Sept. 27, 1938. A. C. HOFFMAN 2,131,046

LIPSTICK CONTAINER

Filed Dec. 22, 1936

Fig. 1.

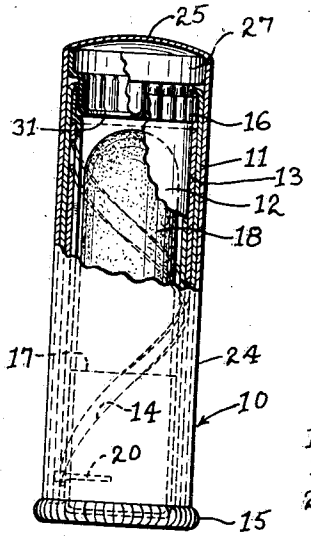


Fig. 2.

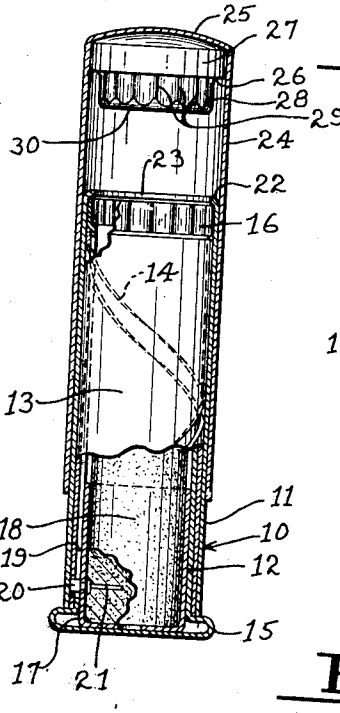


Fig. 3.

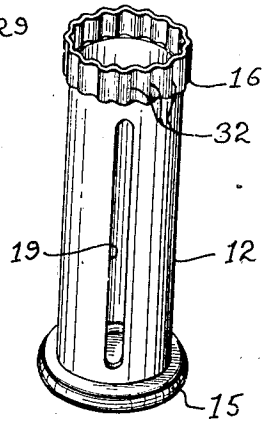


Fig. 4.

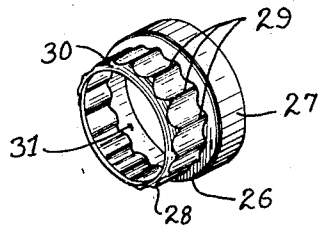


Fig. 5.

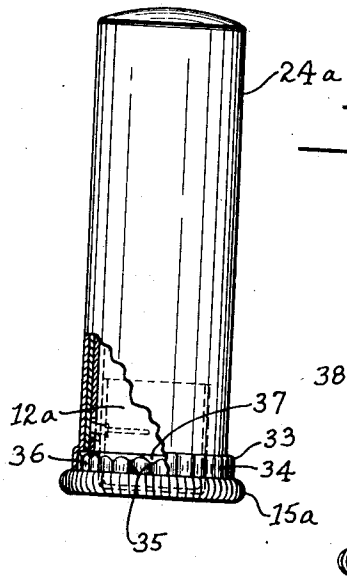


Fig. 6.

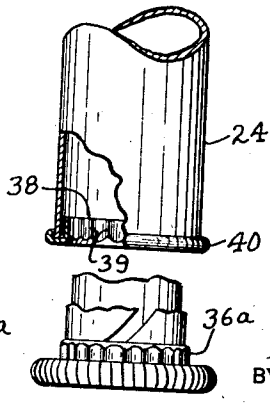
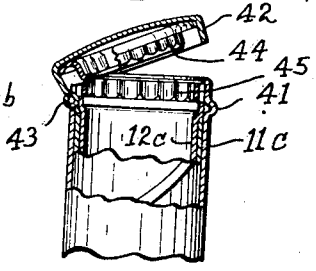


Fig. 7.



INVENTOR
Allan C. Hoffman
BY
H. F. Johnston
ATTORNEY

Patented Sept. 27, 1938

2,131,046

UNITED STATES PATENT OFFICE

2,131,046

LIPSTICK CONTAINER

Allan C. Hoffman, Milldale, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application December 22, 1936, Serial No. 117,137

16 Claims. (Cl. 206—56)

This invention relates to certain improvements in containers for lipsticks, eyebrow pencils and similar soft pasty cosmetics, and particularly to a type of container in which the cosmetic stick is supported in a carrier which is moved from an enclosed casing to expose the stick for use and then withdrawn into the casing and covered by a cap member, this type of dispenser being generally known as a swivel-type lipstick container.

