

J. ORTHWEIN.  
TOOTH BRUSH.  
APPLICATION FILED MAY 31, 1910.

991,798.

Patented May 9, 1911.

Fig. 1.

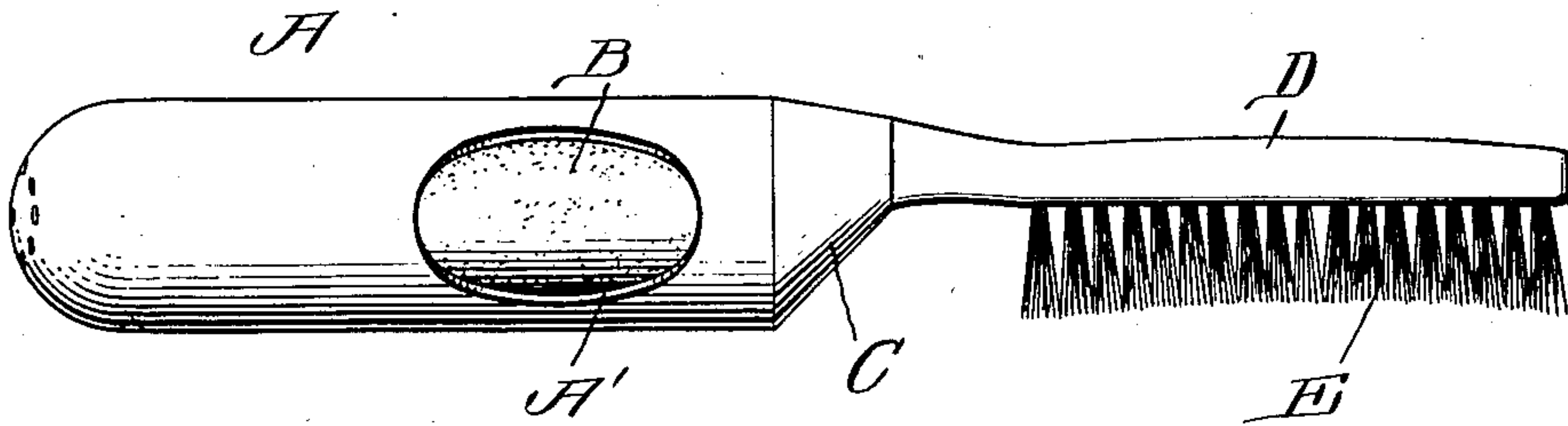


Fig. 2.

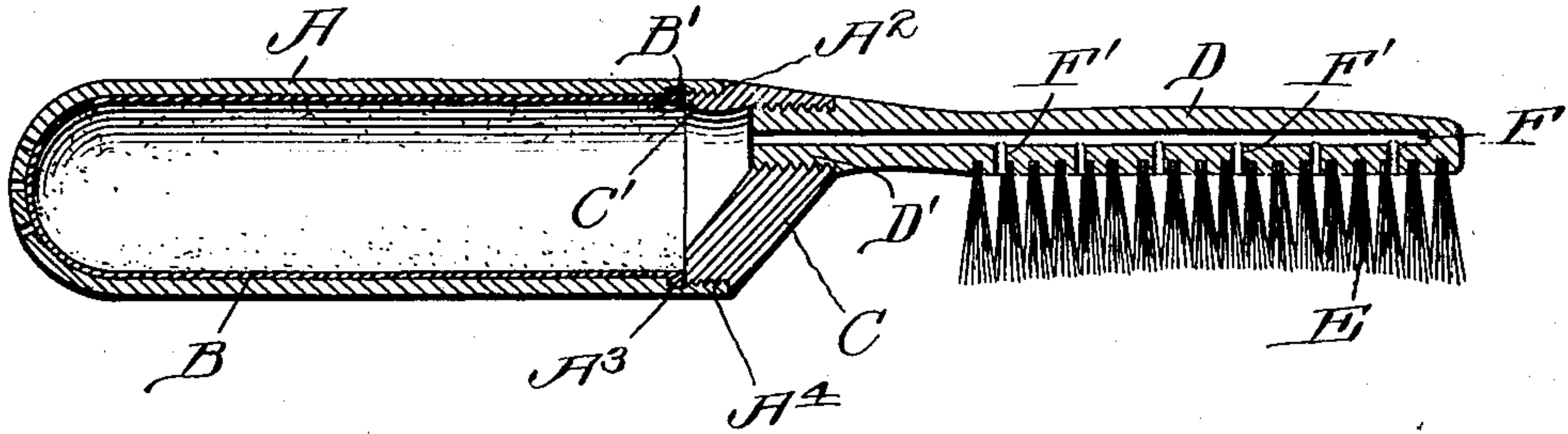


Fig. 3.

