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O. P. SMITH

TOILET SET

Filed May 12, 1927

Fig. 1.

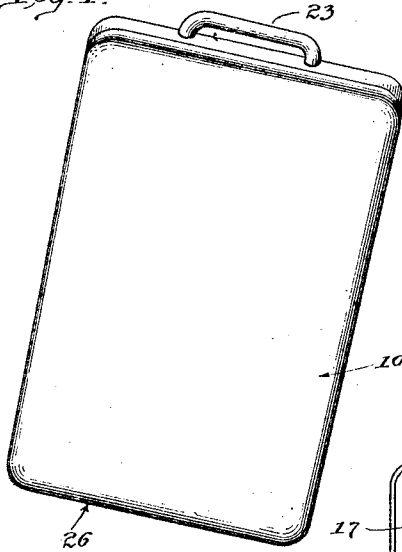


Fig. 2.

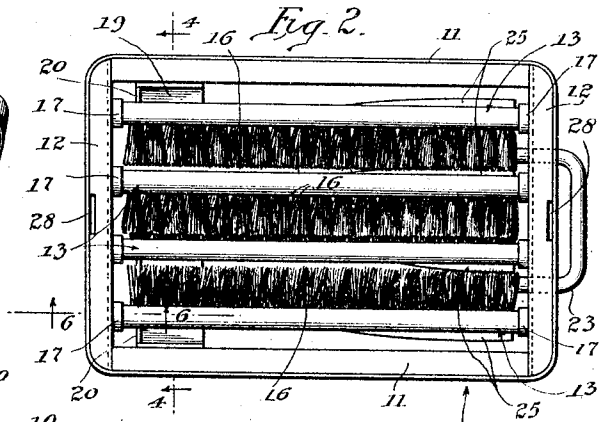


Fig. 3.

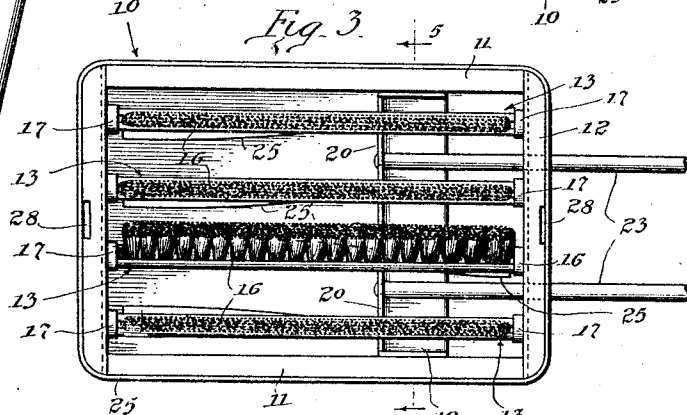


Fig. 4.

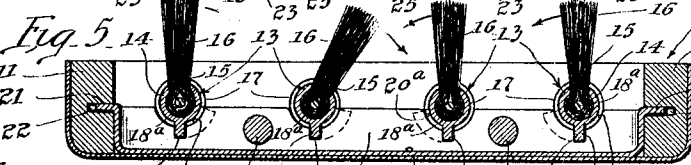
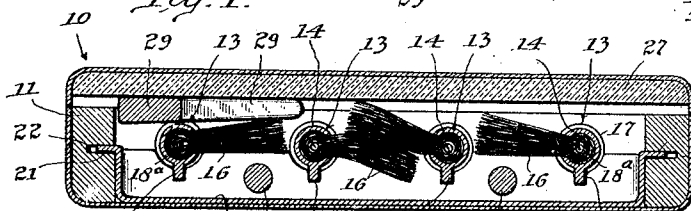


Fig. 6.

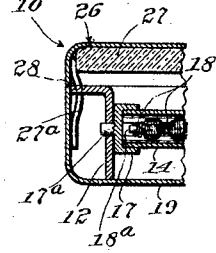
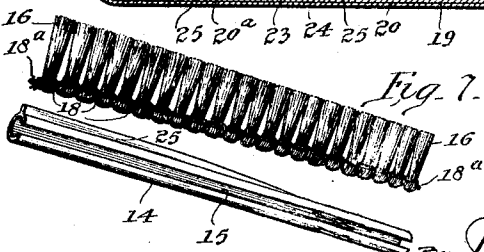


Fig. 7.