One of the inherent faults of the above type of lipstick containers is that frequently in packing the container for shipment, or carrying the same around in a handbag, or idly playing with the same, the members composing the container are liable to be accidentally rotated in relation to each other with the result that the cosmetic is forced into contact with the inside of the cap, creating disfigurement and soiling of working parts and deforming the shaped end of the cosmetic, to the annoyance of the user, and to the prejudice of the market.

It is, therefore, the main object of this invention to provide a simple means by which the unintentional movement of the cosmetic stick in its casing is effectually prevented.

It is a further object to provide a cosmetic container of the above nature in which means are provided for interlocking the rotatable cosmetic propelling means of the casing with the cover when assembled thereon, and especially to provide for such interlocking means which may be readily applied to a standard or stock lipstick with the minimum of changes and parts.

With these and other objects in view, the invention consists in certain novel features of construction, combinations and arrangements of parts, as will be more fully disclosed in connection with the accompanying drawing and as set forth in the annexed claims.

In the drawing:

Figure 1 is a partial side elevation and partial sectional view of a lipstick container embodying the principles of this invention, and showing the parts in their normal assembled locked position.

Figure 2 is a longitudinal sectional view through the lipstick container and cover showing them in partly detached position, with the locking elements separated.

Figure 3 is a perspective view of the inside shell showing the details of one of the elements of the locking feature.

Figure 4 is a detailed perspective view of an insert shell, which is adapted to be inserted within the cover member, and discloses other features of the locking means.

Figure 5 shows a side elevation view of a modified construction, portion of said view being broken away to better show the locking feature.

Figure 6 shows fragmentary separated views of cover and container members showing a further modification of the form disclosed in Figure 5.

Figure 7 is a fragmentary sectional view of a hinged cover swivel lipstick container showing the locking feature embodied therein.

Referring now to the drawing in which like numerals refer to corresponding parts throughout the several views: the numeral 10 refers generally to a dispensing container comprising an outside tubular casing 11 and inside shell 12 rotatably mounted therewithin. Disposed between the casing 11 and shell 12 and adapted to be retained and carried by the outside casing 11 is a spring sleeve 13 having a helical groove or slot 14 extending from end to end thereof.

The base or lower end of the inside shell 12 is provided with an integral head 15 which is adapted to extend beyond the outside diameter of the outside shell 11. The head 15 is preferably provided with a knurled surface as best shown in Figures 1 and 3 to assist in manipulating the same, but it is to be understood that the head 15 could be made as well of any polygonal shape to omit the knurled portion within the scope of the invention. The upper end of the inside shell 12 has a portion indicated by the numeral 16 formed outwardly in a manner to be more specifically pointed out later, this deformed portion 16 for the present serving to rotatably interconnect the inside shell 12 with combined outside shell 11 and sleeve 13, and adapted to engage against the upper annular edge of the spring sleeve 13 as a thrust bearing.

Mounted to slide within the inside shell 12 is a cosmetic stick carrier in the form of a cup 17 in which is held a cosmetic stick 18. The inside shell 12 is formed with a longitudinal slot 19 extending substantially the entire length of said shell. Within, adapted to slidably engage the slot 19, there is provided a head 20 of a pin 21 secured to the cup 17 as best shown in Figure 2. The pin 21, if desired, may project a substantial distance within the cup to be embedded within the material of the cosmetic stick as a better means for holding the stick 18 within the cup 17. The head 20 of the pin 21 is adapted to project beyond the slot 19 and engage within the helical slot 14 of the sleeve 15 previously mentioned, and as will be evident, the mere rotation of the inside shell 12 relative to the outside casing 11 through the manual operating of the head

15 will positively project and retract the cosmetic stick 18 carried by the cup 17.

The forward end of the outer shell 11 is rounded inwardly as at 22 to provide for a smooth surface surrounding an opening 23 in the end of the outside casing through which the stick 18 must protrude in use. The container 10, when the cosmetic is withdrawn, is adapted to be closed by a closure cap 24 as shown in Figures 1 and 2, which is provided with a crowned closing end 25 and is designed to telescope over the entire length of the outside shell 11. Up to this point the construction disclosed is old and well known in the art of lipstick containers and forms no part of the present invention except as used in combination with the interlocking feature hereinafter disclosed.

