(No Model.)

T. G. WONDERLY.

TOOTH BRUSH.

No. 430,909. Patented June 24, 1890.

Fig. 1.

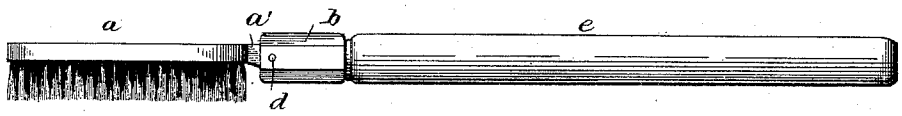


Fig. 2.

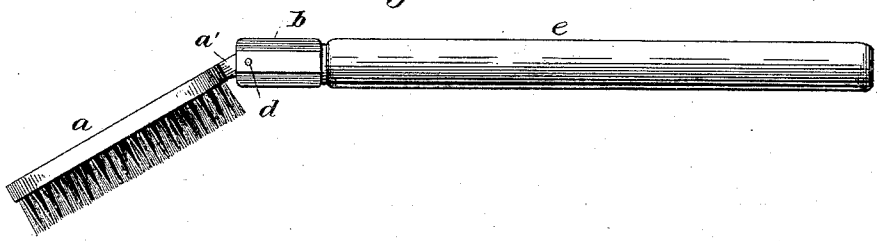


Fig. 3.

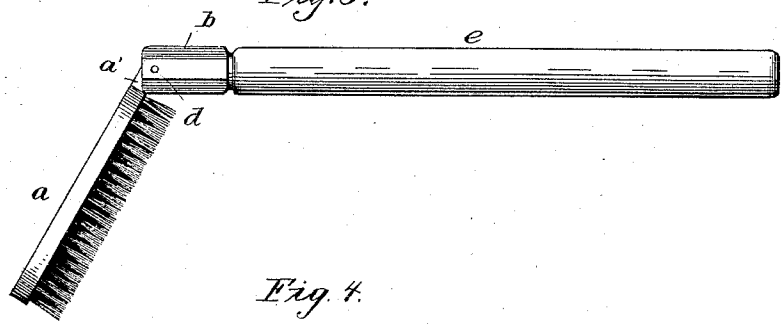


Fig. 4.

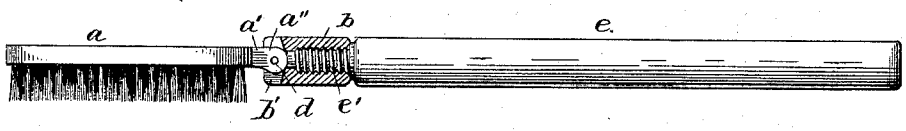


Fig. 5

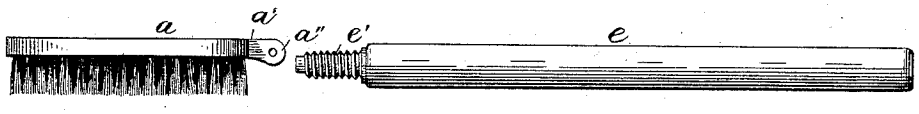
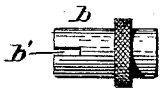


Fig. 6.



Witnesses
Edwin L. Bradford
C. D. Davis

Inventor
Thomas G. Wonderly
By C. M. Alexander
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

THOMAS G. WONDERLY, OF GALENA, ILLINOIS.

TOOTH-BRUSH.

SPECIFICATION forming part of Letters Patent No. 430,909, dated June 24, 1890.

Application filed April 24, 1890. Serial No. 349,296. (No model.)

To all whom it may concern:

Be it known that I, THOMAS G. WONDERLY, a citizen of the United States, residing at Galena, in the county of Jo Daviess and State of Illinois, have invented certain new and useful Improvements in Tooth-Brushes, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figures 1, 2, and 3 represent side views of the improved brush, showing some of the various positions to which it may be adjusted; Fig. 4, partly a side and partly a longitudinal sectional view; Fig. 5, a view of the handle and brush detached, and Fig. 6 a detail view of the screw-threaded sleeve.

The especial object of this invention is to so connect the brush to its handle that it may be readily adjusted and held at different angles with respect to the handle, thereby enabling the user of the brush to reach every exposed portion of his teeth and thoroughly clean the same, especially the posterior portions of the inferior incisors and the exposed surfaces of the wisdom-teeth, which it is impossible to reach with the ordinary straight brush, as will be more fully hereinafter set forth and claimed.

Referring to the annexed drawings by letter, *a* designates the brush, which may be constructed in the usual or any improved manner, and which is provided at its rear end with a metallic arm or bar *a'*, the rear end of this arm being rounded, as at *a''*, and provided with a pin-aperture. The handle *e* is constructed of any suitable material and is provided at its forward end with a screw-extension *e'*. Screwed upon this screw *e'* is an internally-threaded tube or sleeve *b*, and pivoted in a transverse slot *b'* in the forward end of this sleeve is the arm *a'* of the brush. To facilitate the operation of the sleeve its exterior may be provided with a suitable number of flat surfaces, as shown in Figs. 1, 2, and 3, or it may be provided with a milled collar, as shown in Fig. 5. It will be observed that as thus constructed when the sleeve is screwed up upon the screw as far as it will go its forward end bears against the rounded end of the arm *a'*, and thereby holds the brush against movement upon its pivot. When it is desired to adjust the brush to an oblique angle it is simply necessary to turn the sleeve or handle sufficiently to release the arm *a'*, and after the brush is adjusted to the desired angle, it may be secured in said position by turning the brush or handle in the reverse direction, so as to cause the forward end of the screw to bind against the rounded end of the arm *a'*.

The great advantage of this invention is its extreme simplicity of construction and operation, it being so constructed that the user may with a slight movement of his fingers, requiring but a few seconds of time, readily adjust and lock the brush at any angle with respect to the handle that the exigencies of the case may require, thereby enabling him to reach the exposed portions of all those teeth which it is impossible to reach with the ordinary straight brush.

A set of brushes may go with each handle, in order that the handle may not be discarded when a single brush is worn out.

Having thus fully described my invention, what I claim is—

The combination of a handle having projecting from its end a screw, an internally-threaded sleeve working on this screw, this sleeve being provided at its forward end with a transverse slot, and a brush provided with an arm pivoted in the said transverse slot, said arm being provided with a rounded portion *a''*, against which the said screw bears, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS G. WONDERLY.

Witnesses:
THOMAS J. SHEEAN,
JAMES M. SHEEAN.