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2,426,418

DETACHABLE BRUSH FERRULE FOR LIPSTICK CARRIER CUPS

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Fig. 1.

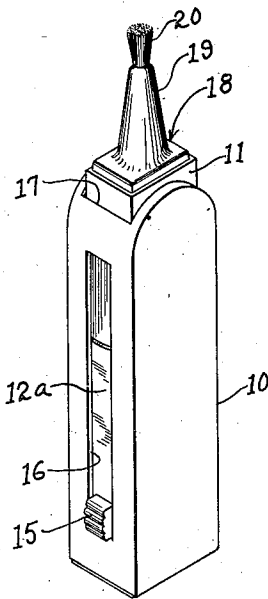


Fig. 2.

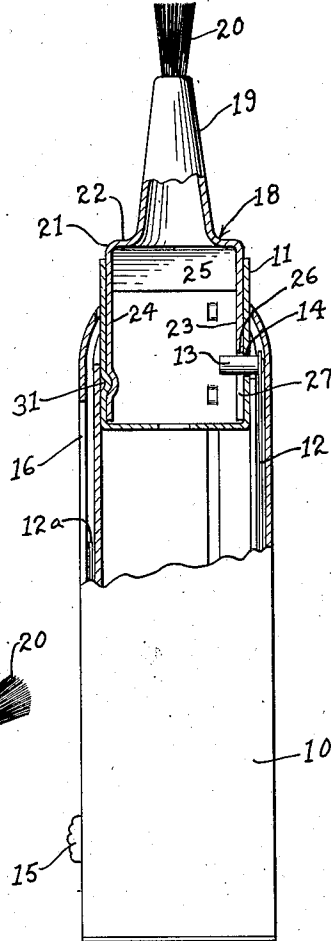


Fig. 3.

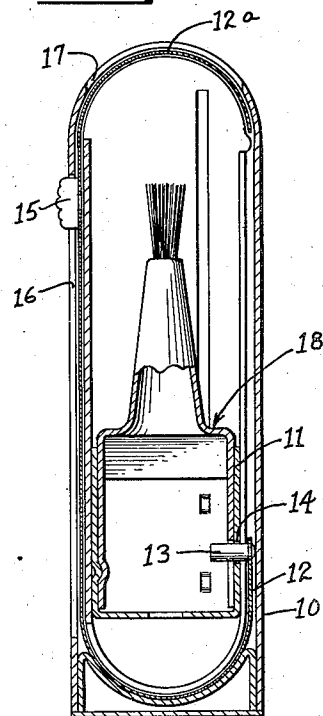


Fig. 4.

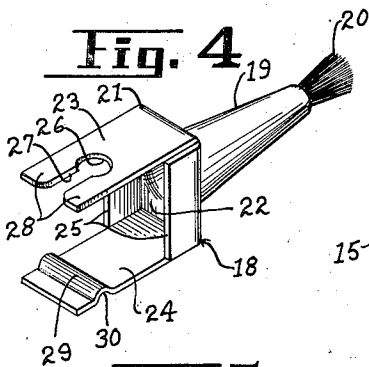


Fig. 5.

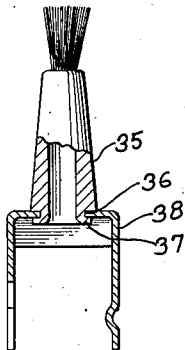
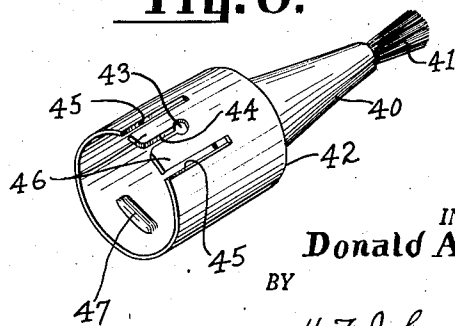


Fig. 6.



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DETACHABLE BRUSH FERRULE FOR LIP-STICK CARRIER CUPS

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7 Claims. (Cl. 15—176)

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This invention relates to cosmetic applying devices and particularly to a brush for applying paste, lip rouge, etc. having a ferrule construction designed to be removably inserted into a conventional form of lipstick container.

The trend of late is to purchase lip rouge as a paste in a box and apply it more expeditiously to the lips by the use of a brush designed for that purpose.

The primary object of this invention is to make use of the conventional forms of lipstick containers as a brush holder means, and which is accomplished by having the brush ferrule designed to be conveniently fitted into the carrier cup of such containers and projected for use and retracted into the container when not in use for purposes of protecting the brush from contamination or injury during such periods as the brush is not in use.

