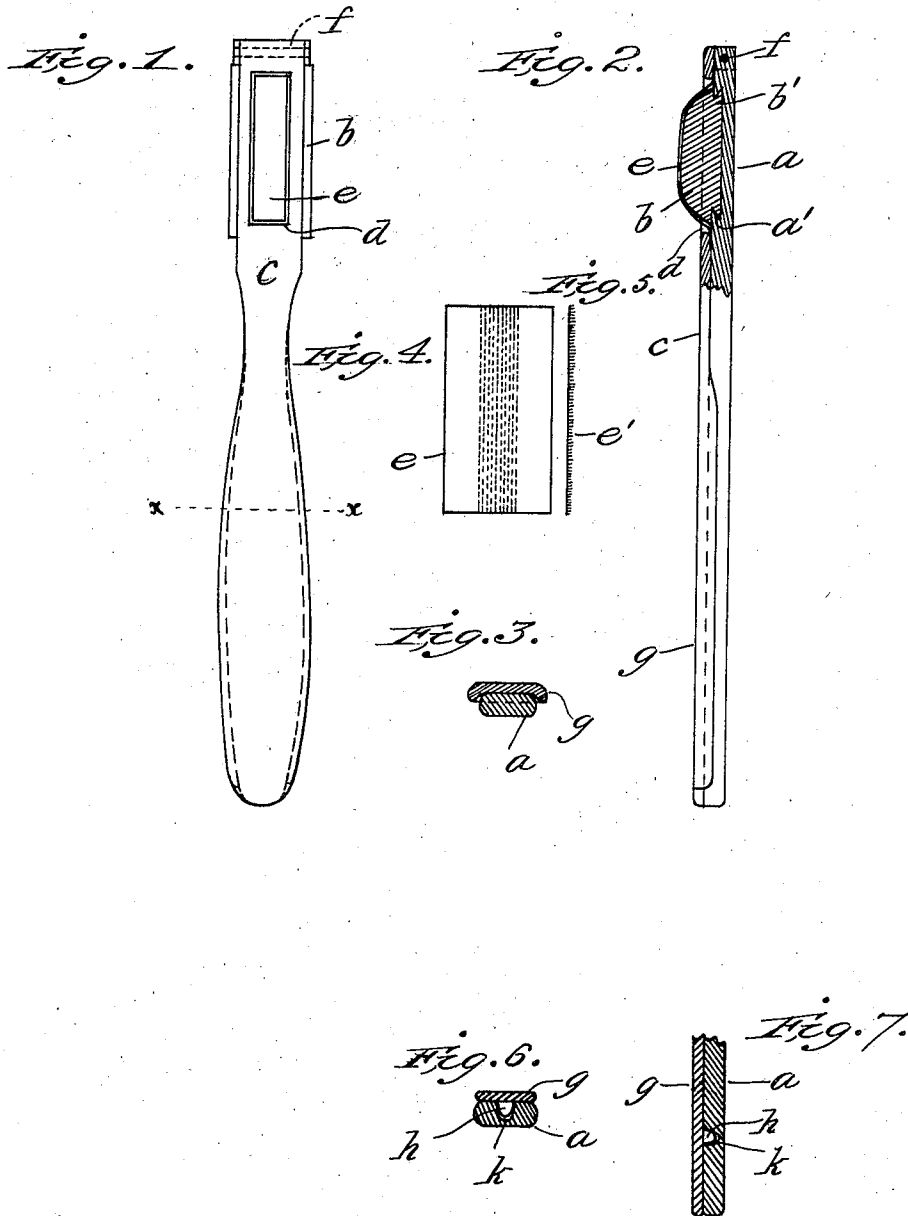


No. 877,585.

PATENTED JAN. 28, 1908.

L. J. F. NICOLAI.
RUBBING APPARATUS FOR THE GUMS.

APPLICATION FILED MAY 25, 1907.



Witnesses:
Thomas Durant
Melville D. Church

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his atty.

UNITED STATES PATENT OFFICE.