In accordance with this invention there is provided means whereby the inside shell 12 and complementary operating head 15 are interlocked against rotation within the casing 11 by the mere assembling of the cap 24 upon the container 10, thus preventing accidental longitudinal movement of the stick carrying cup 17. While the specific construction effecting this locking feature may be somewhat varied as shown by the modifications herein, the preferred and simplest construction is disclosed in Figures 1 to 4 inclusive. Thus, there is provided a stepped cup-like insert shell 26 comprising an upper larger cylindrical portion 27 and a lower smaller portion 28. The smaller portion 28 is provided with a series of scallop-like longitudinal projections or flutes 29, which assume in transverse cross section a sinuous annular ring.

The insert shell 26, shown in Figures 1 and 2, is adapted to be disposed in the upper end of the closing cap 24 adjacent to crowned end 25. The outer diameter of the cylindrical section 27 of the insert shell 26 is such, relative to the inside diameter of the closure cap 24, that said insert shell 26 is assembled into its permanent position preferably by a drive or force fit to assure a rigid and non-rotatable connection between the parts. The insert shell 26 is originally formed with a crown or base end closing the smaller section 28 of said shell, and conjoined by a noticeable radius that naturally provides for a chamfered or round bevel-like portion 30 which is adapted to merge smoothly into the lower ends of each of the flutes 29, (see Figure 4). Subsequently, the base of this shell may be pierced out to provide for an opening 31 to allow for suitable clearance for a new cosmetic stick in case its length should cause it to extend upwardly therewithin.

The upper outwardly formed portion 16 of the inside shell 12 previously mentioned is likewise formed with a series of corresponding longitudinal scallop-like projections or flutes 32 presenting a sinuous ring (see Figure 3) which permits interengagement with the flutes 29 of the insert shell 26 in the cover 24.

Now when the cover 24 is assembled upon the casing 10 its full length, the flutes 29 of the insert shell 26 are adapted to slidably interfit with the corresponding flutes 32 in the expanded portion 16 of the inside shell 12 in an interlocking manner; if, perchance, the flutes 32 are not in proper alinement with the flutes 29 of the insert shell 26, they will be automatically forced into such alinement, coincident with the telescoping of the cover 24 and the container 10, by reason of the chamfer 30 on the end of the flutes 29 previously mentioned. Thus it will be evident that through this interlocking feature when the cover 24 is upon the casing 10 it will not be possible to actuate any movement of the carrier cup 17.

In Figure 5 there is shown a modified form of the interlocking feature wherein the insert shell 26 is omitted from the cover 24*a*, and in place thereof the lower end of said cover is provided with an outwardly stepped portion 33 formed with a series of scallop-like longitudinal serrations or flutes 34 which are adapted to readily interlock with corresponding flutes 35 formed on an enlarged section 36 formed integrally with the inside shell 12*a* adjacent to the head 15*a*. The upper end of the section 36 may be likewise chamfered, as at 37, to facilitate the full assembly of the cover 24*a*.

In case it is objectionable to place visible flutes or teeth on the lower end of the cap 24*a* in Figure 5, this may be avoided by a construction disclosed in Figure 6, wherein the lower end of the cap 24*b* is provided with an inner attached collar 38 having the interlocking flutes 39 positioned within the inner end of the cover 24*b* adjacent the open end. The collar 38 may be made secure to the cover 24*b* by being spun over and forming an attaching bead 40 around the lower annular end of said cover 24*b*. Obviously the construction of the inside shell may be formed the same as in the modification of Figure 5 as shown by the fragmentary view in Figure 6 except for the relative diameter of the enlarged section 36*a*.

In Figure 7 there is shown the interlocking feature applied to a lipstick container having a hinged closure cap. Herein is disclosed an outer casing 11*c* having a projecting circumferential rib 41 adjacent the upper open end. A relatively narrow cap 42 is attached to the rib part 41 of the casing by a hinge 43, a construction well known in the art. An insert shell 44 is affixed within the interior of the cap as by soldering, and said shell 44 is formed with suitable projecting elements similar to those disclosed in the preferred form of the invention, and designed to have interlocking engagement with the correspondingly formed ring 45 integral with the upper end of the inside shell 12*c*. Obviously the closing of the hinged cap 42 effects the desired locking feature.

Before concluding this specification, attention is called to the fact that one of the outstanding desiderata of this interlocking feature for lipstick containers resides in the simplicity of construction, wherein said interlocking feature can be applied to the several types of stock lipstick containers disclosed without the necessity of changing the established set-up in tools or operations making such stock lipsticks, it being only necessary to slightly reform one of the parts and add a new shell to the cover.

While this invention has been shown and described in several forms, it will be understood that other changes and variations may be made in the specific constructions shown and described without departing from the scope of the invention as defined in the appended claims.