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# UNITED STATES PATENT OFFICE.

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## TOILET SET.

Application filed May 12, 1927. Serial No. 190,750.

This invention relates to a toilet set and has special reference to a toilet set which is attractive in appearance, compact in form, and may be conveniently carried around in the pocket of an individual's wearing apparel.

More particularly, this invention relates to a pocket toilet set including a plurality of pivotally mounted brush sections, a mirror and a comb, which latter elements are normally enclosed in a thin light weight casing. When it is desired to use the device, the comb and mirror are removed therefrom and the brush sections are pivoted to project outside of the casing.

The casing of the present invention is preferably rectangular in shape and comparatively thin, the brush sections extending longitudinally therein. In the particular form illustrated in the drawings, the brush sections are actuated by means of an extension which is normally enclosed by the casing. When the extension is drawn outwardly from the casing, it acts as a handle for the device and pivots the brush members at right angles to the direction of pull and to an operative position whereby the latter members project from the casing.

One of the objects of this invention is to provide a thin, light weight toilet set of a type which is particularly adapted to be used by gentlemen and to be carried in the pocket of their wearing apparel.

Another object of this invention is to provide a compact pocket toilet set which may be ornamental, simple in operation and durable.

Further objects and advantages of this invention will be apparent from the description and drawings forming a part of this specification to which latter reference may now be had for a more complete understanding of the characteristic features of this invention, in which drawings:

Figure 1 is a perspective view of the toilet set in its normally closed condition;

Fig. 2 is a plan elevational view of Fig. 1 showing the cover removed therefrom;

Fig. 3 is a view similar to Fig. 2 showing the device in a condition ready for use;

Fig. 4 is a sectional view taken on the line 4-4 of Fig. 2;

Fig. 5 is a sectional view taken on the line 5-5 of Fig. 3;

Fig. 6 is a fragmentary detail sectional view of the supporting end of the device; and

Fig. 7 is an exploded view of one of the brush sections.

Referring now particularly to the drawings, a casing 10 is shown comprising a rectangular frame work preferably comprising a pair of longitudinally extending supporting members 11, which may be cast or formed of bars of a light weight metal such as aluminum. A pair of laterally extending inverted L-shaped members 12 are secured to the ends of the members 11. The frame work is enclosed on the side and bottom thereof by means of a thin sheet of metal such as sterling silver, gold, nickel, etc., the particular material used depending upon the quality of the device sought by the purchaser.

A plurality of brush sections 13 are equidistantly disposed within the casing 10, each of which sections comprises a tubular member 14 having a longitudinally extending slot 15 therein and being enclosed on each end thereof by means of caps 17. The caps 17 have bearing portions 17<sup>a</sup> extending therefrom for pivotal engagement with the inverted L-shaped members 12. An assembly of tufts of bristles are secured in the tubular member 14 and extend through the slot 15 provided therein, the bristles extending a distance such that they may normally rest between the tubular members.

The assembly of tufts of bristles is clearly shown in Fig. 7 of the drawing, each tuft comprising a group of bristles 16 extending around a core 18<sup>a</sup> and held in a fixed relation with said core by means of a wire 18, the wire 18 continuing on to fasten the adjacent tufts to the core 18<sup>a</sup>. When it is desired to assemble the group of tufts to the tubular member 14, the end caps 16 are removed therefrom and the lower core portion of the tufts is inserted into one end of the tubular member 14 and is moved therethrough until the entire length is occupied by the bristles. The bristles, of course, extend through the slots 15, the core portion thereof being secured to the tubular

portion 14 by reason of the slot 15 being smaller than the lower rounded end portion of the bristle assembly.

