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SHAVING BRUSH AND SOAP OUTFIT

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The present invention relates to shaving soap and brush outfits and is more particularly directed toward a shaving accessory of this nature which can be readily carried in the vest pocket.

The present invention contemplates a small compact outfit provided with a shaving brush and a soap cartridge and so arranged that the brush and cartridge may be inclosed when the article is to be carried and also so arranged that one may obtain the necessary soap for shaving and readily apply the brush to the face.

An object of the present invention is to provide a shaving article of the above type in which the shaving brush is carried inside a removable cap placed at one end of the device while the soap is carried inside a tubular sleeve open at the other end of the device and is accessible through the open end of the tubular sleeve.

A further object of the present invention is to provide a removable soap cartridge preferably carried directly in the sleeve and so arranged that the user may force the soap outwardly as desired.

Other and further objects of the invention will appear as the description proceeds.

The accompanying drawings show, for purposes of illustrating the invention, four of the many possible embodiments in which the invention may take form, it being understood that the drawings are illustrative of the invention rather than limiting the same.

In these drawings:
- Figure 1 is an elevational view of the combined shaving brush and soap outfit;
- Figure 2 is a longitudinal sectional view through one form of device;
- Figure 3 is an elevational view of a form of soap cartridge used in the device of Figure 2;
- Figure 4 is an elevational view of a coupling ring;
- Figure 5 is an elevational view of the brush unit and supporting base;
- Figure 6 is an elevational view of the tubular sleeve;
- Figure 7 is a sectional view through a modified form of construction;
- Figure 8 is a section taken on the line 8—8 of Figure 7;
- Figure 9 is a fragmentary sectional view of a modified form of construction;
- Figure 10 is an elevational view with parts in section of a modified form of construction;
- Figure 11 is an enlarged sectional view of the left end of the device illustrated in Figure 10, showing it adapted for using a stick of soap;
- Figure 12 is a view similar to Figure 11 showing a still further modification adapted for using the tube of shaving cream;
- Figure 13 is an elevational view with parts in section showing the soap cartridge of Figure 12;
- Figure 14 is a transverse sectional view along the line 14—14 of Figure 12; and
- Figure 15 is an enlarged view of a detail.

As shown in Figure 1, the device 10 is in the form of a small cylindrical article which may be readily carried in the vest pocket. The device may be ornamented in any desired manner such as, for example, by the flutes 11 and the knurled portions 12 and 13. Other forms of ornament may of course be applied if desired.

According to the form of construction shown in Figures 2 to 6, inclusive, a sleeve 14 carrying the flutes 11 is internally threaded at its ends as indicated at 15 and 16. A coupling ring 17 is threaded into one end of the tubular sleeve 14. This ring preferably carries the knurled portion 13 above referred to. This ring 17 preferably has a short tubular portion 18 which extends beyond the knurled portion 13, and a cap 19 is removably carried on this tubular extension 18 of the ring 17. As here shown, the cap preferably has a friction fit with the ring, but it is of course obvious that the parts may be threaded together if desired.

A shaving brush 20 composed of bristles 21 and a metal base 22 is made of the proper size to be carried inside the cap 19. The metal base has a reduced threaded portion 23 which may fit into threads 24 provided in the inside of the coupling ring 17. The larger diameter portion of the base is preferably knurled as indicated at 25 so as to facilitate threading the base into the ring. As shown in the drawing, however, the brush unit has been removed from the ring and reversed end for end and inserted into the cap 19. It is preferable to carry the brush in this manner as it is easy to insert the metal base of the brush into the cap and then push the entire brush unit into the cap, the bristles sliding into the cap without interference.
The form of soap cartridge, shown more in detail in Figures 2 and 3, has a cylindrical stick of shaving soap 26 carried inside a plug member 27 threaded at 28 to cooperate with the threads 16 in the tubular sleeve 14. This plug member may carry a knurled end as indicated at 12.

When one desires to use the article illustrated in Figure 2, the plug 27 and soap 26 may be removed and applied to the face in an obvious manner. The cap 19 is removed from the coupling ring and given a quick movement to loosen the brush unit which may then be removed from the cap and threaded into the coupling ring. The coupling ring and sleeve 14 act as a handle for the shaving brush.