LUDWIG JOHANN FRIEDRICH NICOLAI, OF DRESDEN, GERMANY, ASSIGNOR TO "PHATECO" GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, OF DRESDEN, GERMANY.

RUBBING APPARATUS FOR THE GUMS.

No. 877,585.

Specification of Letters Patent.

Patented Jan. 28, 1908.

Application filed May 26, 1907. Serial No. 375,700.

To all whom it may concern:

Be it known that I, LUDWIG JOHANN FRIEDRICH NICOLAI, a subject of the Freie und Hansestadt, Hamburg, Germany, residing at Dresden, Saxony, Germany, have invented certain new and useful Improvements in Friction or Rubbing Apparatus Particularly Applicable for the Treatment of the Gums, of which the following is a specification.

This invention relates to a friction or rubbing device, chiefly intended for the treatment of gums.

The friction device consists in arranging on a plate provided with a handle, a projecting support for a piece of smooth fabric, plush, leather or the like, and further in a cover with an opening corresponding to the support, being arranged over the plate in such manner that the piece of material can be stretched over and securely held on the support. The friction instrument which in its shape may resemble a tooth brush, is chiefly intended for cleaning and rubbing the gums. The immediately operative part is constituted by a piece or pieces of fabric mounted on a hump-shaped support, in a detachable manner.

Figure 1 is a face view of a friction instrument constructed in accordance with the present invention. Fig. 2, is a side view partly in section. Fig. 3, is a section on the line $x-x$ Fig. 1. Figs. 4 and 5 are detail views of different kinds of friction fabric. Fig. 6 is a cross section through the handle of the back plate and extension of the cover plate showing a modified arrangement of the two parts. Fig. 7 is a vertical section thereof.

The plate a which at the end is formed into a handle, is provided with an arched support b of soft rubber. The support b may be secured to the plate a in any suitable manner, in the present instance said support being formed with a dovetailed extension b' fitting a corresponding recess a' in the plate a . Over the plate a is arranged a cover c provided with an opening d . The opening d corresponds to the dimensions of the support b . The frame formed by the opening en-

ables a piece of fabric e to be stretched over the support b and held fast.

The covering plate c is connected to the back plate a by means of a hinge f and is provided with an extension g corresponding to the handle of the back plate. By grasping g and a together, the cover is thus pressed against the back plate and held secure in that position. The extension g preferably partly surrounds the back plate a in the manner shown in Fig. 3, in order to insure the proper engagement of the two parts. The same object could, however, be attained by means of a pin or any other projection h on the extension g adapted to enter a recess k in the handle part of the back plate a .

The projection on the instrument can be covered with various pieces of fabric, which are supplied with the instrument in sets. The piece e (Fig. 2) is made of gauze-like fabric impregnated with a suitable cosmetic substance. For strong friction a piece e' (Fig. 4) is used of firm plush, for instance linen plush. Such pieces of fabric can be cut out from a ribbon having plush surface in the center and plain at the edges, or the whole piece could be of plush-like material, and the pile compressed under the covering plate c . Pieces of soft leather could also be advantageously supplied and used.

The support b need not be necessarily of soft material but could also be hard. In that case, if it is desired to have an elastic support for the rubbing piece of fabric, a piece of flannel or the like could be put under it.

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

1. A friction instrument comprising a handle, a projection on the end of the handle, an apertured cover adapted to fit over said projection and means for securing the cover to the handle substantially as set forth.

2. A friction instrument comprising a handle, a projection on the end of the handle, an apertured cover adapted to fit over said projection and a hinged connection between the cover and the handle substantially as set forth.

3. A friction instrument comprising a

handle, a curved projection on the end thereof, a cover plate with an opening adapted to fit over the projection and an extension fitting over the handle substantially
5 as set forth.

4. A friction instrument comprising a handle, a curved projection on the end thereof, a cover plate with an opening adapted to fit over the projection and exten-

sions fitting over both sides of the handle 10 substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LUDWIG JOHANN FRIEDRICH NICOLAI.

Witnesses:

OTTO WOLFF,

RICHARD ISSUTE.