Oct. 13, 1936. G. J. DANCO 2,057,085

LIPSTICK CONTAINER

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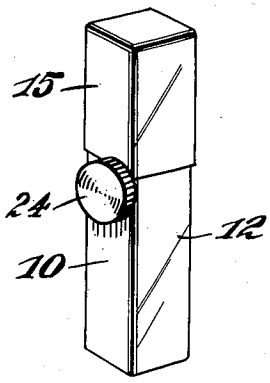


Fig. 1.

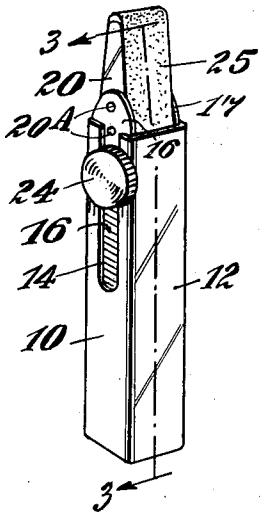


Fig. 2.

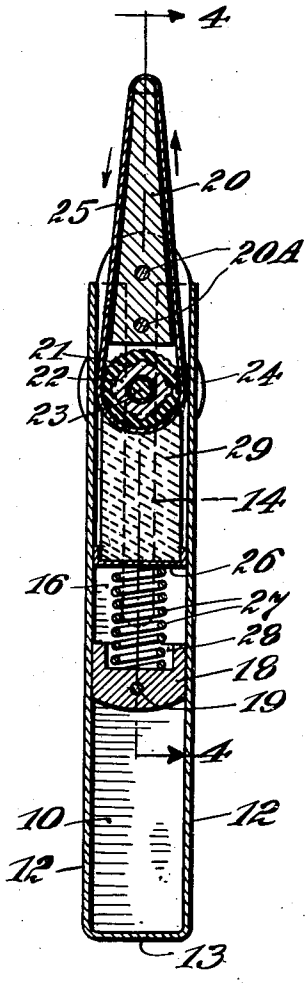


Fig. 3.

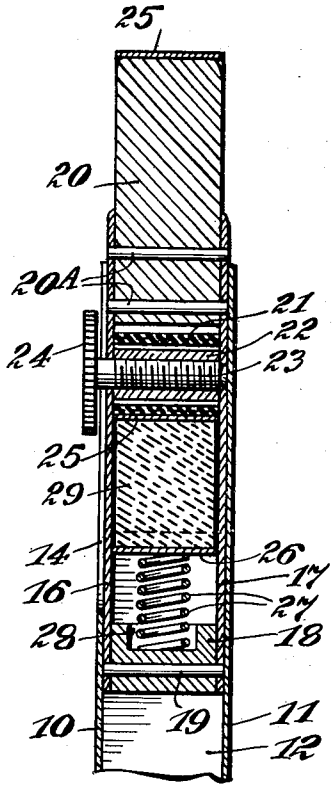


Fig. 4.

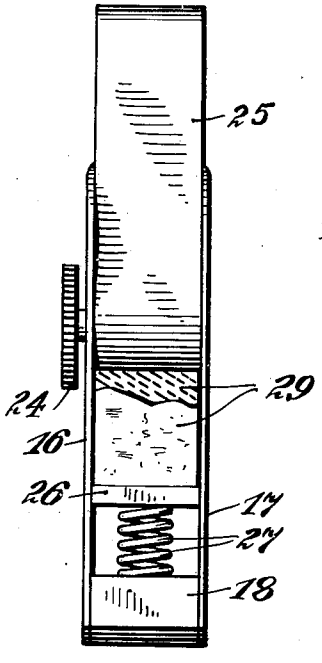


Fig. 5.

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LIPSTICK CONTAINER

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14 Claims. (Cl. 132—79)

My invention relates to lipstick containers and refers particularly to such containers of the general type comprising an outer protective casing which is adapted also to serve as a handle for applying lipstick material to the lips.

