July 29, 1941. H. KARTON 2,251,136

LIPSTICK HOLDER

Filed Oct. 26, 1938

Fig. 1.

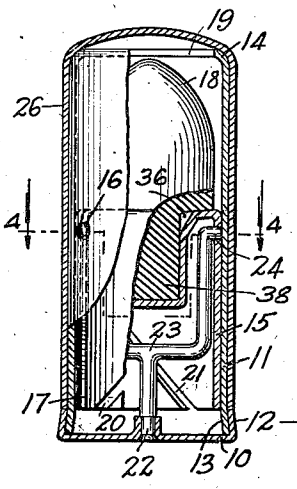


Fig. 2.

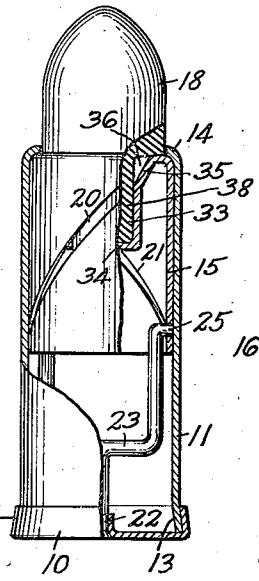


Fig. 3.

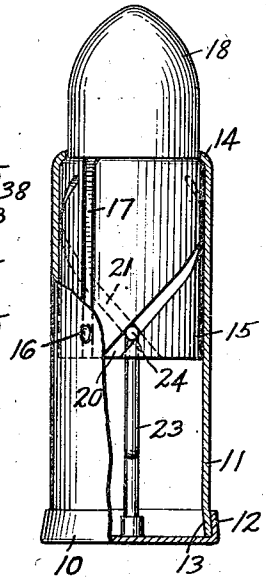


Fig. 4.

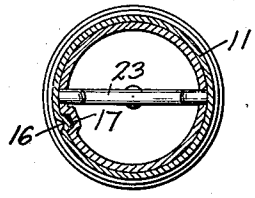


Fig. 5.

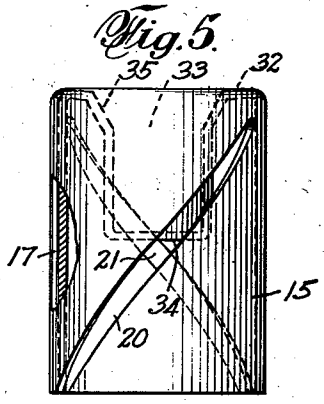


Fig. 6.

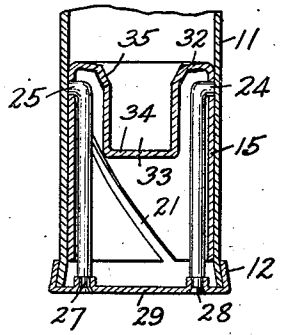
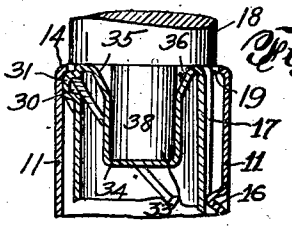


Fig. 7.



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LIPSTICK HOLDER

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Application October 26, 1938, Serial No. 236,992

15 Claims. (Cl. 206—56)

This invention relates to lipstick holders and particularly to the type wherein the lipstick is projected from the holder bodily and without any rotation thereof on the rotation of a suitable capping element.

In lipstick holders heretofore in common use, a separate carrier is provided for the stick, said carrier having pins operating in the helical grooves of a sleeve and in the longitudinal groove of a shell surrounding the sleeve, though sometimes the helical grooves are made in the shell and the longitudinal groove in the sleeve, the helically grooved part being customarily rolled from a flat sheet. Such holders require at least three operating parts beside the outer cover and are, therefore, comparatively expensive and of considerable weight. Furthermore, when the carrier is projected beyond the holder after the stick is worn down, the edges of the carrier are quite likely to cut or injure the lips of the user. The sharp edge of the carrier surrounding its open top end also cuts the stick surface when the stick is first inserted into the carrier, making it necessary to wipe off the resulting shavings or cuttings before the holder is saleable. The pins on the carrier also interfere or contact with the lipstick, and owing to the fact that the sleeve or helically grooved shell is usually rolled from a flat sheet and is consequently springy, the pins frequently come out of the helical grooves and ride inside of the cylindrical surface of the sleeve or shell thereby rendering the holder inoperative to move the lipstick.