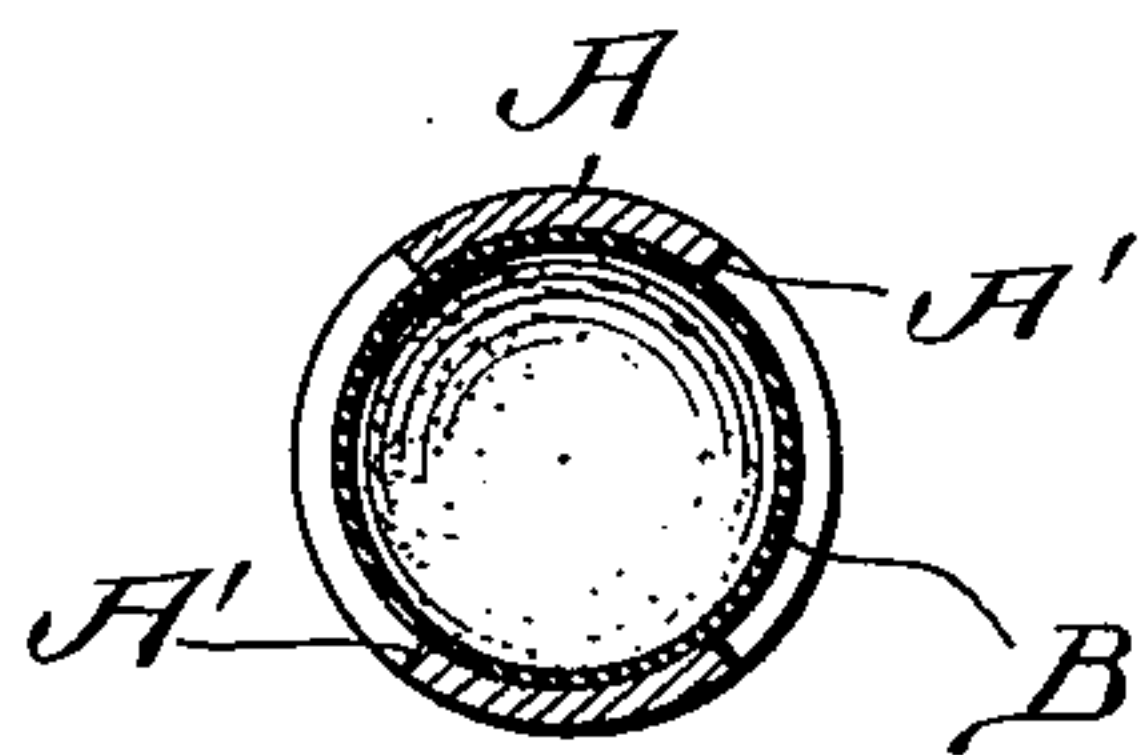
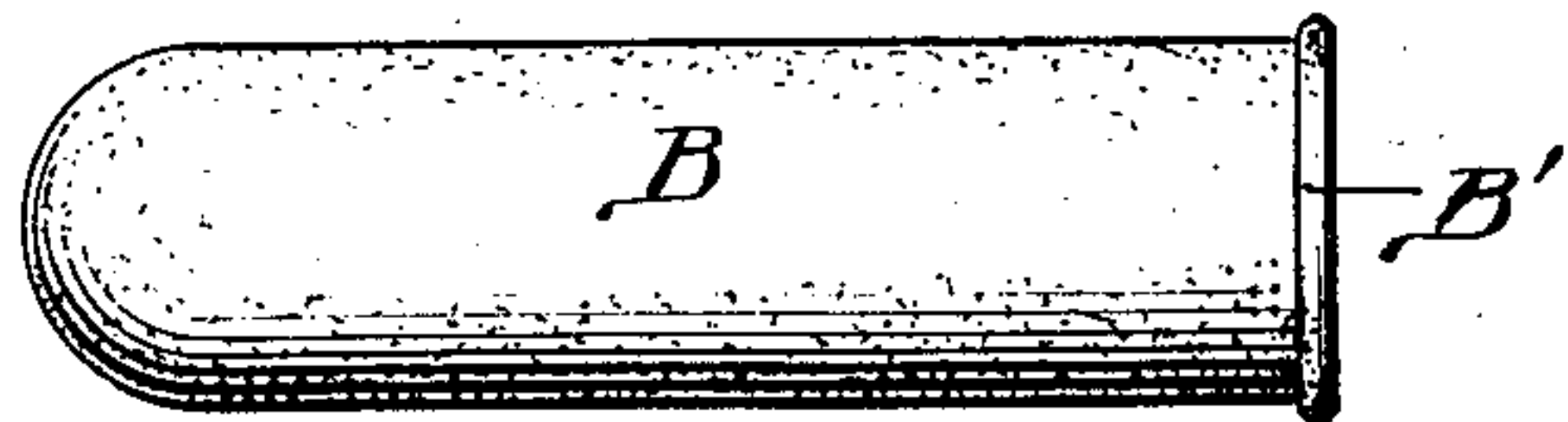


