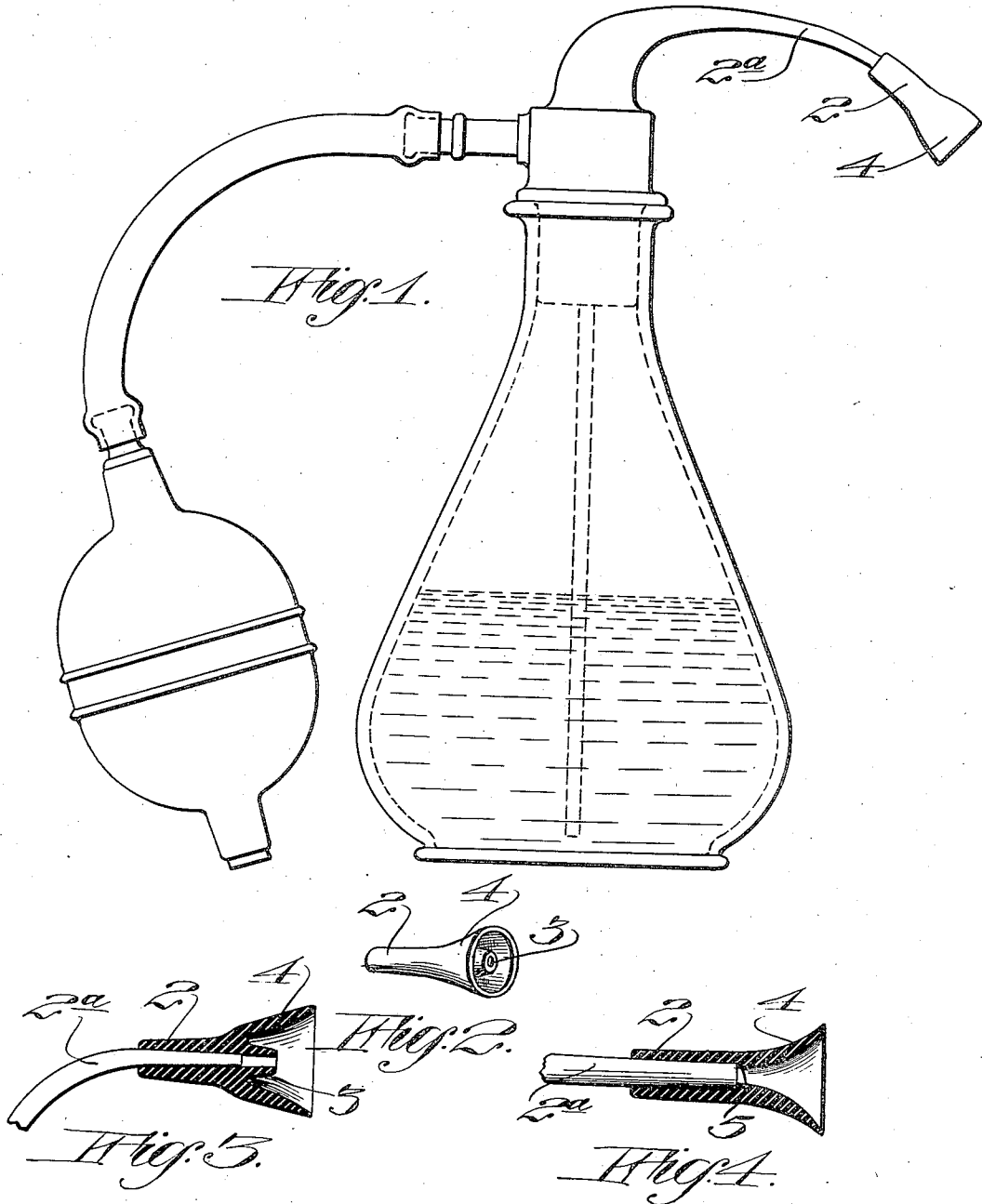


T. N. IGLEHART.
 DENTAL SYRINGE OBTUNDER.
 APPLICATION FILED AUG. 29, 1912.

1,064,331.

Patented June 10, 1913.



WITNESSES:
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UNITED STATES PATENT OFFICE.

THOMAS NELSON IGLEHART, OF SAN FRANCISCO, CALIFORNIA.

DENTAL SYRINGE-OBTUNDER.

1,064,331.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed August 29, 1912. Serial No. 717,707.

To all whom it may concern:

Be it known that I, THOMAS NELSON IGLEHART, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Dental Syringe-Obtunders, of which the following is a specification.

This invention relates to a protective tip to be mounted on the end of spray nozzles of syringes or like devices.

The object of the invention is to provide a soft or flexible tip which may be mounted or attached to the discharge end of a spray nozzle or like device, in such a manner that it will prevent abrasion or injury to the gums as when the tip is applied to an oral dental syringe.

A further object of the invention is to generally improve this class of appliances so as to increase their utility, durability and efficiency.

Other objects and advantages will appear in the following specifications and drawings, in which—

Figure 1 is a side elevation of a spraying device showing the application on the spray nozzle of the protecting tip. Fig. 2 is a perspective view of the tip. Fig. 3 is a section of same. Fig. 4 is a similar section showing a slight modification.

The device here shown has been especially designed and constructed for application to oral dental syringes. A syringe of this nature is generally used by dentists for the purpose of cleansing the teeth and in particularly the spaces between same.

In operating a syringe it is almost necessary to bring the spray nozzle of same in contact with the teeth and gums, which often causes abrasion and injury to the gums. With the purpose in view of eliminating any unnecessary injury of this nature, and also for the purpose of confining the area of the spray issuing from the nozzle I have constructed a protective tip, the application of which is generally indicated at A, Fig. 1. This may be constructed of soft rubber or like flexible material, and can be brought in direct contact with the teeth and gums without causing any abra-

sion or injury to same. The preferred form of the tip is shown in Figs. 2 and 3.

The device consists of the main body portion 2, which is adapted to slip over the end of the nozzle 2^a, and it further consists of a central projection 3 and a funnel-shaped projection 4. Fig. 4 shows a slight modification of same in which the throat of the funnel is slightly contracted to form a shoulder 5, which will prevent the nozzle from being forced clear through the tip.

In operation, when it is desired to cleanse the teeth, it is only necessary to apply the tip to the part being cleansed, the funnel portion of the tip serving to confine and direct the spray to the particular part being sprayed, as for instance the spaces or openings between the teeth. The central projection 3 is provided for the purpose of bringing the discharge point of the nozzle as close to the part being sprayed as possible, so as to utilize the greatest force of the wash liquid.

The tip is neat in appearance, useful, reliable and efficient in its application. The material and finish of the device may be such as experience and judgment of the manufacturer may dictate.

I wish it understood that various changes in form, proportion and minor details of construction may be resorted to within the scope of the appended claim, and that I do not wish to limit myself to the specific design and construction here shown.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is—

The combination in a dental syringe obtunder, of a hollow, flexible body portion adapted to slip over the end of the syringe nozzle, and having a tubular soft-extension in line with the nozzle, and an exterior divergent cup-shaped portion surrounding the tubular center and extending beyond it.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

THOMAS NELSON IGLEHART.

Witnesses:

GEO. H. STRONG,

JOHN H. HERRING.