Among the objects of my invention are the following:—

To enable lipstick material to be applied to the lips as an even coating, and not irregularly, or in patches or spots.

To enable the application of the correct amount desired, particularly to obviate an undesirable excess, thus avoiding the waste and inconvenience of having to wipe off the excess of lipstick material from the lips.

To effect an even, smooth, uniform spreading of the lipstick material over the surfaces of the lips, without need of using the fingers for this purpose or of employing a separate spreading device.

To provide a device by which lipstick material may be properly, conveniently, quickly and economically applied to the lips.

To provide a device of simple construction and which is economical to manufacture.

Commonly heretofore the bared end of a lipstick itself has been applied directly to and wiped over the surfaces of the lips.

This results in too much of the lipstick material being applied in some places, not enough, or none, in others, and requires a separate spreading operation, as well as the wiping away of any excess application of the lipstick material.

Also the end surface of the lipstick wears away unevenly and irregularly, so that very soon the lipstick end will not be of the proper shape to form an effective applicator.

In the device of my invention, the lipstick material is transferred from a lipstick to a combined applicator and spreader element from which it is transferred to the lips.

This element is in the form of a flexible endless band or tape of fabric or other suitable material.

At one place this applicator band has a bend or bight passing part way around a manually rotatable frictionally acting driving roller, at another place it has another bend or bight passing over the tip end of a supporting finger, upon which it is guided for traveling movement, with stretches or runs of this band extending along the opposite sides of this finger.

A spring presses the lipstick against the applicator band where it is backed by its driving roller.

The lipstick, the roller and the finger are carried by a slidable frame by means of which the finger, having thereon the applicator band, may be projected beyond the end of a handle-forming outer casing, and again retracted or withdrawn into the casing.

Rotative movement of the roller coats the applicator band with lipstick material and causes it to travel around the finger to a new position thereon.

With this finger at its protruding position, the portions of the applicator band upon either side of this finger, or upon its outer tip end, may be used upon the lips, for applying and spreading lipstick material over them.

The simplicity, economy, efficiency and convenience, with other desirable attributes, of the device of my invention will be evident later.

My invention will be clearly understood from a consideration of the following particular description, taken in connection with the accompanying drawing illustrating one form of my device, and in which similar parts are designated by similar numerals.

Figure 1 is a perspective view of a lipstick container of my invention, shown as closed.

Figure 2 is a similar view with the closure cap removed and the applicator projected for use.

Figure 3 is an enlarged central longitudinal section on the line 3—3 of Figure 2.

Figure 4 is an incomplete central longitudinal section on the line 4—4 of Figure 3.

Figure 5 is a side view of the lipstick carrier and applicator part, removed from the casing part.

The particular form of the device of my invention illustrated in the accompanying drawing comprises an elongated rectangular main outer casing part having a front wall 10, a rear wall 11, similar side walls 12—12 which are somewhat wider than the front and rear walls 10, 11, and a bottom or lower end closure 13, the upper end of this casing part being fully open. The front wall 10 has through it a slotted opening 14 midway of its width and extending from about midway of its length upwardly and out through its upper end. This casing part is desirably of resilient material.

A readily removable cover cap 15 frictionally telescopes over the upper end of the described main casing part, throughout the depth of this cap, and covering most of the slot 14, protecting, yet to be described, inner operating parts of the device from the drying effect of air, from dust, enhancing the appearance of the device when not in use, and contributing to compactness. With its cap 15 removed, the elongated main outer casing part provides a convenient handle for the device in use.

The described outer casing removably contains and forms a housing for an inner operating structure or part, partly shown in Figures 1 and 2, completely shown in Figures 3 and 4, and separately shown in Figure 5. This struc-

ture comprises an elongated frame member adapted to have a frictional longitudinally slidable fit within the main casing part.

