Sept. 26, 1967 B. E. COX ETAL 3,343,201

SHAVING BRUSH

Filed April 12, 1965

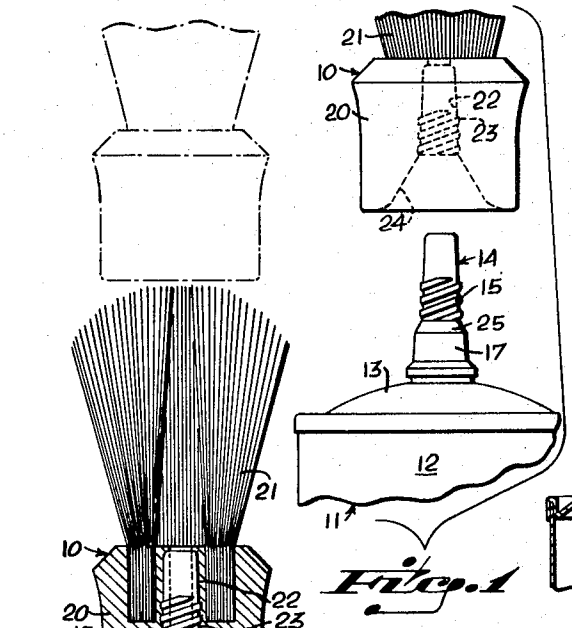

Fig. 1

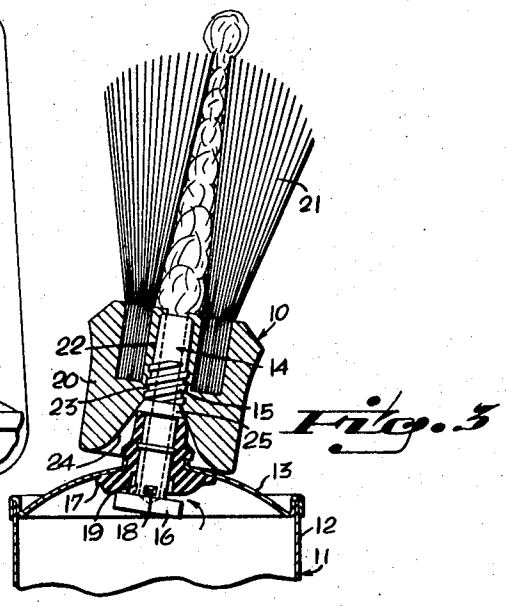

Fig. 3

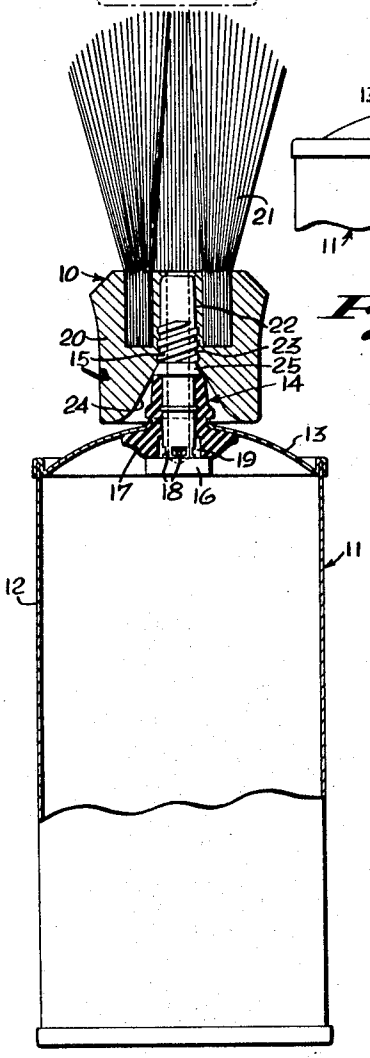

Fig. 2

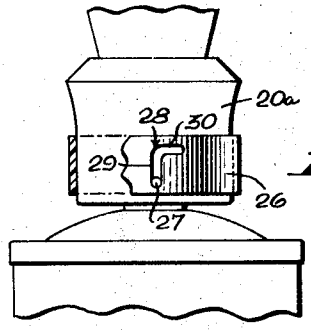

Fig. 4

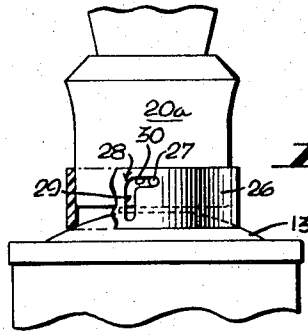

Fig. 5

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SHAVING BRUSH

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ABSTRACT OF THE DISCLOSURE

A shaving brush removably attachable to a pressure-actuated lather dispensing container for use either independently as an ordinary shaving brush or in conjunction with a pressurized dispensing can for automatically feeding lather directly to the tip of the brush as needed in shaving and including selectively operable means for preventing displacement of the brush with respect to the lather-dispensing can when attached thereto for use of the container as a handle.

Our invention relates generally to shaving brushes and is directed particularly to a shaving brush for use in conjunction with pressure-actuated soap lather dispensing cans for supplying lather directly to the tip of the brush as needed in shaving.

Shaving brushes combined with dispensing means operative to apply soap or lather directly to the brush to simplify lathering and at the same time avoid wetting or soaping the hands, are known. Such combinations as have heretofore been devised, however, are of such unitary construction that the brush cannot be removed from the lather dispensing container for independent use, and are further deficient with respect to the complexity of their actuating mechanism for dispensing the lather to the brush.

It is accordingly the principal object of our invention to provide a shaving brush that will be removably attachable to a lather dispensing container for use either independently, as an ordinary shaving brush, or in conjunction with a pressurized dispensing can for automatically feeding lather directly to the tip of the brush as needed in shaving.

It is another object to provide a shaving brush of the character described for use with pressurized lather dispensing cans of the type having a dispensing nozzle perpendicularly disposed at one end of the can and yieldably attached at its base for universal rocking motion with respect thereto, and wherein dispensing is effected by displacing the nozzle from its perpendicular position relative to the container.

Yet another object is to provide a shaving brush of the above nature wherein the attaching means comprises an axial opening in the base of the shaving brush for receiving a dispensing can nozzle, whereby pressure exerted against the side of the brush when attached to the nozzle will rockingly displace it to dispense lather axially through the center of the brush.

Another object is to provide a shaving brush of the character described including selectively operable means for preventing displacement of the brush with respect to a lather dispensing can when attached thereto at its nozzle, thereby to prevent accidental actuation of the lather release mechanism while vigorously lathering the face with the brush and can combination.