A plate 19 is disposed at the bottom of the casing and is provided with an upwardly extending flange 20 extending laterally of the casing. A longitudinally extending tongue member 21 is provided on each side of the plate for engagement with grooves 22 which latter extend the entire length of the frame member 11. An extension 23, preferably U-shaped, is secured to the plate 19 at its outer ends in order to have a direct pull on each end of the plate 19, thereby eliminating any wedging action that the plate might have with reference to the grooves in which it rides. This extension 23 is normally enclosed in the casing 10, the arms of the U-shaped member extending a short distance through the casing so that it may be readily grasped when it is desired to use the device.

The flange 20 extends upwardly to a point substantially central of the tubular member 14 and is provided with recessed portions 20<sup>a</sup> for permitting the tubular members to extend therethrough. At the lower end of each of the recessed portions is a guide-way 24 for engaging a spiral tongue member 25 secured to the tubular portion 14 or, as shown in the drawings, integral therewith. When it is desired to pivot the tubular portion 14, the plate 19, and therefore the flange 20, is moved in one direction whereby the spiral tongue 25 will engage the groove 24 to act as a cam. By referring to Fig. 1, when the plate 19 occupies a position substantially at the end of the casing 10 on the left hand side, the spiral tongue 25 holds the brush members in a substantially horizontal position as is shown particularly in Fig. 4. Upon moving the plate member 19 as by means of pulling the extension 23 outwardly from the casing, the spiral tongue members 25 pivot the tubular members 14 so that when the handle is in a full outward position, the bristles are disposed substantially vertical with the casing and extend a substantial distance out of said casing.

The position as shown in Fig. 3 illustrates the plate 20 in an initial movement to pivot the brush members back to their horizontal position in the casing. As shown in Fig. 5, one of the central brush members is permitted to pivot before the remaining brush members receive their initial actuation. The reason for this is apparent since the two central brush members are pivoted toward each other; and therefore, they must clear each other when actuated into their changed positions. The remaining brush members are pivoted inwardly in order to minimize the amount of space required to house these members which reduces the width of the casing to a minimum.

The top side of the casing is suitably enclosed by means of the cover 26 which contains a mirror 27 on the inner side thereof. The cover 26 is made of a sheet of material to correspond with the material of the casing and is held in position on the casing by some suitable means such as a lug 27<sup>a</sup> engaging the edge of an aperture 28 in the end frame members 12 through which the lug extends. This form of securing means is very clearly illustrated in Fig. 6 of the drawings. A comb 29 is loosely disposed in the casing and is preferably supported on one of the tubular supports 14 and the bristles thereof.

In the use of this device, the cover 26 is removed and the comb 29 is removed from the casing. The extension 23 is then pulled outwardly to pivot the brush members to an operative position whereby the latter project out of the casing and the extension 23 is used as a handle for holding the device. It will be particularly noted that by pulling the handle outwardly to pivot the brush members, the latter operate at right angles to the direction of pull in order to obtain a correct position for brushing whereby the rows of brush sections extend longitudinally of the casing and co-extensively with the handle when extended.

While but a single embodiment of this invention is hereby shown and described, it is to be understood that the same is not to be limited to that specific structure since various modifications may occur to those skilled in the art without departing from the spirit and scope of this invention, and it is therefore desired that the same be limited only by the showing of the prior art and the scope of the appended claims.

I claim:

1. In a device of the character described, a casing, a brush member normally enclosed in said casing, and an extension for actuating said brush member and normally substantially enclosed in said casing, said extension being slidably mounted to extend out of said casing thereby affording a handle for said device and actuating said brush member to a position such that it projects out of said casing.

2. In a device of the character described, a casing, a plurality of brush members pivotally mounted in said casing and normally enclosed therein, and an extension for actuating said brush members and normally substantially enclosed in said casing, said extension being slidably mounted to extend out of said casing thereby affording a handle for said device and pivoting said brush members to a position such that they project out of said casing to an operable position.

3. In a device of the character described, a casing, a plurality of brush members normally lying in a substantially horizontal po-

sition and pivotally mounted in said casing, and an extension for actuating said brush members and normally substantially enclosed in said casing, said extension being slidably mounted to extend out of said casing thereby affording a handle for said device and pivoting said brush members to a position such that they project out of said casing at substantially right angles thereto.

