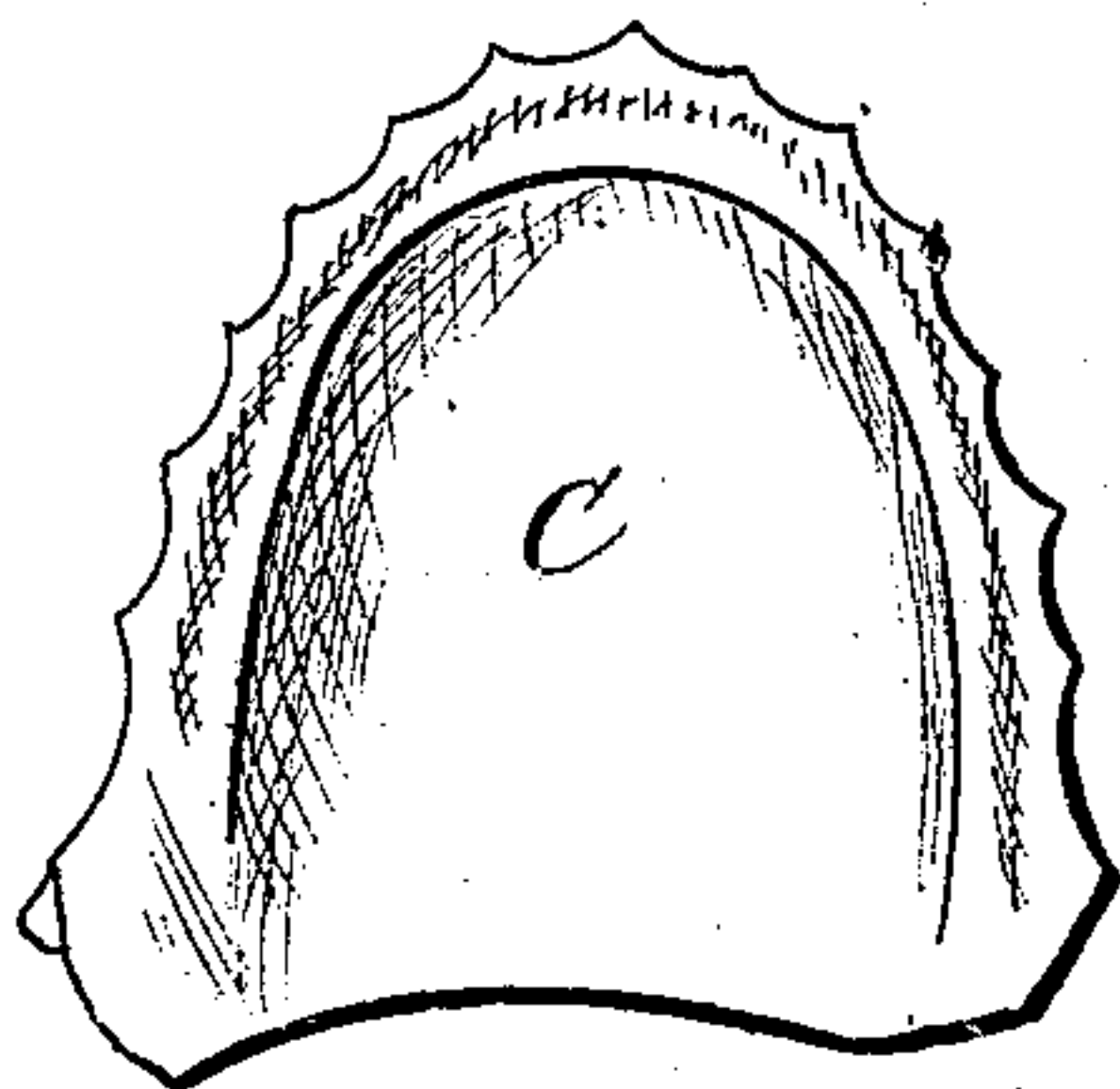
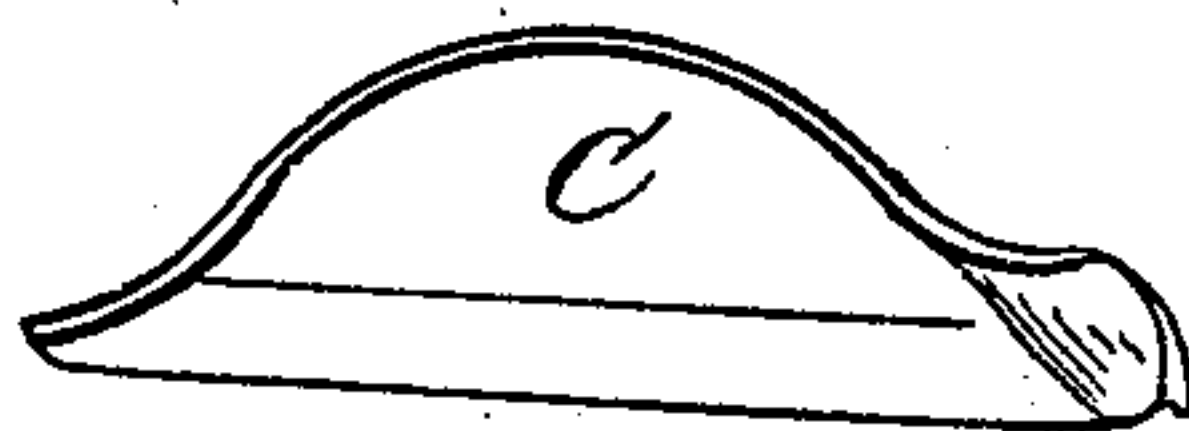


