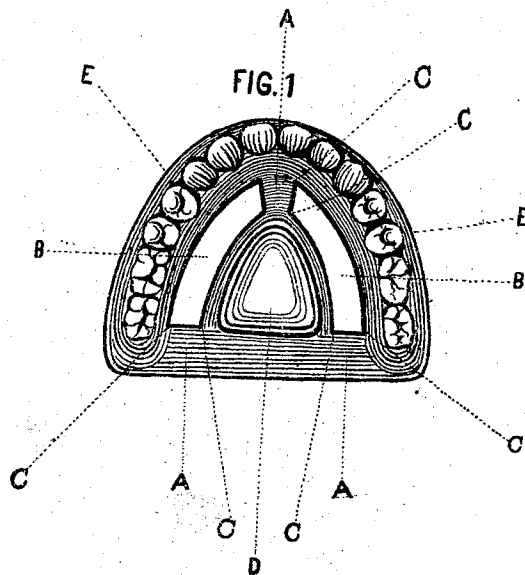


Inventors
S. Purvine & H. Smith
Improved Dental plate

No. 118,484.

Patented Aug. 29, 1871.



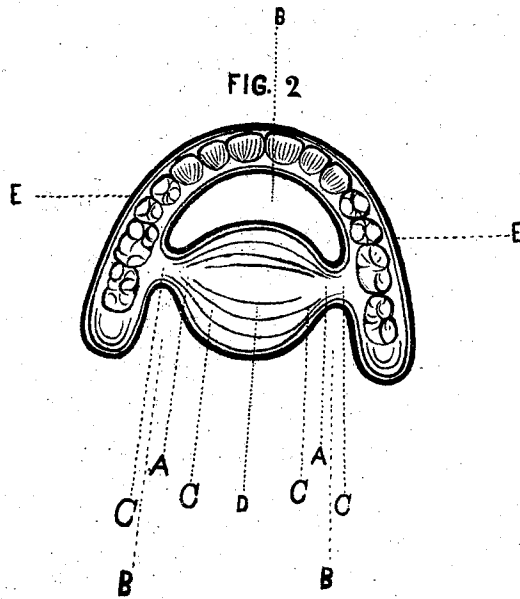
Witnesses
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Witnesses
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Morris H. Loring

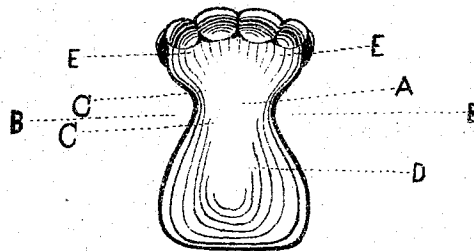
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FIG. 3



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UNITED STATES PATENT OFFICE.

SMILEY PURVINE AND HARRISON SMITH, OF SALEM, OREGON.

IMPROVEMENT IN DENTAL PLATES.

Specification forming part of Letters Patent No. 118,484, dated August 29, 1871.

To all whom it may concern:

Be it known that we, SMILEY PURVINE and HARRISON SMITH, of the city of Salem, in the county of Marion, in the State of Oregon, have invented certain Improvements in Suction or Atmospheric Dental Plates.

The nature and objects of our invention relate to the supporting of the plate to which the artificial teeth are attached by means of a bar or bars extending from the vacuum-chamber to the plate in such manner as to leave a portion or portions of the roof of the mouth or palatal arch exposed and preserve the natural taste in the mouth, and obviate the objection to the use of plates which cover the whole roof of the mouth; and this improvement relates to all partial as well as full sets of artificial teeth, as shown by the drawing which accompanies this application.

Figure 1 is a perspective view of a full set of artificial teeth embodying our invention in which three bars are used, as indicated by the letters *a*. Fig. 2 is a perspective view of a full set of artificial teeth embodying our invention in which two bars are used, as indicated by the letters *a*. Fig. 3 is a perspective view of a partial set of artificial teeth embodying our invention in which one bar is used, as indicated by the letter *a*.

The bar and bars, which we claim as part of our invention, are designated on the accompanying drawing by the letters *a*. The open spaces, which we claim as part of our invention, are designated by the letters *B* on said drawing. The place of the attachment of the bars with the vacuum and plate are designated by the letters *C*. The plate to which the teeth are attached, and which we do not claim as part of our invention, is indicated in said drawing by the letter *E*.

The vacuum-chamber, which we do not claim as part of our invention, is indicated in said drawing by the letter *D*.

To enable others skilled in the art to make and use our invention, we state that the bars and vacuum-chamber may be made of any material of which the base or plate is composed, or of any other material or metal used in the manufacture of dental plates; and if gold is used, or any metal that has to be swaged, for a vacuum-chamber, and bars where rubber is used for a plate, or any metal which is cast, or any material which is molded, the end of the bar which is to be attached to the plate is perforated with a few holes and the end of the bar raised a little above the mold, so that when the material which the plate is composed of hardens it makes a firm attachment to the end of the bar, sufficient to support the plate to the mouth under all circumstances.

In case of full sets we have to be governed by the shape and condition of the mouth. Some mouths may require three bars, while others would be better with only two, as shown by Figs. 1 and 2 in drawing.

The size of vacuum-chamber and width of bars and open space will be governed by the size, shape, and conditions of the mouth to which they are to be fitted.

We claim as our invention—

In a dental-plate, as a connection between the plate proper and the vacuum-chamber, the bar or bars with open spaces, as shown and described.

SMILEY PURVINE.
HARRISON SMITH.

Witnesses:

JOHN J. SHAW,
NORRIS H. LOONEY.