

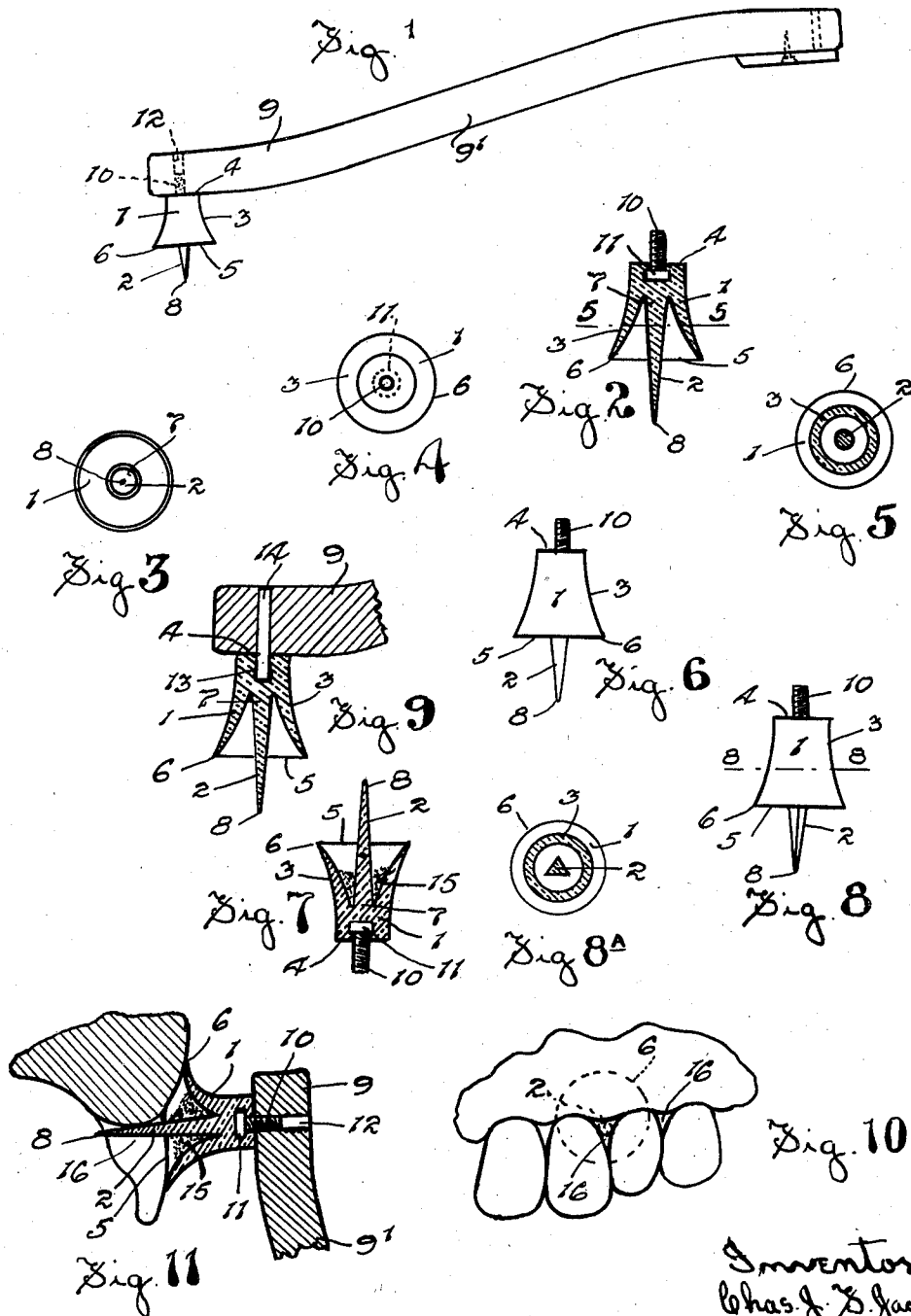
Feb. 6, 1940.

C. J. F. JACKSON

2,189,175

DENTAL MASSAGING, CLEANING, AND MEDICATING DEVICE

Filed May 20, 1938



Inventor
Chas. J. Jackson
By J. S. Roxburgh
His Atty

UNITED STATES PATENT OFFICE

2,189,175

DENTAL MASSAGING, CLEANING, AND
MEDICATING DEVICECharles Joseph Frederick Jackson, Winnipeg,
Manitoba, Canada

Application May 20, 1938, Serial No. 209,094

1 Claim. (Cl. 128-62)

The invention relates to a dental massaging, cleaning, and medicating device and more particularly to a device which can be used to simultaneously clean the faces of the teeth and the triangular interdental spaces between adjacent teeth, to massage and stimulate the gum surfaces including those of the interdental gingivae and to carry and apply a medicinal agent for the treatment of the teeth and gums when the cleaning and massaging work is being done.

In the accomplishment of the above purposes the present device includes a rubber or other soft, resilient, cleaning and massaging cup, a rubber or other soft, resilient, gradually tapering and pointed, cleaning and massaging prod centrally within the cup and having the pointed end thereof terminating at some distance from the mouth of the cup and the butt thereof formed preferably integral with the base of the cup, and suitable means for conveniently attaching the base of the cup to a handle or other manipulating device or member.