The mentioned frame member has similar front and rear plates 16 and 17. The lower ends of these frame plates are fixedly connected by means of an interposed block 18 and a through rivet pin 19. The upper end portions of these plates 16 and 17 are similarly fixedly connected by means of the interposed inner or lower end portion of a vertically elongated block 20 and a pair of through rivet pins 20A—20A, by means of which the end block 20 is rigidly secured to the plates 16 and 17.

The upper ends of these plates are rounded (Figures 2 and 3) and also have their exposed corners rounded (Figures 4 and 5). The plates 16 are 17 are spaced to fit against the front and rear casing walls 10 and 11, as shown in Figures 2 and 4, and are of a width so that their edges fit against the casing side walls 12—12, as shown in Figures 2 and 3.

The elongated block 20 forms a finger which extends upwardly beyond the upper ends of the frame plates 16 and 17. This finger 20 has flat parallel front and rear faces but at its opposite side faces it tapers upwardly in wedge form. This taper is shown as extending throughout the length of this finger-forming block 20.

Its wider or thicker lower end is thinner or narrower than the width of the plates 16—17. Its outer end forms a straight relatively thin or narrow rounded tip, the front and rear ends of which have small bevels. Its opposite tapering side faces are slightly concavely curved along their length, as shown in Figure 3, for a reason explained later.

A cylindrical soft rubber power-transmitting driving roller 21 extends between the front and rear frame plates 16 and 17 with its periphery spaced slightly below the lower end of the finger block 20 and also spaced away from the edges of these plates, this roller being of slightly greater diameter than the width of the lower end of the block 20. For securing good frictional traction, this driving roller 21 has a rough surface, indicated in Figure 3 as being ridged or corrugated.

This rubber roller 21 has a tubular metal core or bushing 22, shown as provided with ridges forming keys which are seated in grooves in the rubber of the roller, whereby this roller may be rotated by its bushing.

The roller 21 is carried by a shaft 23 extending through its bushing 22 and journaled in the front and rear frame walls 16 and 17. The operating shaft 23 is screwed through the bushing 22 with a tight-fitting right-hand screw thread, which provides a driving fit, capable of rotating the bushing 22 from the shaft 23. The end of the thread on this shaft is jammed into and against the forward end of the bushing 22 adjacent to the front wall 16.

The smooth forward end portion of the screw-threaded shaft 23 extends beyond the front frame wall 16 and is of a length to be adapted to extend beyond the front wall 10 of the outer casing, through its slot 4, where the end of this shaft has a milled finger wheel 24 fixed thereon, by means of which it may be turned.

The rear end portion of the roller shaft 23 is reduced and shouldered with its reduced end upset or headed in a countersink at the rear of the rear frame wall 17. This prevents the removal and possible loss of this shaft.

An endless flexible applicator band 25 passes around the lower portion of the drive roller 21, upwardly along the tapering sides of the finger block 20 and over its thin rounded tip. This band 25 is of the same width as the adjacent or underlying faces of the block 20 and has the opposite edges of its lower portion guided between the front and rear walls 16 and 17 for approximately the lower half of the length of its side stretches or runs, whereby this band will be maintained upon the block 20 in position to cover its finger tip and side faces.

The applicator band 25 may be of any suitable material, such as cloth fabric, or soft rubber. It is stretched moderately taut as indicated in the drawing. The slight longitudinal concave curvature of the side faces of the finger block 20 provides clearance for the band 25, which prevents it from adhering to these faces, and also reduces its friction, in its traveling movement, to be described.

The roller 21 has sufficiently strong frictional engagement with the band 25 to impart traveling movement to the latter. This will take place upon rotation of the finger wheel 24 in either direction, which will most commonly be clockwise, or right hand, as viewed from the front in Figures 1 and 2, as indicated by the arrows applied to the band 25 in Figure 3, in which the view is from the rear.