What is claimed is:

1. In a holder for cosmetics and the like, an outer casing, a sleeve rotatable in said casing, a cup for carrying a cosmetic stick, cooperative means in said casing for advancing and retracting said cup coincident with the rotation of said sleeve relative to said casing, a closure cap telescoping over substantially the entire length of said casing, an insert shell fitted into the upper

end of said cap, the upper end of said rotatable sleeve having projections formed out of the normal plane thereof, and cooperative means on said insert shell having interlocking engagement with said projections when said cover is in assembled position, whereby said sleeve is locked against rotation.

2. In a holder for cosmetics and the like, an outer tubular casing having an open end, an inner shell rotatable in said casing, a cup for supporting a cosmetic stick within said shell, cooperative means in said casing for moving said cup longitudinally in said casing coincident with the rotation of said sleeve relative to said casing, a closure cap covering the open end of said casing, means in said cap having a series of teeth, and means provided on the upper end of said shell having corresponding teeth adapted to be interlocked with the teeth means on said cap when in assembled position to assure non-rotation of said inner sleeve relative to said casing.

3. In a holder for cosmetics and the like, a casing having an open end, a carrier in said casing, relatively rotatable means within said casing for advancing and retracting said carrier, a longitudinal cover telescoping over substantially the entire length of said casing, and cooperative interlocking means characterized by longitudinal telescopically interfitting teeth carried by said cover and said rotatable means whereby said latter means will be locked against rotation within said casing only when said cover is in completely assembled position.

4. In a holder of the character disclosed, an outer shell casing, sleeve means attached to said casing having a spiral guideway, an inner shell rotatable within said sleeve, a cosmetic carrier in said rotary shell and having cooperative engagement with said guideway through said shell and adapted to be longitudinally advanced and retracted upon the rotation of said inner sleeve relative to said outer sleeve, a closure cap for said casing, the upper end of said inner sleeve provided with a series of interruptions, and similar interruptions provided within said closure cap, the interruptions of said sleeve and said cap having detachable interlocking engagement with each other when said cap is in assembled position to assure non-rotation of the interrelated parts.

5. In a swivel cylindrical type lipstick container of the character disclosed having an open end through which a cosmetic stick may be protruded, said container having concentric relatively rotatable inner and outer sleeves, a closure cap covering said open end, a sliding carrier within the inner sleeve, means at the lower end of said container for moving said carrier by rotating one sleeve relative to the other, and means adjacent the closed end of said cover forming a locking element, and cooperative means at the upper end of said inner sleeve having interlocking engagement with said locking element whereby said latter sleeve will be locked against rotation only when said cap is in closed assembled position.

6. In a container of the character disclosed, an outer casing, an inner sleeve rotatable within said casing, a sliding carrier within said inner sleeve, means for advancing and retracting said carrier coincident with the rotation of said sleeve, a cover member adapted to telescope over substantially the entire length of said casing, the upper end of said rotatable sleeve having a series of longitudinal grooves, and means affixed into the upper end of said cover member having interlocking engagement with said grooves to prevent relative rotation of said sleeve when said cover is assembled.

7. In a container of the character disclosed, an outer casing, an inner sleeve rotatable within said casing, a sliding carrier within said inner sleeve, means for advancing and retracting said carrier coincident with the rotation of said sleeve, a cover member adapted to telescope over substantially the entire length of said casing, the upper end of said rotatable sleeve having a series of longitudinal tooth-like grooves, an insert shell rigidly fitted into the upper end of said cap and having a set of corresponding tooth-like grooves adapted to telescopically interengage with said first mentioned grooves when said cover is assembled in position.

8. In a container of the character disclosed, an outer casing, an inner sleeve rotatable within said casing, a sliding carrier within said inner sleeve, means for advancing and retracting said carrier coincident with the rotation of said sleeve, a cover member adapted to telescope over substantially the entire length of said casing, the upper end of said rotatable sleeve having a series of longitudinal tooth-like grooves, an insert shell rigidly fitted into the upper end of said cap and having a set of corresponding tooth-like grooves adapted to telescopically interengage with said first mentioned grooves when said cover is assembled in position, the lower end of grooves of said insert shell having a camming surface to guide one set of the tooth-like grooves into the other set of grooves.

