J. SCHMITT.

COMBINATION BRUSH AND COMB.

APPLICATION FILED AUG. 1, 1911.

1,038,793.

Patented Sept. 17, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

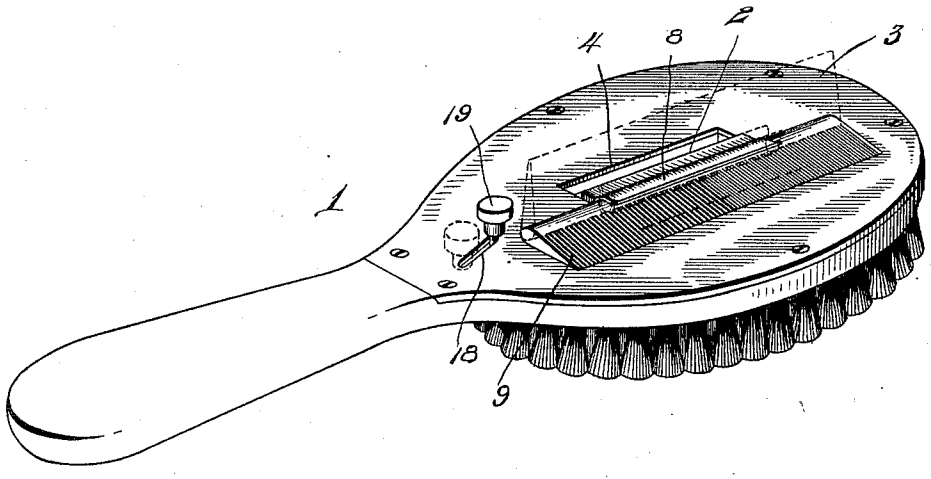


Fig. 2.

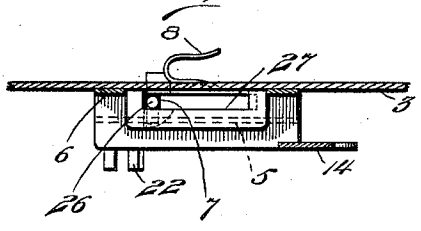


Fig. 3.

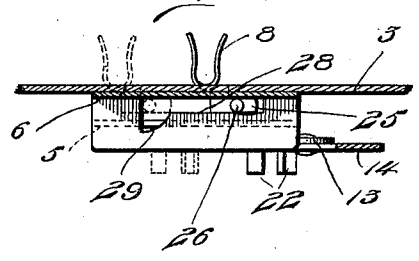
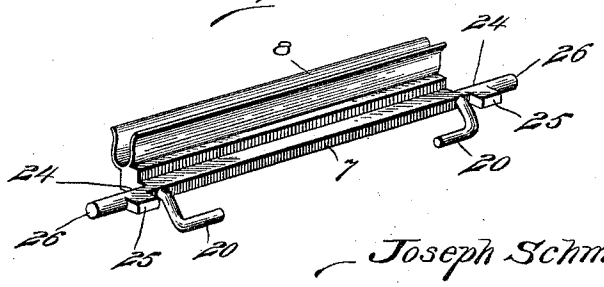


Fig. 7.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

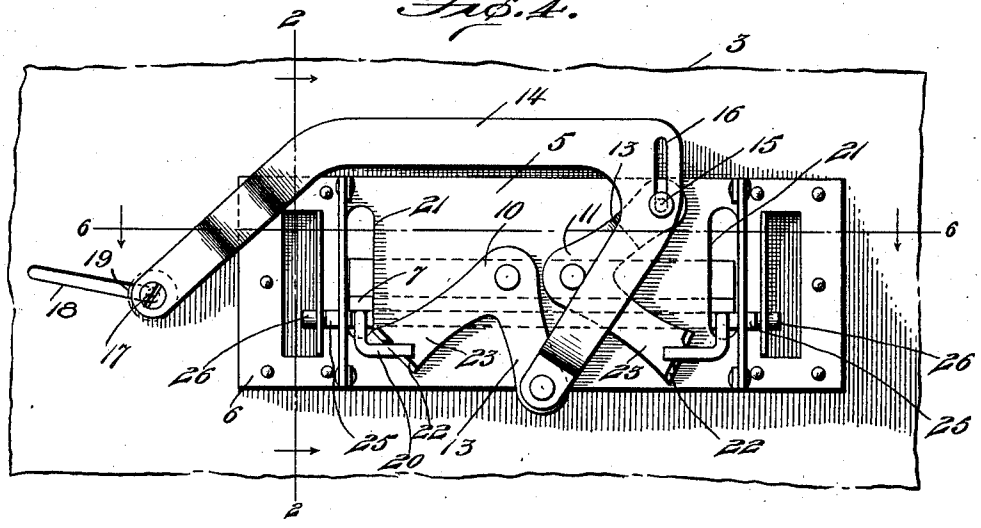


Fig. 5.