Yet another object is to provide a shaving brush of the character described which will be simple in construction, inexpensive to manufacture, attractive in appearance and durable in use.

Other objects, features and advantages of the invention will be apparent from the following description when read with reference to the accompanying drawings. In the drawings, wherein like reference numerals denote corresponding parts throughout the several views:

FIG. 1 is an elevational view of a shaving brush embodying the invention;

FIG. 2 is an elevational view, partly in cross-section, illustrating the brush attached to a pressurized lather dispensing can for use in conjunction therewith;

FIG. 3 is a cross-sectional view similar to FIG. 2 but illustrating the brush in tipped or inclined relation with respect to the can to actuate the dispensing mechanism;

FIG. 4 is a fragmentary view, partly in cross-section, of a modified form of the brush embodying the invention including mechanism for selectively locking of the brush in perpendicular relation with respect to the can; and

FIG. 5 is a view similar to that of FIG. 4 but showing the locking mechanism in locking position with respect to the can to prevent the accidental dispensing of lather.

Referring now in detail to the drawings, **10** designates a shaving brush embodying the invention for use with a pressurized shaving lather dispensing can generally indicated at **11**. The pressurized lather can **11** is of the type used by most manufacturers for packaging shaving soap to be dispensed in lather form, and comprises a cylindrical metal container member **12** having a convex upper end wall **13** from the center of which protrudes a dispensing nozzle **14**. The dispensing nozzle, which is commonly molded of a synthetic plastic material, is tubular in form and provided with a central, outer, screw-threaded portion **15** adapted to receive a screw-on cap (not illustrated) seatable against the upper surface of the upper end wall **13** of the can to prevent accidental dispensing of lather during shipment and storage. The lower end of the nozzle **14** is formed with an annular flange portion **16** providing a seat for the lower end of a rubber grommet **17** fitted thereon. The grommet **17** extends through a central opening in the upper end wall **13** of the container member **12** and serves to seal off the outer wall of the dispensing nozzle **14** with respect to said container member. Side openings **18** are formed in the nozzle **14** in circumferentially spaced relation just above the flange portion **16**, thereof, and the grommet **17** is formed with an annular recess **19** circumjacent said side openings. In ordinary use of the can in dispensing lather, the nozzle **14** is pushed sidewardly with the thumb, yielding under the resiliency of the rubber grommet **17**, whereupon the flange portion **16** of the nozzle will be tilted into a partially unseating position with respect to the grommet **17**, as illustrated by the position thereof in FIG. 3, to allow the pressurized lather to escape into the annular recess **19** thereof and the side openings **18** of the nozzle **14**, whence it will be discharged at the tip of the nozzle.