9. In a cosmetic dispensing container of the character disclosed, an outer casing, an inner shell rotatable within said casing, a stationary sleeve in said casing having a spiral guideway, a cosmetic carrier in said shell, means for rotating said shell, means on said carrier coacting with said guideway to move said carrier longitudinally within the shell when the latter is rotated, the upper end of said shell having an expanded portion for bearing engagement with the upper annular edge of said sleeve, said portion being formed with a series of longitudinal scallop-like inwardly projecting ribs, a closure cap for telescopic engagement over said casing, an insert member made rigid within the upper closed end of said cap, said member having a series of longitudinal scallop-like teeth adapted to interengage between said ribs of said inner shell to lock the latter against rotation when said cover is in assembled position.

10. In a cosmetic dispensing container of the character disclosed, an outer casing, an inner shell rotatable within said casing, a cup for carrying a cosmetic stick, means for advancing and retracting said carrier coincident with the rotation of said shell, the upper end of said inner shell being expanded and provided with a series of longitudinal scallop-like serrations, a closure cap for telescopic engagement over said casing, an insert member for said cap comprising a stepped cup-like cylindrical shell, the upper enlarged end of said shell being of a dimension to afford drive non-rotatable fit within the upper end of said cap, the lower end of said stepped shell being provided with a series of tooth-like projections adapted to have interlocking engagement with the serrations of said inside shell when said cap is in assembled position.

11. In a cosmetic dispensing container of the character disclosed, an outer casing, an inner shell rotatable within said casing, a stationary

sleeve in said casing having a spiral guideway, a cosmetic carrier in said shell, means on said carrier coacting with said guideway to move said carrier longitudinally within the shell when the latter is rotated, the upper end of said shell having an expanded portion for bearing engagement with the upper edge of said sleeve, said portion being formed in the shape of a sinuous annular rim, the upper end of said outer casing being rounded over the outer edge of said sinuous ring to protect the user against the sharp edges of said ring, a closure cap for telescopic engagement with said casing, a double stepped insert shell having a drive fit within the upper end of said cap, the smaller stepped portion of said insert shell having a similar sinuous configuration adapted to interengage with the sinuous annular rim of said inner shell whereby the latter is locked against rotation when said cover is in assembled position, the lower end of said stepped shell being chamfered to facilitate the guiding of the sinuous portion of said stepped shell within the sinuous ring of the inner shell and having a concentric aperture to provide for clearance space for said stick.

12. In a cosmetic dispensing container of the character disclosed, an outer casing, an inner shell rotatable within said casing, the lower end of said shell having a head extended outside of said casing for manual manipulation of said shell, a cosmetic carrier in said shell, means for advancing and retracting said carrier upon rotation of said shell, the upper end of said shell provided with an integral ring of sinuous shape on a transverse plane, a closure cap for said casing, an insert stepped cup shell affixed within the upper end of said cap, the small portion of said shell being of a sinuous shape in a transverse plane and adapted to slidably interfit with the sinuous ring of said shell to lock the latter against rotation when said cup is assembled.

13. In a dispensing container of the character disclosed, an outer casing, an inner shell rotatable within said casing, a carrier slidable within said shell, means for advancing and retracting said carrier coincident with the rotation of said shell, a closure cap hinged adjacent the upper end of said casing, locking elements formed in the upper end of said shell, and means disposed within said cap having interlocking engagement with said elements when said cap is in closed position to prevent relative rotation of said shell and casing.

14. In a dispensing container of the character disclosed, an outer casing, an inner shell rotatable within said casing, a carrier slidable within said shell, means for advancing and retracting said carrier coincident with the rotation of said shell, a closure cap having hinged connection adjacent the upper end of said casing, the upper end of said shell being formed with a series of flutes, an insert member affixed within the inside of said cap, said insert member having a series of corresponding flutes adapted to have interlocking engagement with the flutes of said shell when said cap is in a closed position.

15. In a dispensing container having an open end, a closure cap for fitting over the open end of said container, a carrier member within said container, means rotatable within said container for advancing and retracting said carrier member and manually operable from the lower end of said container, and means to prevent advancement of said carrier member when the cover is in closed position upon said container, said latter means comprising mutually interlocking elements cooperating in the upper end of said cover and rotatable means respectively.

16. In a dispensing container having an open end comprising an outer casing, an inner shell rotatable within said casing having exposed means at the lower end of the casing for manually operating the same, a carrier slidable within said shell, means for advancing and retracting said carrier coincident with the rotation of said shell, the upper end of said rotatable sleeve formed with a series of flutes, a cover for closing the open end of said container, means affixed within said cover having corresponding flutes for mutual interlocking engagement with said first mentioned flutes, the advancing end of the flutes within said cap being chamfered or beveled off to facilitate the guiding of the complementary fluted portions into interfitting engagement with each other.

ALLAN C. HOFFMAN.