

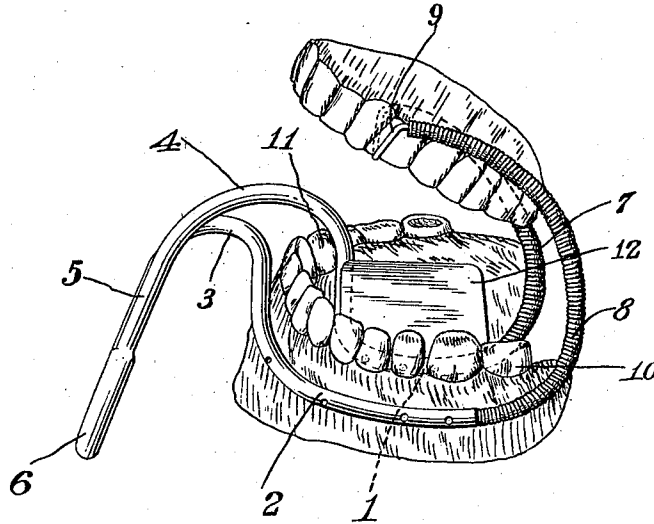
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SALIVA EJECTOR FOR USE IN DENTAL TREATMENT AND THE LIKE.

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1,401,646.

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UNITED STATES PATENT OFFICE.

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SALIVA-EJECTOR FOR USE IN DENTAL TREATMENT AND THE LIKE.

1,401,646.

Specification of Letters Patent.

Patented Dec. 27, 1921.

Application filed April 24, 1920. Serial No. 376,426.

To all whom it may concern:

Be it known that I, JENS AABERG RÖNN, a subject of the King of Denmark, and residing at Kolding, Jutland, Denmark, have invented a certain new and useful Saliva-Ejector for Use in Dental Treatment and the like, of which the following is a specification.

This invention relates to saliva ejectors used in dental treatment and the like, especially in the lower jaw, and its object is to insure an effective drying of the teeth and gums, which is impossible with the simple saliva absorbers generally used. The invention has particular relation to saliva ejectors that are provided with two perforated tubular portions one of which acts on the lingual and the other on the malar and labial side of the gums whereby the saliva secreted both from the lingual salivary glands and from the parotid gland and other adjacent parts can be removed.

An important feature of the present invention consists in the provision of resilient means for maintaining the apparatus in place in the mouth.

A further important feature consists in forming the perforated tubes so that they extend from points respectively on the exterior and interior side of the left or right first molar or adjacent thereto to points on the exterior and interior side of the right or left eye tooth or in proximity thereto.

The accompanying drawing shows a perspective view of one form of construction by way of example, the apparatus being shown in operative relation with the jaws. The form of ejector shown is intended for drying the left half of the lower jaw. In treating the right half of the lower jaw an apparatus may be used having a form which is symmetrical to that shown.

The ejector consists of two bent, perforated tubes 1 and 2, which reach from points respectively on the exterior side and the interior side of the left first molar 10, or adjacent thereto, to points on the exterior and interior side of the right eye-tooth 11, or in proximity thereto. At this point the tube 2 is prolonged as at 3, which runs in a curve up over the lower lip to form a siphon, and

the tube 1 has a similar extension 4 which curves up over the front teeth and the lip. The two extensions 3 and 4 may be united as shown at 5 and be connected with a common suction tube 6 of rubber or the like. By pins, screws or similar fast or detachable connecting means, the rear ends of the tubes 1 and 2 are connected with suitable springs 7 and 8, for example helical springs which are coupled together by a member 9 which, when the springs are bent in the manner shown, can lie in contact with the upper jaw, thus holding the rear portions of the tubes 1 and 2 in place under pressure. The front part of the ejector is kept in place by means of the weight of the suction tube.

It is not necessary to construct the apparatus to a special left and right form. In many cases the apparatus will work satisfactorily if it consists only of the double siphon 3, 4; without the horizontal tube 1, 2. In connection with the double siphon 3, 4, or the like, there may be used horizontal suction tubes extending equally to the right and left and eventually extending along the jaw throughout its entire length. In connection with the interior tube 2 there may be disposed a plate-shaped member 12 to press the tongue down and away from the row of teeth under treatment. The shown details are not essential to the invention and can be modified in many different ways.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A saliva ejector comprising a perforated lingual tube, a perforated combined malar and labial tube, siphons connecting said tubes to a common discharge tube, and resilient means for retaining the rear portions of said tubes in position in the mouth.

2. A saliva ejector comprising a perforated lingual tube, a perforated combined malar and labial tube, said tubes reaching from the first molar to the opposite eye-tooth, siphon connecting said tubes to a common discharge tube, resilient means for retaining the rear portions of said tubes in position in the mouth and a tongue depressor mounted on said lingual tube.

3. A saliva ejector comprising a perfo-

rated lingual tube, a perforated combined
malar and labial tube, siphon connecting
said tubes to a common discharge tube,
coiled springs connected at one end to said
5 tubes and a coupling piece connecting the
other ends of said springs, said springs and
coupling piece being adapted to coöperate

with the upper jaw to hold the rear portions
of said perforated tubes in position in the
mouth.

In testimony whereof I have signed my
name to this specification.

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JENS AABERG RÖNN.