The brush **10** comprises a generally cylindrical base or handle portion **20** in the upper end of which bristles **21** are affixed in any suitable manner, such as by embedding thereat in a waterproof cement. The base portion **20** of the brush is provided with an axial bore **22**, a central portion of which is internally threaded as indicated at **23** to match the central screw thread **15** on a shaving lather dispensing can nozzle **14**. The lower end of the axial bore **22** in the brush base portion **20** is chamfered or divergently tapered, as indicated at **24**. In use, the brush **10** will simply be screwed down upon the lather can nozzle **14** until the inner end of the chamfered portion **24** is in seating engagement against a beveled shoulder **25** provided on said nozzle, whereat the lower end of the brush base portion **20** will be supported in slightly spaced relation with respect to the upper end

wall **13** of the can, as illustrated in FIG. 2. As illustrated in FIG. 3, applying pressure against the side of the brush base portion **20** will cause the nozzle **14** to be rocked or tilted with respect to the top of the can, whereupon lather will be discharged through the nozzle as described above and flow through the center of the brush to the tip end of the bristles **21**. It is to be noted that the can **10** can conveniently be gripped in the palm of the hand and the brush base readily pushed with the thumb to dispense lather as needed while lathering the face. There is thus no need to get lather on the hands preparatory to the use of a razor.

The embodiment of the invention illustrated in FIGS. 4 and 5 differs from that of FIGS. 1, 2 and 3 described above only in the provision of a short cylindrical sleeve **26** surrounding the lower portion of the brush base **20***a* and movable between withdrawn (as illustrated in FIG. 4) and extended (as illustrated in FIG. 5) positions with respect to said base portion. When in withdrawn position the sleeve **26** has no effect on the operation of the device. When in extended position, the lower end of the sleeve **26** seats against the upper surface of the upper end wall **13** of the can to prevent accidental discharge of lather. Pins **27** (only one shown) extending outwardly of the brush base **20***a* at opposite sides thereof and through slots **28** (only one shown) having vertical portions **29** and upper sidewardly-extending portions **30** serve to constrain the sleeve **26** to movement between its above described upper and lower limits with respect to said base member. As illustrated in FIG. 5, the sleeve can be locked in place in its lower or projecting position by turning it with respect to the brush base **20***a* so that the pins **27** extends through the sidewardly-extending portions **30** of the sleeve slots **28**.

While we have illustrated and described herein only two forms in which the invention may conveniently be embodied in practice, it is to be understood that these forms are presented by way of example only, and not in a limiting sense. The invention, in brief, comprises all the embodiments and modifications coming within the scope and spirit of the following claim.

What we claim as new and desire to obtain by Letters Patent is:

A shaving brush for use with pressurized lather dispensing cans of the type having a dispensing nozzle perpendicularly disposed at one end of the can and yieldably attached at its base for universal rocking motion with respect thereto, and wherein dispensing is effected by displacing the nozzle from its perpendicular position relative to the container, the combination comprising, a brush body member, brush bristles extending outwardly of one end of said body member, means for removably securing the other end of said body member upon the dispensing nozzle in spaced relation with respect to the end of the can, said securing means including an end-to-end opening within said brush body member for passing lather from the nozzle to said brush bristles, said securing means comprising an internal thread within said end-to-end opening threadable upon an externally-threaded portion on the nozzle, said end-to-end opening being formed with a divergently tapered portion extending into the other end of said base, means for preventing movement of said brush base with respect to the dispensing can when the brush is secured thereto, said movement preventing means comprising a sleeve surrounding said brush base and movable axially with respect thereto between positions in and out of contact with the end of the can, and means for locking said sleeve in contact position with respect to the end of the can.

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