A lipstick carrier 26 is slidably guided between the front and rear frame walls 16 and 17, above their lower connecting piece 18 and below the roller 21, and is similarly vertically slidable between the outer casing side walls 12—12. The lipstick carrier 26 is constantly urged upwardly by a rather long extensively compressible coiled thrust spring 27 which is seated in a socket 28 in the end block 18.

A lipstick 29 carried by the carrier 26 is pressed against the turn of the applicator band 25 beneath its driving roller 21, by the spring 27. The rubber roller 21 thus forms a backing for the band 25 where the lipstick 29 is pressed against the latter. This lipstick is of substantially the same width, between the walls 16 and 17, as the width of the band 25, so as thereby to make contact with the latter across its full width.

The operation of the above described device of my invention is as follows:—

With the outer casing parts forming a closed housing as shown in Figure 1 the band 25 and lipstick 29 are prevented from becoming too dry and from being contaminated by dust, or otherwise, while also the device presents an attractive appearance.

When the protective cover cap 15 has been removed, if now the finger wheel 24 is moved upwardly, the inner frame member will be moved upwardly, thereby causing the finger 20, with the applicator band 25 thereon, to protrude beyond the open upper end of the main outer casing part, as shown, in Figures 2, 3 and 4, where it will be maintained by the frictional engagement of the inner frame member within the resilient outer casing part.

If now, or at any time, the finger wheel 24 is rotated, it will transmit rotation to the driving roller 21, the frictional engagement of which with the applicator band 25 will impart circuitous traveling movement to the latter. The pressure of the lipstick 29 against the moving band 25, with the latter there backed by the rotating rubber roller 21, will cause the friction of this band with the lipstick, to remove lipstick material from the latter.

Such removed material will adhere to and form a coating upon and completely covering the outer surface of the band **25**. As the band **25** continues its travel, its coated portion will pass upwardly and outwardly along one side of the finger **20**, over its rounded tip end, and downwardly along its other side to whatever extent may be desired.

The lipstick material carried upon the endless band **25** may then be easily and conveniently applied to the lips. In doing this, the band **25** serves as an applicator, the finger block **20** serves as a supporting carrier for this applicator band, while the elongated outer casing part forms a convenient handle, as will be particularly clear from Figure 2.

The finger **20**, having the particular shape shown, has been found to be highly effective, both for guiding the band **25** and for the use of the latter as an applicator and spreader of the lipstick material. The beveled corners of the finger tip prevent liability of the metal coming in contact with the lips.

It has been found that the lipstick material can be applied to the lips much more evenly with my device than by using a lipstick directly upon the lips. Also the applied material can be evenly spread over the lips by means of my device, by then making use of a portion of the band **25** from which most of the lipstick material has been removed by its use. Neither a natural finger nor any separate wiper or spreader is required.

After use of the device, the finger wheel **24** is moved downwardly, retracting the finger **20** and band **25** into the main casing part, where they will be maintained by frictional engagement of the slidable inner frame member with the outer casing part.

The lipstick **29**, when worn out, may be conveniently replaced by a new lipstick merely by entirely withdrawing the slidable inner structure from the outer casing, as shown in Figure 5.

It is believed to be now evident that the device of my invention possesses valuable attributes by reason of which it constitutes a distinct advance in the art to which it relates.

In the specification and claims, such terms as "laterally", "front", "rear", "upwardly", "downwardly", "upper", "lower", "top", "bottom", or similar expressions, refer merely to the position of the device as shown in the drawing, since it is obvious that the device may have various different positions.

It is obvious that various modifications may be made in the construction shown in the drawing and above particularly described, within the principle and scope of my invention as defined in the appended claims.

I do not specifically limit myself to the particular size, shape, number, arrangement or material of parts as shown and described, as these are given simply as a means for clearly explaining the device of my invention.

What I claim is:—

1. In a lipstick container, in combination, an endless applicator element, means adapted to move said element in an endless path, and resilient means adapted to press a lipstick against said element.

