

J. F. MOORE.

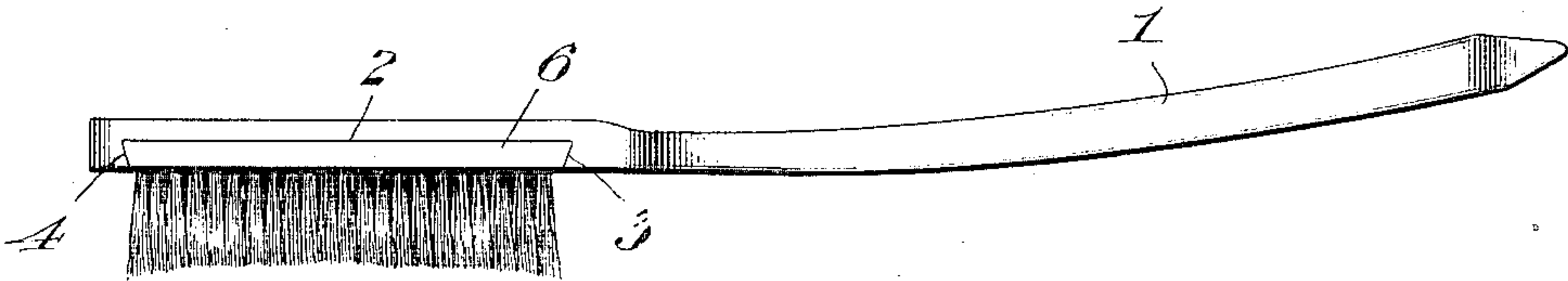
BRUSH.

APPLICATION FILED JAN. 30, 1909.

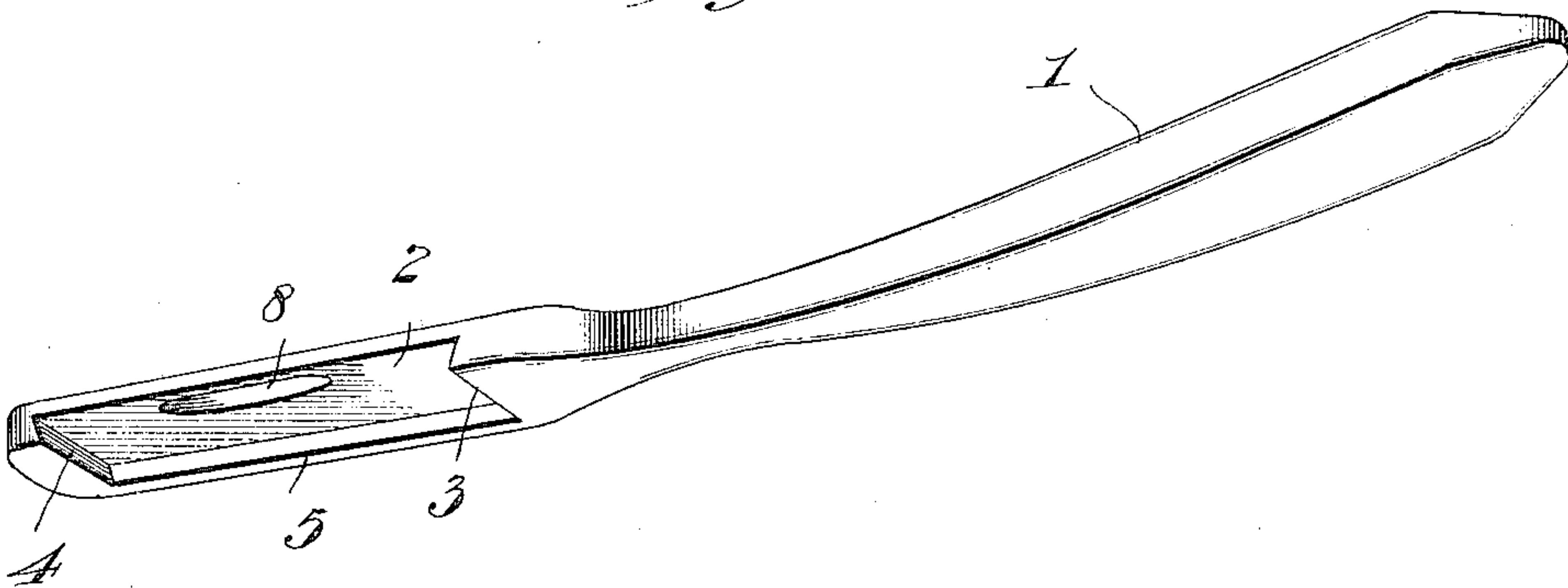
959,574.