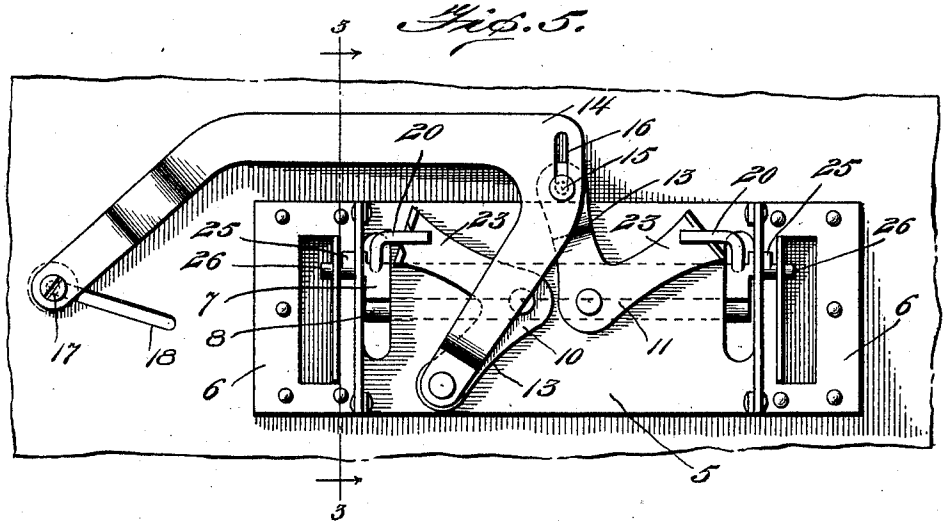
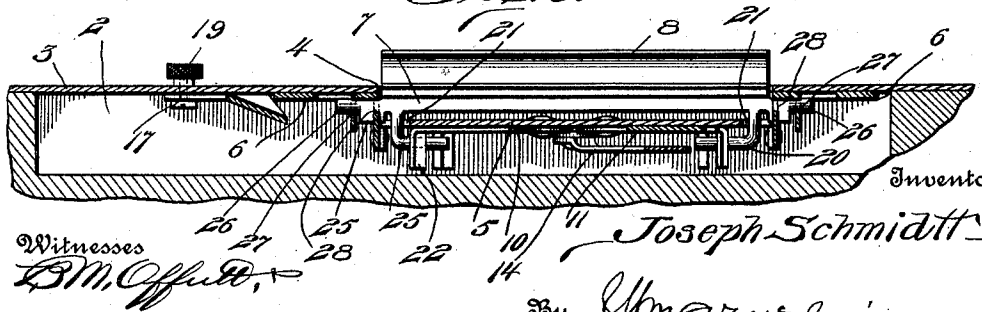


Fig. 6.



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UNITED STATES PATENT OFFICE.

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COMBINATION BRUSH AND COMB.

1,038,793. Specification of Letters Patent. Patented Sept. 17, 1912.

Application filed August 1, 1911. Serial No. 641,831.

To all whom it may concern:

Be it known that I, JOSEPH SCHMITT, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Combination Brushes and Combs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful article of toilet which combines a brush and comb and the features of this invention reside in the means whereby the comb may be placed at right angles to the brush when in use and when not in use will be folded upon the back of the brush.

The invention has for a further object the provision of a combination comb and brush whereby the comb is carried upon the back of the brush and positive means is provided for moving the comb into a position perpendicular to the back of the brush for use and holding it in such position while in use, and means for returning the brush to a position engaging the back of the brush and holding it in said position when not in use.

With these and other objects in view my invention consists of a novel construction, combination, formation and arrangements of parts which will hereinafter be fully described, claimed and more particularly pointed out in the drawings in which:

Figure 1 is a perspective view of a toilet brush showing my improved invention applied; Fig. 2 is a section on the line 2—2 of Fig. 4; Fig. 3 is a section on the line 3—3 of Fig. 5; Fig. 4 is a bottom plan view of the operating mechanism when the comb is raised at a vertical position; Fig. 5 is a similar view showing the position of the mechanism when the comb is folded upon the back; Fig. 6 is a longitudinal section taken on the line 6—6 of Fig. 4, and Fig. 7 is a detailed perspective view of the sliding bar which has secured thereto the comb supporting clip.

