

March 25, 1924.

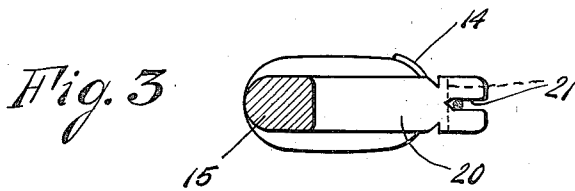
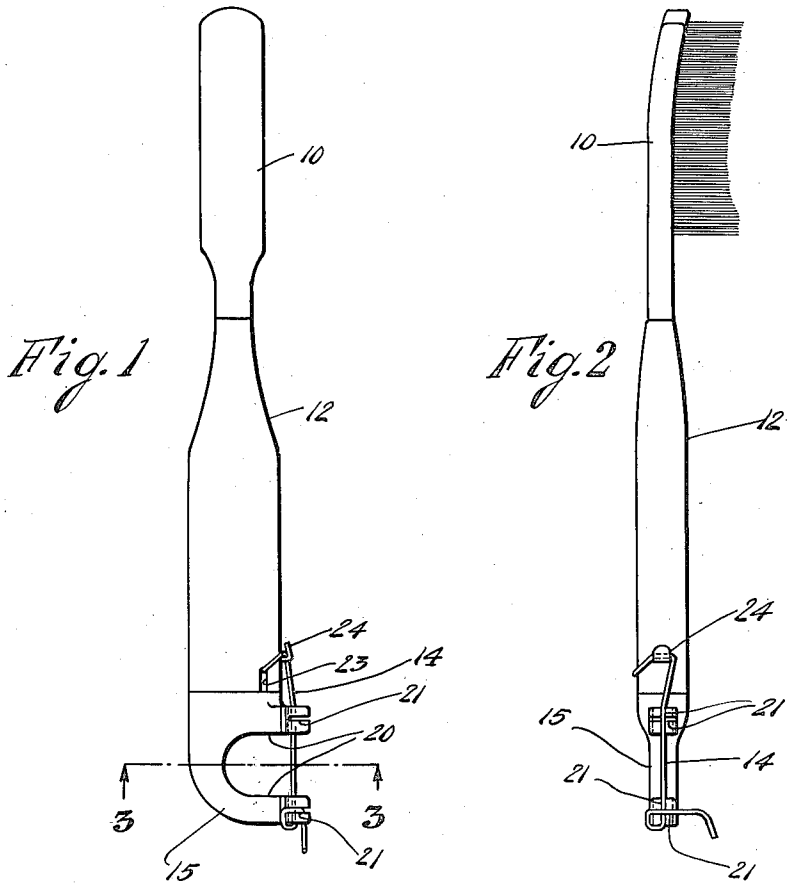
1,488,214

S. MASON

TOOTHBRUSH

Filed Jan. 6, 1923

2 Sheets-Sheet 1



Witnesses:

W. Schmelzback

[Signature]

Inventor:

Saul Mason

By Joshua H. Gotts.

His Attorney

March 25, 1924.

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S. MASON

TOOTHBRUSH

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2 Sheets-Sheet 2

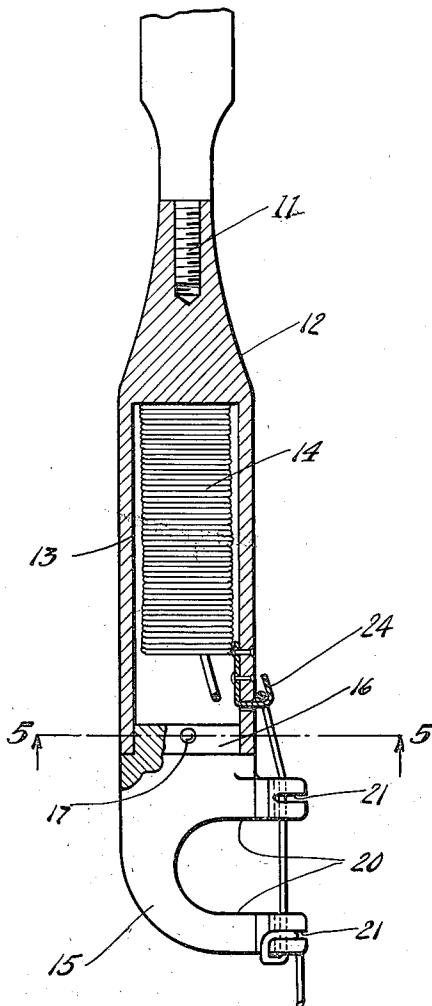


Fig. 4

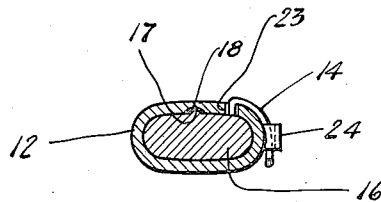


Fig. 5

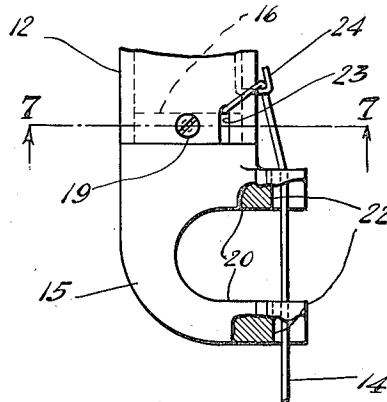


Fig. 6

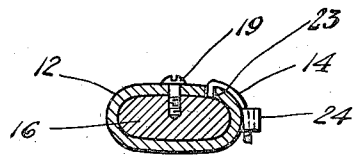


Fig. 7

Witnesses:

W. Smallhand
B. A. Smith

Inventor

Saul Mason

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UNITED STATES PATENT OFFICE.