As an example, the brush ferrule can be designed to be fitted into the carrier cup of more or less rectangular shape in cross-section of the type illustrated and fully described in the James Lee Patent No. 2,064,557.

With this general object and others in view, the invention consists in the features, combinations and details of construction and arrangement of parts that will first be described in connection with the accompanying drawing and then more particularly pointed out.

In the drawing

Fig. 1 is a perspective view of a lipstick container showing the brush and ferrule member as it appears fitted into the carrier cup and elevated to projected position ready for use.

Fig. 2 is a side elevational view with the upper portion in vertical section to better show the interior construction and the brush member in projected position.

Fig. 3 is a vertical sectional view through the container showing the arrangement of parts with the brush in its retracted non-usable position.

Fig. 4 is a perspective view of the brush and ferrule, per se.

Fig. 5 is a sectional view in part of a modified form of brush ferrule for use in the same type of container as that of Fig. 4, and

Fig. 6 is a perspective view of a further modified form of brush ferrule, such as might be fitted into the carrier cup of a round type of lipstick container.

Referring now to the drawing in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 refers to the container body of the type such as fully disclosed in the Lee patent, referred to above.

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One of the particular features of this Lee lipstick container is the fact that the carrier cup is attached to one end of a flexible strap properly guided within the container, while adjacent the opposite end an actuating thumb piece is attached that operates through a longitudinal slot in one end wall of the container. The thumb piece, when operated longitudinally in a downwardly direction from the open end of the container, moves the carrier cup upwardly and when moved in an upwardly direction retracts the carrier cup and closes the opening by reason of the terminal end of the strap passing across the open end of the container. More specifically, as shown in Figs. 2 and 3, a carrier cup 11 of rectangular shape in cross-section is mounted to slide within the container 10. A long flexible strap 12 is suitably guided within the container and has a rivet 13 attached to one end thereof, which rivet is caused to pass through a suitable piercing 14 in one of the side walls of the carrier cup. At an intermediate portion of the strap 12 is riveted an actuating thumb piece 15 that projects through a longitudinal slot 16 of the casing 10 and designed to slide up and down therein in the operation of the device. A portion of the strap 12 extends a considerable distance beyond the riveted thumb piece 15, as at 12a and serves as a cover member in traversing an opening 17 in the upper end of the container, as best shown in Fig. 3 when the thumb piece 15 is moved to its uppermost position relative to the slot 16.

In order to devise a suitable brush ferrule to be accommodated by the carrier cup 11 of the particular type container described above, a brush ferrule generally indicated by the numeral 18 may be more or less constructed as shown in Fig. 4. Specifically the ferrule 18 consists of a relatively long tapering neck 19 having bristles 20 comprising the brush which may be set and secured in the usual manner in the tip end of said neck 19. The opposite end of the neck merges into a U-shape clip member 21 comprising a base 22, two legs 23 and 24 of a length to extend substantially the full depth of the carrier cup 11. Two side wings 25 are formed integrally with the base 22 and extend downwardly adjacent the edges of the legs 23 and 24 to provide a box-like structure that fits into the upper open end of the carrier cup 11 completely closing off the open end of the latter. The two legs 23 and 24 are designed to have a snap locking detachable engagement with structural characteristics that already exist within the carrier cup design. Specifically the upper leg 23, as shown in Fig. 4, is formed with a key hole slot comprising an opening 26 that is adapted to fit about the rivet 13

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and also a longitudinal slot 27 extending from the opening 26 through the tip end of the leg 23, thus dividing the lower end of the leg 23 into two sections 28 of a more or less laterally resilient character. The width of the slot 27 is designed to be slightly less than the diameter of the rivet 13 so that in assembling the brush ferrule into the carrier cup the end members 28 will have to give slightly laterally in springing over the rivet 13 until it is received into the opening 26 in snap locking engagement.

The opposite leg 24 is also designed for snap locking engagement within the carrier cup 11 in being formed with an inwardly formed transverse rib 29 for providing on the outer surface of the leg 24 a recess 30 for receiving a complementally elongated nub 31, already existing as an element on said carrier cup 11, it being obvious that the leg 24 will necessarily spring over said nub 31 until the recess 30 of the leg 24 is engaged thereover in the assembly of the ferrule 19 into cup 11.

From this structure, it will be apparent that the brush ferrule has in fact two types of gripping means to retain it in detachable position within the carrier cup 11, namely opening 26 and slot 27 in leg 23 engaging about the rivet 13 and the elongated recess 30 of the leg 24 engaging over the elongated nub 31 of the carrier cup.