Patented May 31, 1910.

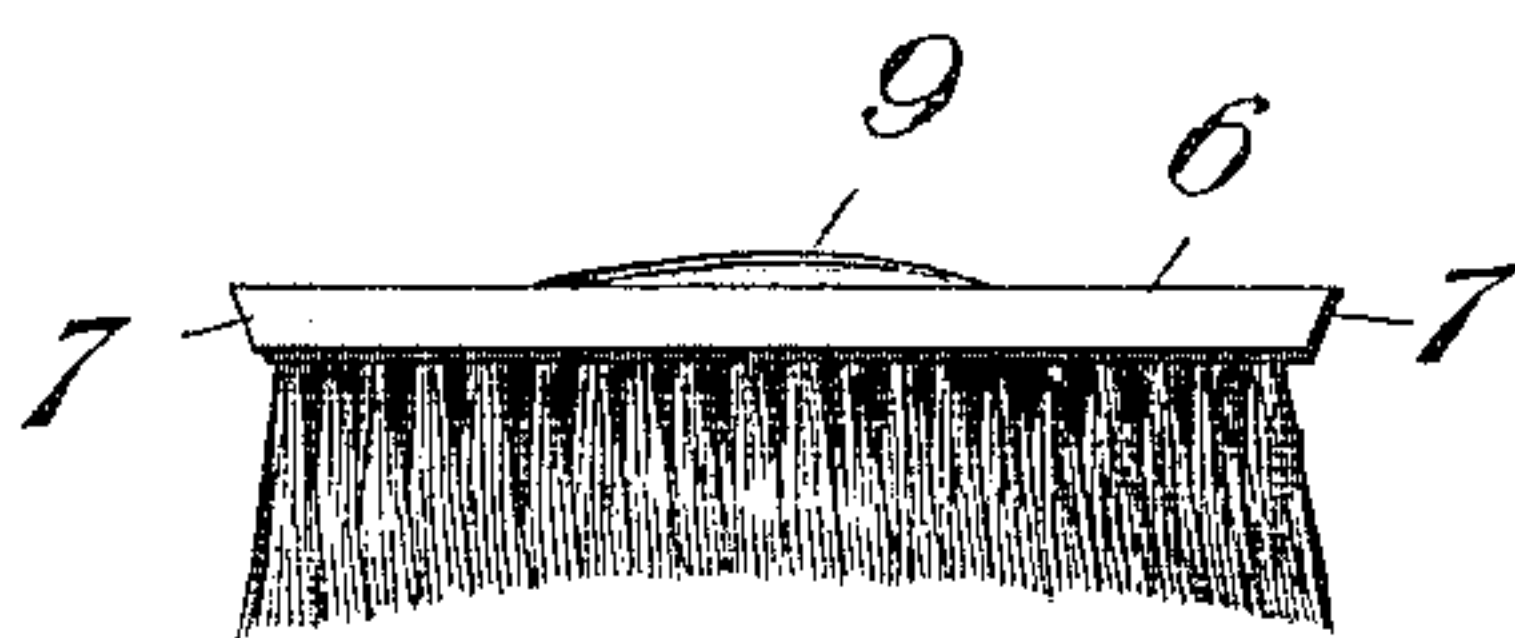
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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## BRUSH.