SAUL MASON, OF SOUTH BEND, INDIANA.

TOOTHBRUSH.

Application filed January 6, 1923. Serial No. 610,958.

To all whom it may concern:

Be it known that I, SAUL MASON, a citizen of the United States, and a resident of the city of South Bend, county of St. Joseph, and State of Indiana, have invented certain new and useful Improvements in Toothbrushes, of which the following is a specification.

My invention relates to novel improvements in tooth brushes, and has for its principal object the provision of an attachment thereto for cleaning between the teeth, the attachment being of such construction that the same will be economical in manufacture and highly efficient in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1, is a top plan view of a tooth brush embodying the invention;

Fig. 2, is a side elevational view of the same;

Fig. 3, is a sectional view taken substantially on line 3—3 of Fig. 1;

Fig. 4, is an enlarged fragmentary top plan view, of the invention, partly in section;

Fig. 5, is a sectional view taken substantially on line 5—5 of Fig. 4;

Fig. 6, is a fragmentary view of the end of the handle of the tooth brush embodied in the invention, showing a slightly modified form of construction; and

Fig. 7, is a sectional view taken substantially on line 7—7 of Fig. 6.

Referring to the drawings showing the preferred form of construction 10 indicates the brush head, 11 a threaded stud shaft by means of which the head 10 is detachably secured to a handle 12, the handle 12 in the present instance being hollow to form a compartment 13 for the storage of a coil 14 of dental floss string. While the drawings illustrate the head 10 detachably secured to the handle 12 it is apparent that the handle and head can be manufactured in one piece. The advantage of manufacturing the tooth brush as illustrated is such that the head can be detached in order to arrange the

tooth brush parts in a convenient holder 55 (not shown), and by detaching the head, the handle with the attachment to be hereinafter set forth can be conveniently carried in the vest pocket within a suitable holder therefor. 60

The attachment embodied in the invention which makes it possible to clean the vertical edges of the teeth comprises a U-shaped member 15 having an integral hub 16 insertable in the compartment 13 as best illustrated in Fig. 4. The attachment can be held in the position illustrated in Fig. 4 by friction or by a small protuberance 17 bead like in shape and formed on the hub 16, for engagement with a depressed portion 18 70 formed in the adjacent wall of the handle. In Fig. 7 I show another method for detachably securing the attachment to the handle and in this instance the securing means comprises a screw 19, as illustrated. 75 The arms 20 of the U-shaped member extend substantially at right angles with respect to the handle when the member is attached thereto, this arrangement being preferred for the reasons that when the device is 80 operative the handle will not be in the way so as to interfere with cleaning the teeth.

Referring again to the attachment, means is provided for holding the portion of dental floss, to be used, taut bridging the 85 space between the arms 20 of the U-shaped member, this means, as illustrated in Fig. 4, comprises intersecting slots 21 within which the dental floss is frictionally held. This means, as described, of holding such por- 90 tion of the dental floss in position is the preferred form of construction, however, if desired aligned slots as indicated at 22 can be formed in the extremities of the arms 20 and will serve the purpose as well. The 95 dental floss is paid out of the compartment 13 through a slot 23 and passes under a combination holder and cutter 24 carried by the handle 12. From the holder 24 the dental floss is arranged in the slots formed 100 in the extremities of the arms 20 so as to bridge the space therebetween.

It is apparent from the construction that I provide a tooth cleaning device which will enable the user to conveniently clean the 105 vertical crevices between the teeth located furthest within the mouth as well as those located in the front of the mouth.

After the portion of dental floss bridging the space between the arms 20 has been used the user by removing this portion from the slots discards this portion by separating it
 5 from the unused floss by the cutter 24. After removing this portion he draws a portion of the dental floss from within the compartment of the handle and mounts this new portion in position for future use.

10 From the description and disclosure it will be seen that the structure of the device is simple and can be manufactured at a small cost whereby the device can be placed upon the market to sell at a reasonable retail
 15 price.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited
 20 to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within
 25 the scope of the appended claim.

Having described my invention, what I

claim as new and desire to secure by Letters Patent is:

A combination tooth brush and dental floss holder including a handle having a
 30 brush head at one end and an opening at the other end leading to a compartment formed in the handle, a member having a hub portion insertable at the open end closing the opening and having parallel spaced
 35 apart arms with intersecting grooves formed in their extremities, a combination holder and guide mounted on the handle, and a coil of dental floss arranged in the compartment and adapted to be paid out there-
 40 from through a slot formed in the handle adjacent the hub and having the paid out portion of the floss passing under the holder and fixed in the intersecting grooves.

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

SAUL MASON.

Witnesses:

FREDA C. APPLETON,
 CLARENCE E. HEREDY.