2. In a lipstick container, in combination, an endless flexible band guided for longitudinal traveling movement and forming an applicator for lipstick material, operating means capable of moving said band, and resilient means adapted to press a lipstick against said band.

3. In a lipstick container, in combination, an endless flexible band forming an applicator for lipstick material, means adapted to guide said band for longitudinal traveling movement in an endless elongated path, operating means at one of the elongations of said path capable of moving said band, and resilient means adapted to press a lipstick against said band at the said one elongation of its said path.

4. In a lipstick container, in combination, an endless flexible band forming an applicator for lipstick material, an obtruding finger having an outer end over which an outer bight of said band is guided, with stretches of said band passing along opposite side faces of said finger, a frictionally acting driving roller inwardly from the inner end of said finger and part way around which an inner bight of said band passes, resilient means adapted to press a lipstick against said band where its inner bight is backed by said roller, and operating means capable of transmitting rotation to said roller and thereby causing the latto impart circuitous traveling movement to said band.

5. In a lipstick container, in combination, an endless flexible band forming an applicator for lipstick material, an obtruding finger having an outer end over which an outer bight of said band is guided, with stretches of said band passing along opposite side faces of said finger, elongated frame plates forming guides for the opposite edges of said band and between the outer end portions of which the inner end portion of said finger is fixed, said plates being extended inwardly beyond the inner end of said finger, a frictionally acting driving roller journaled between said plates inwardly from the inner end of said finger and part way around which an inner bight of said band passes and by which circuitous traveling movement can be imparted to said band, a finger wheel having a shaft connected to said roller through one of said plates and by means of which said roller can be rotated, a connecting piece joining the inner ends of said plates, a lipstick-carrier slidable longitudinally between said plates and adapted to carry a lipstick directed toward said roller, and a thrust spring interposed between said inner end piece and said carrier and adapted to press a lipstick in said carrier against the inner bight of said band.

6. In a lipstick container, in combination, an endless flexible band forming an applicator for lipstick material, an obtruding finger which tapers outwardly and terminates in a relatively thin rounded tip end over which an outer bight of said band is guided, with stretches of said band passing along opposite side faces of said finger, a frictionally acting driving roller inwardly from the inner end of said finger and part way around which an inner bight of said band passes, resilient means adapted to press a lipstick against said band where its inner bight is backed by said roller, and operating means capable of transmitting rotation to said roller and thereby causing the latter to impart circuitous traveling movement to said band.

7. In a lipstick container, in combination, an elongated casing having an open end and a closed end and a longitudinal slot, a frame member slidable longitudinally with said casing, a finger carried by said frame member and adapted to be projected from the open end of said casing by sliding movement of said frame member, an endless flexible band having an outer bight guided over the outer end of said finger and forming an applicator for lipstick material, with stretches of

said band passing along opposite side faces of said finger, a frictionally acting driving roller carried by said frame member inwardly from the inner end of said finger and part way around which an inner bight of said band passes and by which circuitous traveling movement can be imparted to said band, an exterior finger wheel carried by said frame member to move therewith and connected through said casing slot with said roller to rotate the latter, and resilient means carried by said frame member and adapted to press a lipstick against the inner bight of said band.

8. In a lipstick container, an elongated frame member, a finger carried by and obtruding beyond an end of said frame member, an endless flexible band forming an applicator for lipstick material having an outer bight carried upon the outer end of said finger, with stretches of said band passing along opposite side faces of said finger, a frictionally acting driving roller carried by said frame member inwardly from the inner end of said finger and part way around which an inner bight of said band passes, a finger wheel connected with said roller to rotate the latter thereby to impart circuitous traveling movement to said band, a thrust spring adapted to press a lipstick against the inner bight of said band, and an abutment member for said spring carried by the inner end of said frame member.