It is further to be noted that the design of the brush ferrule, as shown in Fig. 4, is of a character to permit this article to be made from a sheet metal stamping.

If for lack of certain types of equipment, it is desirable to make the ferrule of two members, a modification of this type is shown in Fig. 5, wherein the tapering tubular neck 35 of the ferrule may be made as a screw machine product having a reduced end that can be riveted over as at 37 about a suitable opening 36 in a U-shape clip 38 which in all other respects may be constructed similar to the U-shape clip 21 of the first form as shown in Fig. 4.

If it is desired to provide a brush ferrule such as might be accommodated within the more popular types of round lipstick containers, both of the swivel as well as the push-up type, a structure of this character is shown in Fig. 6, wherein the usual elongated tapering neck 40 is provided for holding the brush bristles 41 and the opposite end of the tapering neck is integral with the base end of a cup-like shell 42. The wall of this cup-like shell 42 is similarly provided with a key-hole slot in the form of a round opening 43 and a slot 44 extending from said opening to the end of the shell. The key-hole slot is of a character to spread apart in slipping over the usual operating pin found in all lipstick containers, and in order to allow for the slot 44 to give laterally a pair of elongated slots 45 are provided in the shell 42 on opposite sides of the key-hole slot 43—44 to produce a pair of resilient legs 46 on opposite sides of the key-hole slot 43—44. It is to be noted that the slots 45 extend to a greater depth into the cup shell than does the key-hole slot 43—44, thus allowing the two legs 46 to give laterally when forcing the brush ferrule down into a carrier cup of the tubular shape container with the key-hole slot 43—44 aligned with the usual operating pin found in such containers and caused to detachably embrace the same. If desired the opposite side wall of the shell 42 may be provided with an inwardly formed rib 47 providing a longitudinal recess on the opposite side that may embrace a complementary projection that could be easily formed on the carrier cup of the container.

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It is evidenced from the disclosure and description of the carrier cup 14 in the Lee Patent No. 2,064,557 referred to above, and which is comparable to the carrier cup 11 of this application, that said cup is made as a drawn cup and, therefore, provides for a cup having a continuous uninterrupted wall in its complete circumference, allowing no part of the cup wall to flex or give laterally relative to itself. The same general structure likewise holds true to the carrier cups, usually of a cylindrical form, that are likewise used in the more conventional types of swivel and push-up lipstick containers referred to above.

While three forms of the invention herewith are shown and described, it is to be understood that the constructions may be varied as to mechanical details without departing from the spirit of the invention and the scope of what is claimed.

I claim:

1. In a brush ferrule construction for insertion into a carrier cup of the conventional form for a lipstick container and wherein the carrier cup is of rectangular shape having a pin projecting in from one wall thereof and having a nub projecting in from the opposite wall thereof, said ferrule comprising a sheet-metal U-shaped stamping and an attached tubular member, said stamping providing for a rectangular base having opposed legs and wings folded inwardly from the opposite edge of said base to form collectively a box-like structure that is adapted to be telescoped into said carrier cup in an inverted manner for completely filling and closing off the open end of said carrier cup, the legs being of greater length than said wings and adapted to extend to the base of said carrier cup, one of said legs provided with an axial key-hole slot opening through the end thereof and adapted to have detachable snap locking engagement with said pin, the material of said leg having the key-hole slot adapted to spring laterally relative to said slot independently of other portions of said ferrule, and the other of said legs provided with an inwardly formed transverse cross-rib for detachable engagement with the nub of said carrier cup.

2. In a brush ferrule construction for insertion into a carrier cup of the conventional cylindrical drawn-cup form for a lipstick container and wherein the cup has a continuous uninterrupted circumferential wall with a pin projecting inwardly from the wall thereof, said ferrule construction formed to provide a cylindrical shell having a closed base end and adapted to be telescoped into said carrier cup in an inverted manner for closing the open end thereof, and brush holder of reduced diameter extending axially outwardly from the outer face of said base, a key-hole slot extending axially inwardly from the edge of said shell, and a pair of slots disposed on opposite sides of said key-hole slot and extending into said shell wall to a greater extent than said key-hole slot and less than the full length of said shell whereby the wall material between said slots is capable of flexing laterally independently of the main body wall of said shell when the key-hole slot is being slipped over said pin in the assembly and disassembly of said ferrule into said cup.

