

L. OSBORN.
TOOTHBRUSH.

APPLICATION FILED MAY 26, 1920.

1 407,214.

Patented Feb. 21, 1922.

Fig. 1.

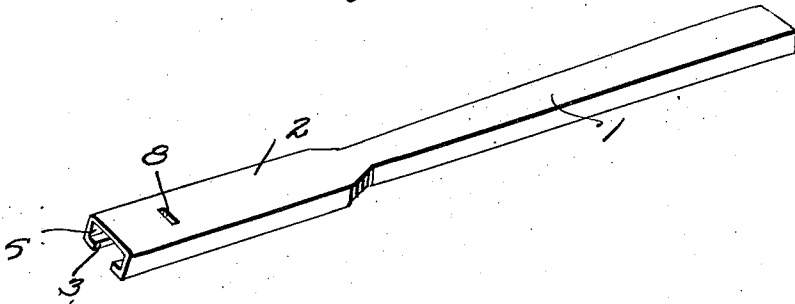


Fig. 2.

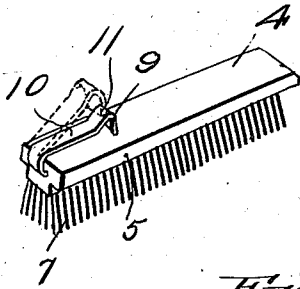
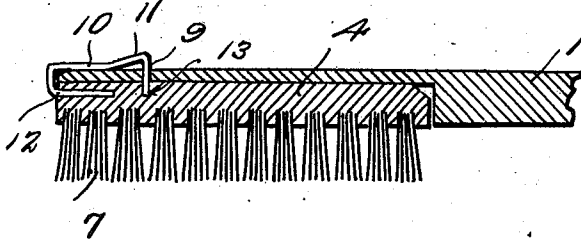


Fig. 3.



Leon Osborn

INVENTOR.

Witness

BY

J. S. McCallahan

Richard B. Owen

ATTORNEY.

UNITED STATES PATENT OFFICE.

LEON OSBORN, OF ZELLWOOD, FLORIDA.

TOOTEBRUSH.

1,407,214.

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To all whom it may concern:

Be it known that I, LEON OSBORN, a citizen of the United States, residing at Zellwood, in the county of Orange and State of Florida, have invented certain new and useful Improvements in Toothbrushes, of which the following is a specification.

This invention relates to tooth brushes and has for its object the production of a simple and efficient detachable brush portion which is removable from the handle in such a manner as to permit the brush portion to be easily released from the handle and in this way permit a new brush portion to be inserted upon the handle should the old brush portion become damaged or otherwise rendered unfit for use.

Another object of this invention is to provide a simple and efficient construction whereby the brush portion may be held in engagement with the handle and may also be readily released therefrom when it is so desired.

Other objects and advantages of the present invention will appear throughout the following specification and claim.

In the drawings:—

Fig. 1 is a perspective view of the handle showing the brush head removed therefrom,

Fig. 2 is a detail perspective of the brush head removed from the handle, and

Figure 3 is a longitudinal section through a portion of the handle and brush head shown in engagement therewith.

Referring to the drawing, it will be seen that 1 designates the handle which is provided with a brush engaging shank 2 at one end thereof. This brush engaging shank 2 is provided upon its longitudinal side edges with inwardly extending flanges 3 forming trackways or ledges upon which the brush head 4 is adapted to slide. This brush head 4 is provided with laterally extending ledge portions 5, which ledge portions are adapted to rest upon the flanges 3 of the shank 2 and be firmly held within the channels 6 formed between the flanges 3 and the body portion of the shank 2. Suitable bristles 7 are carried by the brush head 4 as clearly illustrated in Fig. 2.

The shank 2 of the handle 1 is provided with a transversely extending notch 8 which

notch 8 is adapted to receive the depending lip 9 of the spring latch 10. This spring latch or catch 10 is provided with an upwardly bowed portion 11 from which depends the lip or tongue 9 of the spring catch 10 and this catch 10 is bent to form an inwardly extending hook 12 which fits within the outer end of the brush head 4 as clearly shown in Fig. 3.

In assembling the brush, the brush head 4 is slid within the shank 2 of the handle 1 by resting the ledge portions 5 upon the inwardly extending flanges 3 of the shank 2 and the brush head 4 is then forced longitudinally of the shank 2 until the depending tongue 9 of the spring catch 10 snaps into the transversely extending notch or aperture 8.

By considering Fig. 3 it will be seen that the spring catch 10 has its hooked end 12 snugly fitting within the brush head 4 and is then bent so as to overhang the top of the brush head in such a manner as to cause the tongue or depending lip 9 to snap freely into the aperture or notch 8 in the shank 2. The brush head 4 is also provided with a registering aperture 13 formed in the top of the brush head which aperture is adapted to register with the aperture or notch 8 in the shank 2 and in this way receive the depending end or tongue 9 of the catch 10 and firmly lock the brush head 4 within the shank 2 of the brush.

From the foregoing description, it will be seen that a very simple and efficient means has been provided for holding the brush head within the shank of the handle and at the same time it will also be seen that the brush head may be readily removed from the handle when it is so desired for the purpose of renewing the brush.

It, of course, should be understood that certain detailed mechanical changes may be made in the present invention without departing from the spirit thereof, so long as these changes fall within the scope of the appended claim.

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

A brush of the class described comprising a handle having a shank, said shank pro-

vided with inwardly extending parallel trackways, a brush head slidably mounted upon said trackways and provided with a spring catch adapted to over-hang said shank and having a depending tongue, said shank and brush head provided with registering apertures adapted to receive the tongue of the spring catch whereby said head will be detachably held in engagement with said shank and handle. 10

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

LEON OSBORN.

Witnesses:

W. G. TALTON,
L. C. OSBORN.