Fig. 4.



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SIDNEY B. SILL, OF THREE RIVERS, MICHIGAN.

*Letters Patent No. 87,303, dated February 23, 1869.*

**IMPROVED MODE OF POLISHING ARTIFICIAL TEETH.**

*The Schedule referred to in these Letters Patent and making part of the same.*

*To all whom it may concern:*

Be it known that I, SIDNEY B. SILL, of Three Rivers, in the county of St. Joseph, and State of Michigan, have invented a new and valuable Improvement in Means for Polishing the Lingual Surfaces of Tooth-Plates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of the dies used in forming my metallic plate;

Figure 2 is a sectional view of the same; and

Figures 3 and 4 are details.

The nature of my invention consists in providing better means than have heretofore been used or known, for smoothing and polishing the lingual surfaces of artificial-tooth plates.

It is well known that in the process of polishing the lingual surfaces of India-rubber tooth-plates, the operator has been confined mainly to the use of scrapers, files, brush-wheels, and the like, and as a consequence, the polish, if effected at all, has been made with great labor and imperfection.

It frequently happens, also, that by reason of the ineffective means above referred to, the plates are used with a very defective polish, causing uneasiness and irritation to the tongue.

To remedy this evil, I take a metallic casting from the original gypsum form, which said casting is represented on the drawings by letters A and B. I then take

a thin sheet of metal, and swage it between the parts A and B, and thereby impress upon it the exact configuration of the lower surface of part A, and the upper surface of part B.

This thin metallic sheet is marked C on the drawings, and it is represented after the swaging-process has been perfected.

I next take the plate C and place it upon the lingual surface of the gum-plate, while said plate is undergoing the process of cooling in the flask, or vulcanizer, and press it firmly, but gently upon the same. After this adjustment, I allow the gum and plate to remain until the former becomes thoroughly cool and hard, when I throw the plate away.

By this means the surface of the tooth-plate, upon which the plate C is placed, becomes beautifully polished and smooth, without the use of any polishing or smoothing-instrument whatever.

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

1. Swaging a metallic plate between dies, to provide means of polishing the lingual surfaces of India-rubber tooth-plates, substantially as described.

2. The plate C, prepared as herein specified, substantially as and for the purposes set forth.

In testimony that I claim the above, I have hereunto subscribed my name, in the presence of two witnesses.

SIDNEY B. SILL.

Witnesses:

JNO. S. MOUREY,  
A. H. CARTER.