3. In a brush ferrule construction for insertion into a carrier cup of the conventional drawn-cup form such as used in a lipstick container and wherein the cup has a continuous circumferential wall with an inwardly projecting pin, said ferrule comprising an intermediate cup-shaped body part constructed from sheet metal and having a closed

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end, said body part adapted to be telescoped into the open end of said carrier cup with its closed end disposed outwardly relative to said cup for completely filling and closing off the open end of said carrier cup, a tapering neck drifted outwardly of the material of the closed end of said body part, a brush supported at the small distal end of said neck, the opposite end of said body part having portions extended inwardly to the full depth of said cup, one portion of which is in the form of a leg free of the body part except for its point of attachment and having an axial key-hole slot opening through the end of said leg and adapted to have slip engagement over said projecting pin, the width of the material either side of said slot being such as to permit the same to spring laterally edgewise relative to said key-hole slot, and the construction of said leg being such as to allow for the edgewise spring of said leg material independently of the body part of said ferrule.

4. In a brush ferrule construction for insertion into a carrier cup of the conventional drawn-cup of rectangular shape in cross section for use in a lipstick container and wherein the cup has an uninterrupted connected circumferential wall with a projecting pin extending in from one wall, said ferrule construction formed to provide a rectangular base from which axially extends a reduced portion, a brush supported in the distal end of said reduced portion, opposed legs and wings folded inwardly from the opposite edges of said base and forming a rectangular box-like structure that is adapted to be telescoped into the open end of the carrier cup with the base of the box-like structure disposed outwardly and said box-like structure serving to completely fill and close off the open end of said carrier cup, the legs being of greater length than said wings and adapted to extend to the base of said carrier cup, one of said legs provided with an axial key-hole slot opening through the end thereof and adapted to have detachable snap locking engagement with said pin, the material of said leg having the key-hole slot being of a width each side of said slot such as to permit the same to spring laterally edgewise relative to said slot independently of other portions of said ferrule.

5. In a brush ferrule construction for insertion into a carrier cup of the conventional drawn-cup form such as used in a lipstick container and wherein the cup has a continuous circumferential wall with an inwardly projecting pin and a diametrically opposed inwardly projecting nub, said ferrule comprising an intermediate cup-shaped body part constructed from sheet metal and having a closed end, said body part adapted to be telescoped into the open end of said carrier cup with its closed end disposed outwardly relative to said cup for completely filling and closing off the open end of said carrier cup, a tapering neck drifted outwardly of the material of the closed end of said body part, a brush supported at the small distal end of said neck, the opposite end of said body part having portions extended inwardly to the full depth of said cup, one portion of which is in the form of a leg free of the body part except for its point of attachment and having an axial key-hole slot opening through the end of said leg and adapted to have slip engagement over said projecting pin, the width of the material either side of said slot being such as to permit the same to spring laterally edgewise relative to said key-hole slot, and

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another portion of said body part formed with a transverse rib having snap locking engagement over said cup nub.

6. In a brush ferrule construction for insertion into a carrier cup of the conventional drawn-cup of rectangular shape in cross-section for use in a lipstick container and wherein the cup has an uninterrupted connected circumferential wall with a projecting pin extending in from one wall and a nub projecting in from the opposite wall, said ferrule construction formed to provide a rectangular base from which axially extends a reduced portion, a brush supported in the distal end of said reduced portion, opposed legs and wings folded inwardly from the opposite edges of said base and forming a rectangular box-like structure that is adapted to be telescoped into the open end of the carrier cup with the base of the box-like structure disposed outwardly and said box-like structure serving to completely fill and close off the open end of said carrier cup, the legs being of greater length than said wings and adapted to extend to the base of said carrier cup, one of said legs provided with an axial key-hole slot opening through the end thereof and adapted to have detachable snap locking engagement with said pin, the material of said leg having the key-hole slot being of a width each side of said slot as to permit the same to spring laterally edgewise relative to said slot independently of other portions of said ferrule, and the other of said legs provided with an inwardly formed cross rib for detachable engagement with the nub of said carrier cup.

7. In a brush ferrule construction for insertion into a carrier cup of the conventional form for a lipstick container and wherein the carrier cup is of rectangular shape having a pin projecting in from one wall thereof and having a nub projecting in from the opposite wall thereof, said ferrule comprising a base having an axial tapering neck portion drifted outwardly from the central area of said base, a brush member projecting from the smaller end of said neck portion, opposed legs and wings integral with the opposite edges of said base and folded inwardly to collectively form a box-like structure adapted to be telescoped into the open end of said cup with its base disposed outwardly relative to the open end of said cup and serving to close the open end of said cup, the legs extending beyond the length of said wings, one leg provided with a key-hole slot for detachable engagement with said pin and the other leg having a cross rib for detachable engagement with said nub, the material of said leg each side of the key-hole slot being of a width as to be capable of flexing laterally edgewise relative to said slot independently of said wings.

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