With the above foregoing features of the invention in view, and others thereof, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and details of construction hereinafter described and claimed, it being understood that changes in the invention as herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention will be readily understood from the following description, reference being had to the accompanying drawing in which:

Fig. 1 is a side view of the device mounted on a handle.

Fig. 2 is an enlarged vertical sectional view centrally through the device.

Fig. 3 is an inverted plan view of the device.

Fig. 4 is a top plan view of the device.

Fig. 5 is a sectional view at 5-5 Fig. 2.

Fig. 6 is a side view of the device.

Fig. 7 is a view similar to Fig. 2 but in the inverted position and showing the cup as containing a medicament or cleansing agent.

Fig. 8 is a side view of the device and showing a modified form of prod.

Fig. 8^A is a sectional view at 8-8 Fig. 8.

Fig. 9 is a sectional view similar to Fig. 2 and showing a modified type of fastening.

Fig. 10 is a front view of the gums and teeth and indicating the device in dotted outline.

Fig. 11 is a view showing the device in use, but appearing in vertical section.

In the drawing like characters of reference indicate corresponding parts in the several figures.

The device includes, as principal members, a cup 1 and a prod 2 both made from rubber or other soft, resilient material and preferably integrally formed. The cup is substantially bell shaped, the wall 3 thereof flaring outwardly from the base 4 to the mouth 5 and gradually diminishing in cross section, in a downward direction, and terminating in a relatively thin or feathered edge 6. The prod 2 is of tapered form and has the butt 7 thereof within the cup and integral with the base 4 and the pointed end thereof terminating, as shown, at some distance from the mouth of the cup. The prod can vary in cross section depending upon whatever is found the most efficient. In Fig. 3 it is shown as circular in cross section and in Fig. 8^A it appears as triangular in cross section.

Any desired means can be employed for releasably attaching the base of the cup to a handle 9 or other manipulating appliance. A screw 10 may be employed having an enlarged head 11 molded in the base of the cup and in this arrangement the handle is supplied with a screw threaded opening 12, adjacent the end thereof, to receive the screw. Obviously the screw can be readily screw threaded into the opening until the base of the cup is tightly seated against the handle and such an arrangement permits of the ready substitution of a new cup, as and when required. In Fig. 9 I have shown a modified fastening, wherein the base of the cup is provided with a hole 13 which is adapted to frictionally receive the extending end of a pin 14 permanently carried by the end of the handle.

It will be observed that the handle shown, has the body part 9' thereof, extending angularly in relation to the cup and prod. This allows the cup and prod to be conveniently used to treat either the inner sides or the outer sides of the teeth and gums as desired. Such shaped handle has been long used for the above purpose, in dental work, and accordingly forms no part of the present invention.

In Fig. 7 the cup appears in an inverted position to show how readily it will receive and hold a medicament or cleansing agent 15, in either the liquid, semi-liquid or paste form.

It will be particularly noted that the tapered form of the prod permits it to enter any one of the interdental spaces, whether large or small, and become engaged with the teeth and gums surrounding any selected space.

In the use of the device, the medicament or

cleansing agent, if such be used, is first put in the cup, as explained, and the tooth cleaning and gum massaging and stimulating device is then placed against the teeth and gums, either from the buccal or from the lingual, and with prod entered in one or other of the interdental spaces 16 (see Fig. 10). At this time the parts appear as best shown in Fig. 11 and it will be observed that the feather like edge 6 of the mouth of the cup is engaged with the teeth and gums and that the prod is engaged with the teeth and gum surfaces bordering the interdental space. By working the device by hand movement the teeth surfaces are effectively cleaned and treated and the contacted gum surfaces are massaged and stimulated and it will be particularly noted that the in and out movement of the cup feeds the medicament or cleansing agent to the teeth and gums and especially into the interdental space and pyorrhea pockets, such being due to the pumping action produced. The cup flexes in the latter in and out movement, but remains closely in contact with the teeth and gum surfaces and the natural outlet for the medicament or cleansing agent is into and through the small spaces surrounding the prod, so that the medicament or cleansing agent is effectively applied to those tooth and gum parts

surrounding and adjacent to the interdental space. The prod compresses or displaces the interdental gum tissue and insures that the medicament or cleansing agent is effectively forced into the spaces and pockets bordering the interdental space.

The device is quite effective, of course, for cleaning and massage purposes, where no medicament or cleansing agent is used, and whether such is employed or not is left entirely to the judgment of the operator and depending on the nature of the treatment desired.

What I claim as my invention is:

A tooth-cleaning and gum-massaging device comprising, a resilient suction cup having a relatively deep side wall gradually tapering to a relatively thin edge at the mouth, a gradually tapered, pointed, resilient prod, co-axial with the cup and extending from the base of the cup outwardly through the mouth thereof and having the pointed end terminating at some distance from the mouth of the cup and suitable means for attaching the base of the cup to a supporting member.

CHARLES JOSEPH FREDERICK JACKSON.