9. In a lipstick container, an elongated outer enclosing casing, a finger adapted to protrude from within beyond an end of said casing, an endless flexible band forming an applicator for lipstick material having an outer bight carried upon the outer end of said finger, with stretches of said band passing along opposite side faces of said finger and into the end of said casing, a frictionally acting driving roller within said casing inwardly from the inner end of said finger and which carries thereon an inner bight of said band, a finger wheel at the outside of said casing and connected with said roller to rotate the latter thereby to impart circuitous traveling movement to said band, resilient means within said casing adapted to press a casing-contained lipstick against the inner bight of said band, and a protective cover cap for the applicator end of said casing.

10. In a lipstick container, an elongated frame member, a finger carried by and obtruding beyond an end of said frame member, an endless flexible band forming an applicator for lipstick material having an outer bight carried upon the outer end of said finger, with stretches of said band passing along opposite side faces of said finger, a frictionally acting soft rubber driving roller carried by said frame member inwardly from the inner end of said finger and part way around which an inner bight of said band passes, a finger wheel connected with said roller to rotate the latter thereby to impart circuitous traveling movement to said band, a thrust spring adapted to press a lipstick against the inner bight of said band, and an abutment member for said spring carried by the inner end of said frame member.

11. In a lipstick container, an elongated frame member, a finger carried by and obtruding beyond an end of said frame member, said finger being tapered outwardly along opposite sides and terminating in a relatively thin rounded outer end, an endless flexible band forming an applicator for lipstick material having an outer bight carried upon the outer end of said finger, with stretches of said band passing along opposite side faces of said finger, a frictionally acting driving roller carried by said frame member inwardly from the inner end of said finger and part way around which an inner bight of said band passes, a finger wheel connected with said roller to rotate the latter thereby to impart circuitous traveling movement to said band, a thrust spring adapted to press a lipstick against the inner bight of said band, and an abutment member for said spring carried by the inner end of said frame member.

12. In a lipstick container, an elongated frame member, a finger carried by and obtruding beyond an end of said frame member, an endless flexible band forming an applicator for lipstick material having an outer bight carried upon the outer end of said finger, with stretches of said band passing along opposite side faces of said finger, said frame member forming guides for the opposite edges of the inner portion of said band, a frictionally acting driving roller carried by said frame member inwardly from the inner end of said finger and part way around which an inner bight of said band passes, a finger wheel connected with said roller to rotate the latter thereby to impart circuitous traveling movement to said band, a thrust spring adapted to press a lipstick against the inner bight of said band, and an abutment member for said spring carried by the inner end of said frame member.

13. In a lipstick container, in combination, an endless flexible band forming an applicator for lipstick material, an obtruding finger which tapers outwardly and terminates in a relatively thin rounded tip end over which an outer bight of said band is guided, with stretches of said band passing along opposite side faces of said finger, the opposite tapering side faces of said finger being concavely curved along their length so as to provide clearance for said band, a frictionally acting driving roller inwardly from the inner end of said finger and part way around which an inner bight of said band passes, resilient means adapted to press a lipstick against said band where its inner bight is backed by said roller, and operating means capable of transmitting rotation to said roller and thereby causing the latter to impart circuitous traveling movement to said band.

14. In a lipstick container, in combination, an elongated casing having an open end and a closed end and a longitudinal slot, a frame member slidable longitudinally within said casing, a finger carried by said frame member and adapted to be projected from the open end of said casing by sliding movement of said frame member, an endless flexible band having an outer bight guided over the outer end of said finger and forming an applicator for lipstick material, with stretches of said band passing along opposite side faces of said finger, a frictionally acting driving roller carried by said frame member inwardly from the inner end of said finger and part way around which an inner bight of said band passes and by which circuitous traveling movement can be imparted to said band, an exterior finger wheel carried by said frame member to move therewith and connected through said casing slot with said roller to rotate the latter, said slot being extended out through the open end of said casing and thus providing for the withdrawal of said frame member from said casing, and resilient means carried by said frame member and adapted to press a lipstick against the inner bight of said band.

GERARD J. DANCO.