4. In a device of the character described, a casing, a plurality of brush members pivotally mounted in said casing and normally enclosed therein, a plate slidably mounted in said casing for actuating said brush members and an extension secured to said plate and normally substantially enclosed in said casing, said extension being adapted to be used as a handle for said device and to pivot said brush members to project out of said casing into an operable position when said extension and said plate are moved from their normal positions.

5. In a device of the character described, a casing, a plurality of brush members pivotally mounted in said casing and normally enclosed therein, a plate member slidably mounted in said casing, cam means on said brush members for coacting with said plate to actuate said brush members, and an extension secured to said plate and normally substantially enclosed in said casing, said extension being adapted to be used as a handle for said device and to pivot said brush members to project out of said casing when said extension and said plate are moved from their normal positions.

6. In a device of the character described, a casing, a plurality of brush sections comprising a pivotally mounted supporting member having bristles extending therefrom, said bristles normally lying in a substantially horizontal position within said casing, and an extension for actuating said brush sections and normally substantially enclosed in said casing, said extension being slidably mounted to extend out of said casing thereby affording a handle for said device and pivoting said brush sections so that said bristles project out of said casing.

7. In a device of the character described, a casing, a plurality of brush sections comprising a pivotally mounted tubular portion having a longitudinally extending slot therein for receiving an assembly of tufts of bristles, said tufts being normally enclosed in said casing, and an extension for actuating said brush sections and normally substantially enclosed in said casing, said extension being slidably mounted to extend out of said casing thereby affording a handle for said device and pivoting said brush sections so that said tufts project out of said casing.

8. In a device of the character described, a casing, a plurality of pivotally mounted

tubular supporting members having brush members projecting therefrom and normally enclosed in said casing, a spiral tongue member formed on said tubular supporting member, and a plate slidably mounted in said casing and having slots therein for engagement with said tongue members to pivot said brush members to extend out of said casing.

9. In a device of the character described, a casing, a plurality of brush sections pivotally mounted in said casing, and means for actuating said brush sections inwardly from the outer edges of said casing, said means actuating one of said brush sections before the others of said brush sections are actuated.

10. In a device of the character described, a casing, a plurality of pivotally mounted tubular supporting members having brush members projecting therefrom and normally enclosed in said casing, a spiral tongue member formed on said tubular supporting member, and a plate slidably mounted in said casing and having slots therein for engagement with said tongue members to pivot said brush members to extend out of said casing, one pair of said brush members being adapted to pivot toward each other, one of said pair being actuated before the other of said pair is actuated.

11. A casing for a toilet set including a comb and a mirror having a plurality of brush sections incased therein, means for actuating said brush sections to project out of said casing comprising a slidably mounted plate member having a plurality of slots therein for engagement with spiral tongue members on said brush sections.

12. A casing for a toilet set including a comb and a mirror having a plurality of longitudinally extending brush sections incased therein, means for actuating said brush sections to project out of said casing comprising a slidably mounted plate member having a handle secured thereto and normally enclosed in said casing, said plate member having a plurality of slots therein for engagement with a spiral tongue member on said brush sections.

13. In a device of the character described, a casing, a plurality of brush members pivotally mounted in said casing and normally enclosed therein, and means for operating said brush members, said means being actuated in a direction at right angles to the path of movement of said brush members.

14. In a device of the character described, a substantially rectangularly shaped casing, a plurality of brush members pivotally mounted in said casing and extending longitudinally thereof, said members being normally enclosed in said casing, and means in said casing coextensive with said brush members for pivoting said brush members at

right angles thereto to extend out of said casing.

15. In a device of the character described, a casing, a plurality of brush members pivotally mounted in said casing and normally enclosed therein, and means normally substantially enclosed in said casing and coex-

tensive with said brush members for pivoting said brush members at right angles thereto which when extended out of said casing serves to act as a handle for said device.

In witness whereof, I have hereunto subscribed my name.

OLIVER P. SMITH.