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## TOOTH-BRUSH.

991,798.

Specification of Letters Patent.

Patented May 9, 1911.

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*To all whom it may concern:*

Be it known that I, JOSEPH ORTHWEIN, a citizen of the United States, residing at Suffern, in the county of Rockland and State of New York, have invented a new and useful Improvement in a Tooth-Brush, of which the following is a specification.

This invention relates to tooth brushes, the object being to provide a tooth brush with a hollow handle adapted to contain a rubber tube for holding the liquid or paste, so that by squeezing the same, the liquid or paste therein will be forced on to the bristles of the brush, through passages formed therein.

Another object of my invention is to provide a brush which is exceedingly simple and cheap in construction, and one which is especially adapted to be used by traveling people, whereby a person having one of these brushes will not be compelled to carry a bottle of liquid or paste, as the paste is held within the handle in such a manner that it will not leak out.

A still further object of the invention is to provide a tooth brush which is exceedingly simple and cheap in construction and one in which the parts are so connected, that the same can be readily disconnected in order to thoroughly clean the same.

A still further object of the invention is to provide a brush which is formed of a hollow handle having oppositely disposed openings through which the fingers can extend for squeezing the liquid containing tube therein, whereby the liquid will be forced out of the tube into a passage formed in the head of the brush from which it is led through passages on to the bristles, whereby the amount of liquid fed onto the bristles can be readily controlled.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claim.

In the drawing forming a part of this specification: Figure 1 is a side elevation of my improved tooth brush. Fig. 2 is a

longitudinal vertical section through the same. Fig. 3 is a transverse section through the handle, and Fig. 4 is a detail view of the rubber tube.

In carrying out my invention I employ a hollow handle A, formed of any suitable material having oppositely disposed finger receiving openings A', and an opened end A<sup>2</sup>, which is annularly reduced internally to form a shoulder A<sup>3</sup>, and is threaded as shown at A<sup>4</sup>. The closed end of the handle is provided with perforations and mounted within the handle is a closed end rubber tube B having an annular rib or enlargement B' at its open end, adapted to fit against the shoulder of the handle, and to be clamped tightly by the threaded neck C' of a head C, which is screwed into the handle, so as to form a liquid tight joint.

The head C is provided with a threaded opening C<sup>2</sup>, in which is secured a threaded neck D' of a brush head D which is provided with bristles E, and a longitudinal passage F having branch passages F', extending out between the bristles, through which the liquid or paste contained within the rubber tube is adapted to be forced by compressing the tube within the handle.

By constructing a brush in this manner the parts can be readily assembled, or disconnected, and by placing liquid or paste within the rubber tube and screwing the head down tightly, the tube will be locked in the handle, in such a manner that when compressed by the fingers, inserted through the opening, the liquid therein will be forced gradually out on to the bristles.

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

A tooth brush of the kind described comprising a tubular handle having oppositely disposed finger receiving openings and apertured end, the open end of said handle being annularly reduced internally to form a shoulder, said portion being internally threaded, a closed end rubber tube arranged in said handle having an annular rib, the enlargement at its open end engaging the



shoulder of said handle, a threaded neck  
arranged within the open end of said handle  
engaging said rib and holding the same  
against the shoulder of the handle, said head  
5 being provided with a threaded opening, a  
brush head provided with a threaded neck  
secured in said opening, said brush head

being provided with bristles, and a longi-  
tudinal passage having branch passages.

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Witnesses:

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