In the embodiment of the invention illustrated in Figures 7 and 8, the coupling ring 17, cap 19 and brush unit 20 are illustrated as being made up in the same manner as shown in detail in Figures 2, 4 and 5. According to the construction here shown, however, the sleeve 30 is provided with a reduced end portion 31 onto which a cap 32 may be placed, this cap preferably having a friction fit with the sleeve although of course it is obvious that the parts may be threaded together if desired. In the present construction, a cylindrical stick of soap 33 is provided of a size to tightly fit the inside of the tubular sleeve 30. A spider spring 34 is carried at the end of the stick of soap, it being held in place by an anchor 35 embedded in the soap. The spider spring has a number of arms 36 which are adapted to flex as indicated in Figure 7 and securely engage the inner walls 37 of the tubular sleeve 31. When one desires to obtain soap from the device illustrated in Figures 7 and 8, the cap 32 may be removed and the soap cartridge pushed outwardly by inserting the finger through the coupling 30 to push against the spider spring 34. This spring permits the soap to be pushed out of the left end of the sleeve 31, but anchors the soap securely against its being pushed back into the tube. This is on account of the engagement of the ends of the arms 36 of the spring washer with the inner surface of the tube 51. If one should accidently push the soap cartridge so far that the cap 32 could not be replaced, it is of course obvious that the cartridge could be pushed all the way out of the tubular member 31 and again inserted from the other end. When inserting the cartridge it is of course obvious that the coupling ring 20 would be unthreaded from the tubular sleeve 31.

Figure 9 illustrates a slight modification according to which the bar of soap 33" is carried in a sleeve 33' which will fit the outer sleeve 31. The spider spring 34' engages the inner wall of the sleeve 33' and functions as in Figure 7.

The form of device shown in Figure 10 may utilize the same form of cap 19 and brush unit 20 which has heretofore been described in detail. As shown in Figure 11, the tubular sleeve 40 is externally threaded at 41 to receive the coupling member 42 having a projecting end 43 onto which the cap 19 is passed. As here shown, these parts are threaded together at 44. The coupling member is internally threaded as indicated at 45 to receive the threaded base 25 of the brush unit. The tubular sleeve 41 is internally threaded substantially its entire length as indicated at 45 and a traveling nut 47 is carried in these threads. This nut is in the form of a ring having a pair of pins 48, here shown as screws, which pass inwardly through slots 49 and 50 in an inner sleeve 51. The right hand end of this inner sleeve is flanged at 52 to abut against the coupling ring 42, while the other end of the sleeve 51 passes through a collar 53, which is threaded into the outer sleeve 40 as indicated. A cap 54 is threaded onto a coupling ring 55 and adapted to cover the left end of the inner sleeve 51. A plug 55 is carried by the pins 48 inside the inner sleeve 51 and a stick of soap 56 is placed in the tube 51.

When it is desired to move the soap 56 out of the inner tube 51 of Figure 11, it is only necessary to remove the cap 54 and take hold of the exposed end of the tube 51 and turn it in the proper direction relative to the outer sheath or tube 40. The relative motion of these parts will cause the traveling nut 47 to move along the threads 46 and will carry the plug 55 along with it, thereby forcing the soap outwardly.

The form of construction shown in Figures 12 to 15, is in general, similar to the construction shown in Figure 11, and so far as possible the same reference characters are applied. In this case, the threads 57 on the exposed end of the inner tube 51 receive an inner cap 58. According to this form of construction a soap cartridge 59 in the form of a tube of shaving cream is inserted into the inner tube 51. This tube has comparatively thin side walls and a tubular discharge opening 60 which passes through a hole in the inner cap 58. A plug 61 is carried on the screws or pins 48. This plug fits the inner wall of the soap cartridge 59. A sharp blade 62, such as a razor blade, is mounted in the plug 60 by clamping screws 63.