959,574.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed January 30, 1909. Serial No. 475,168.

*To all whom it may concern:*

Be it known that I, JOSEPH F. MOORE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

This invention relates to brushes.

10 The object of the invention is to provide a brush of such construction that the bristles thereof may readily be removed and others substituted therefor, thereby allowing the use of a number of sets of bristles consecu-

15 tively with one back.  
Further the object of the invention is to provide a brush having the bristles thereof capable of ready removal, and which shall be of such construction as to secure the parts

20 against separation by the strain to which the brush would be subjected when in use.  
With these objects in view the invention consists of a brush having the general and specific features of construction and arrange-

25 ment of parts, substantially as hereinafter described and claimed.  
The invention is illustrated in the accompanying drawing in which I have shown it as applied to a tooth brush, but as will be

30 clear from an understanding of the invention it is equally applicable to hair brushes, clothes brushes and the like.  
In this drawing, Figure 1 is a side elevation of a tooth brush with my invention incorporated therein; Fig. 2 is a perspective

35 view of the handle portion of the brush, the bristle portion being removed therefrom; and Fig. 3 is a side view of the bristle portion of the brush, removed from the handle.  
40 In this drawing 1 represents the handle of the brush, which in the embodiment of the invention shown in the drawing is a tooth brush. The handle may be made of any desired material such as bone, plastic

45 material or metal. As one handle may and is designed to be used with an unlimited number of brushes successively and for an indefinite time, it may be of silver or other costly metal without being expensive in the

50 end.  
The handle as shown is provided near the end at which the bristles are to be placed with a socket 2 formed by the wall 3 ad-

jacent to that part of the handle which is grasped in use, a similar wall 4 at the end 55 of the brush, and a flange 5 extending along one side of the handle. By this construction one side of the socket is left open to allow the introduction and removal of the bristle portion of the brush.

60 The socket may be so formed as to secure the bristle portion therein or it may be provided with supplemental means for the purpose. For instance the inner face of each wall 3 and 4 may be so formed as to incline 65 inward into the socket each forming a slight overhang which will engage the bristle portion and serve to retain the latter in place. The bristle portion of the brush consists of the back 6 to which are attached and from 70 which extend bristles, felt or other material which may be used instead of bristles. The back 6 preferably corresponds in thickness to the length of the walls 3 and 4 and is of a length and width adapting it to fit snugly 75 into and entirely fill the socket in the handle. The ends 7, 7, of the back 6 are of a shape to conform to that of the inner faces of the walls 3 and 4. When the walls are made with this overhang as shown in Fig. 2, the 80 back 7 is beveled as shown in Fig. 3, so that when introduced into the socket the parts will be secured together.

A groove or depression 8 is formed in the bottom of the socket, and the back 6 of the 85 bristle portion is formed with a rib 9. The location of the rib is such that when the bristle portion is in place in the socket the rib will enter the groove or depression. As the bottom of the socket is comparatively 90 thin it will yield as the bristle portion with the rib is forced into place, and will spring back into place when the rib enters the groove and thus by the resiliency of the handle the parts will be held in place against 95 any strain imposed upon it in use. By exerting a slight pressure in the proper direction the bristle portion may be removed and another substituted.

The form of the brush described is such 100 that rigid walls are provided to retain the bristle portion against displacement by force in the direction in which it is applied in the use of the article. Removal of the bristle portion being possible only by appli- 105 cation of pressure in the direction contrary



to that to which it is subjected in use, the accidental separation of the parts is rendered impossible.

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

A brush having a handle provided with a socket having a groove in the bottom thereof, and a bristle portion provided with a

back having a rib adapted to enter the 10 groove and with ends engaging the end walls of the socket, substantially as described.

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

JOSEPH F. MOORE.

Witnesses:

CHRISTIAN S. MACLAIN,  
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