Referring to the drawings wherein like and corresponding parts are indicated by like references of characters, the numeral 1 indicates an ordinary toilet brush, having a recess 2 formed in the back thereof and a plate 3 suitably secured thereto to which is secured the comb operating mechanism. This plate 3 has a rectangular opening 4 formed therein and over the recess 2 and a plate 5 is mounted within the recess 2 and spaced apart from the opening 4 in said plate 3 by being secured to one of the flanges of angular plates 6 secured to said plate 3.

Mounted to slide on the surface of the plate 5 is a bar 7 which has secured thereto a U-shaped spring member 8 for holding the comb 9 and it is obvious that when the comb becomes worn or broken it may be removed and readily replaced by another one by inserting it between the spring arms of the member 8.

Pivotally secured to the underside of the plate 5 are bell cranks 10 and 11 each having an offset arm 13. The offset arm 13 of the bell crank 10 is pivotally secured to one end of the operating lever 14 while the offset portion of the bell crank 11 has a lug 15 which engages a slot 16 formed in operating lever 14. The opposite end of the lever 14 has a lug 17 adapted to slide in a diagonal slot 18 formed in the plate 3 and a handle 19 is secured to the same for operating the bell cranks.

Secured to the front edge of the bar 7 are arms 20 adapted to slide in slots 21 formed in the plate 5 and which engage the slotted depending portion 22 formed on the opposite arms 23 of the bell cranks 10 and 11.

Extending from the ends of the bar 7 are lugs 24 each of which has an enlarged portion 25 and a reduced portion 26, the latter portion being adapted to slide in an elongated slot 27 formed in a depending portion of the members 6 thereby forming a guide for the bar 7 when sliding along the plate 5.

The enlarged portions 25 are adapted to slide in the elongated slots 28 formed in arms of the angular plates 6 and an arc-shaped recess 29 is formed at one end of each of the slots 28 whereby the enlarged portions 25 when sliding in the slots 28 will keep the bar 7 in a horizontal plane but when they reach the recesses 29 the bar will be turned at right angles to its former position.

It is obvious from the foregoing that when a comb is placed in the spring-retaining member 8 and turned at right angles to the brush the comb is ready for use, but when comb is not in use the same may be folded upon the back of the brush by pushing on the handle 19 which will operate the bell cranks through the operating lever 14 thereby causing the bar 7 to slide to one side of

the opening formed in the plate 3 and upon pushing the handle farther the enlarged portions 25 will engage the recesses 29 thereby turning the bar 7 which in turn will cause the comb to lie within the recess formed in the brush.

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

1. In a device such as described, a brush having a recess formed therein, a plate secured to said brush having an opening registering with said recess, a second plate mounted in said recess and spaced from said first-mentioned plate, a comb-retaining member adapted to slide on said second plate and means for operating said comb retaining member, substantially as described.

2. In a combination with a brush having a recess formed therein, a plate secured to said brush, having an opening formed therein, a second plate mounted in said recess and spaced from said opening by means of angle plates, a comb-retaining member adapted to slide on said second plate, arms extending from said comb retaining member, bell cranks pivoted to the lower side of the said second plate, said arms engaging said bell cranks, a lever for operating said bell cranks, means for operating said lever, lugs extending from said comb retaining member adapted to slide in slots formed in said angle plates and enlarged portions formed on said lugs for engaging recesses formed at the ends of said slots to cause the comb retaining member to assume a vertical position.

3. The combination with a brush, having a recess formed in the back thereof, a comb pivotally mounted adjacent to said recess, a plate mounted over said recess, bearings formed on said plate, a bar slidably mounted upon said bearings, and means to reciprocate said bar.

4. The combination with a brush, having a recess formed in the back thereof, a comb pivotally mounted adjacent to said recess, a plate mounted over said recess, bearings formed on said plate, a bar slidably mounted upon said bearings, a lever mounted on the under side of said plate, bell cranks adapted to be oscillated by said lever, and connections between said lever and said bar.

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

JOSEPH SCHMITT.

Witnesses:
J. F. CONROY,
J. C. STRUD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."