When one desires to obtain a supply of shaving cream from the device shown in Figure 12 the cap 54 is removed and the inner sleeve 51 turned as above described, thereby causing the plug 61 to advance along the inside of the tube. The sharp edge of the cutting blade 62 engages the soft metal of which the tube is made and slits it permitting the screws and blade to pass lengthwise of the tube as the soap is consumed.
Instead of using a stick of soap or a tube of shaving cream, in the devices, it is obvious that one may use soap powder in a sifter top box. While the devices may be made of a size suitable to be carried in the vest pocket, it is obvious that larger sizes may be made to accommodate a standard stick of shaving soap or tube of cream. The supply of soap may be readily replenished when necessary. All the metal parts may be made of aluminum so as to be light in weight and susceptible of high polish, or they may be made of brass and plated if desired.

It is obvious that the invention may be embodied in many forms and constructions, and I wish it to be understood that the particular forms shown are but a few of the many forms. Various modifications and changes being possible, I do not limit myself in any way with respect thereto.

What is claimed is:

1. In combination, a tubular sleeve, a ring at one end of the sleeve, a cap removably carried by the ring, a shaving brush having a base, the ring having a hole into which the base of the shaving brush is insertible, and a cone cartridge removably carried in the sleeve, the soap being accessible through the other end of the sleeve, the sleeve and ring acting as a handle for the shaving brush.

2. In combination, a tubular sleeve, a ring at one end of the sleeve, a cap removably carried by the ring, a shaving brush having a base, the ring having a hole into which the base of the shaving brush is insertible, the shaving brush and base being reversible and insertible into the cap to bring the base of the brush against the end of the cap, and a cone cartridge removably carried in the sleeve, the soap being accessible through the other end of the sleeve, the sleeve and ring acting as a handle for the shaving brush when the brush is mounted in the ring.

3. In combination, a tubular sleeve, a ring threaded to one end of the sleeve, a cap removably carried by the ring, a shaving brush having a base, the ring having a threaded hole into which the base of the brush may be threaded, and a cone cartridge removably carried in the sleeve, the soap being accessible through the other end of the sleeve, the sleeve and ring acting as a handle for the shaving brush when the brush is mounted in the ring.

4. In a shaving brush, in combination, a tubular sleeve, a ring threaded to one end of the sleeve, a cap frictionally carried by the exposed portion of the ring, the cap, ring and sleeve being of substantially the same diameter, the ring being interiorly threaded, a brush having a metal base having a reduced threaded portion to fit the ring, the ring and sleeve acting as a handle for the brush, the brush and ring when unthreaded being insertible into the cap.

5. In a shaving outfit, a tubular metallic sleeve, a shaving brush removably carried at one end of the sleeve, and a cone cartridge housed in the sleeve, the cone cartridge having a spider spring engageable with the inner wall of the sleeve and permitting movement of the cartridge through the sleeve in one direction only.

6. In combination, a tubular sleeve, a ring at one end of the sleeve, a cap removably carried by the ring, a shaving brush having a base, the ring having a hole into which the base of the shaving brush is insertible, and a cone cartridge housed in the sleeve, the cone cartridge having a spider spring engageable with the inner wall of the sleeve and permitting movement of the cartridge through the sleeve in one direction only.

7. In a shaving outfit, a tubular metallic sleeve, a coupling member threaded to the sleeve at one end, a shaving brush threaded into the coupling member, a cone cartridge insertible into the sleeve when the coupling member is removed, and a device carried by the cone cartridge for preventing backward movement of the cone cartridge after it is inserted, said device permitting forcing the cone cartridge out through the other end of the sleeve.

8. In a shaving outfit, a tubular metallic sleeve, a coupling member threaded to the sleeve, at one end a shaving brush threaded into the coupling member, a cone cartridge insertible into the sleeve when the coupling member is removed, a device carried by the cone cartridge for preventing backward movement of the cone cartridge after it is inserted, said device permitting forcing the cone cartridge out through the other end of the sleeve, a cap covering the exposed end of the cone cartridge, and a cap to receive the brush.

9. A cone cartridge for shaving outfits comprising a stick of shaving soap and a spider spring anchored in one end of the bar of soap, the ends of the spring normally projecting beyond the walls of the stick of soap.

10. In a shaving outfit, a tubular metallic sleeve, a stick of shaving soap fitting the sleeve, and a spider spring carried by an end of the stick of soap and engageable with the inside walls of the sleeve, the spring permitting movement of the soap in one direction only.

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