My invention therefore contemplates the provision of a light-weight holder wherein a single member serves the triple function, first of a support or carrier for the lipstick, second of a helically grooved sleeve, and third of a primary part of the means for preventing rotation of the lipstick while it is being projected from the holder and retracted thereinto, and of the means for projecting and retracting the stick from or into the holder. The member is further designed to make it impossible for the lipstick carrier to cut the lips of the user when the stick is worn down, and to prevent shavings or cuttings resulting from the insertion of the stick into the member from reaching the surfaces of the holder, and is so constructed as to be comparatively rigid and to prevent the operating pins from leaving the grooves of the member or from interfering with the lipstick in any way.

My invention further contemplates the provision of a lipstick holder wherein a minimum number of parts are used, which parts are of such nature that they may be comparatively inexpensively made and assembled.

My invention further contemplates the provision of a one-piece combined sleeve and carrier in a lipstick holder closed by a cap at one end and open at the other end, and so constructed as to render possible the use of a lipstick of comparatively large diameter for a holder or case of a given diameter.

The various objects of the invention will be clear from the description which follows and from the drawing, in which,

Fig. 1 is a vertical section of a completely assembled holder embodying the invention, certain of the parts being broken away to show the interior structure and the thicknesses of the parts being exaggerated for clearness.

Fig. 2 is a similar view of the same, with the outer cover omitted and showing the lipstick projected to its maximum extent from the holder.

Fig. 3 is a combined side view and vertical section of the same.

Fig. 4 is a horizontal section taken on the line 4—4 of Fig. 1.

Fig. 5 is a front elevation of the longitudinally movable combined lipstick carrier and sleeve.

Fig. 6 is a fragmentary vertical section of the holder in which a modified form of the sleeve-operating pins are employed.

Fig. 7 is a fragmentary vertical section of a modified form of the sleeve, wherein each of the helical grooves is formed with a bottom thereon.

In the practical embodiment of the invention which I have shown by way of example, the manually rotatable cap 10 is arranged at that end of the holder which I will hereinafter refer to as the bottom, the cap being formed from solid rod stock or from sheet material as desired. As shown, the circumferential flange 12 of the cap is bent inwardly against the lower end 13 of the shell 11 in such a manner as to surround it and to retain it against relative longitudinal or separating movement while permitting relative rotation of the cap and the shell. The flange 12 may be preformed with a taper and the lower end 13 of the shell tapered or spread after it is inserted into the flange, or the lower end 13 may be preformed with a taper and the upright flange 12 bent thereagainst. In either case, the tapered parts 12 and 13 prevent removal of the shell from the cap.

The upper end 14 of the shell is bent inwardly to a slight extent about equal to the thickness of the sleeve 15 to form a suitable stop as 14, preventing removal of the sleeve from with-

in the shell 11. While the shell is open at its top and bottom, its lateral surface is imperforate. Said sleeve 15 is preferably made of a single piece of material and is designed to move vertically within the shell, means being provided for preventing rotation of said sleeve on the rotation of the cap 10, and to translate the rotation of the cap into longitudinal motion.

Said means comprises the indent or inwardly projecting member 16 on the shell, entering the longitudinal vertical groove 17 of the sleeve whereby only longitudinal movement of the sleeve in the shell is permitted. The groove 17 is preferably made by indenting a portion of the sleeve, said groove being preferably throughout the entire length of the sleeve.

The shell 15 is given a longitudinal movement to project the lipstick 18 through the open end 19 of the shell and to retract it through said opening within the shell in response to the rotation of the cap 10 in the proper direction. For this purpose, the shell is provided with a pair of similar helical grooves 20, 21, the groove 20 terminating at its lower end at one side of the longitudinal groove 17 (Fig. 3) while the upper end of the groove 21 terminates on the other side of the groove 17. Each of the helical grooves extends around about half the lateral surface of the shell, that is, it subtends an angle of somewhat less than 180°. Preferably, each of the grooves 20 and 21 is open at its bottom and does not extend up to the upper end of the shell but terminates below said upper end to form a closed top at the end of the groove.

Fixed to the cap 10, as by the insertion of the end 22 thereof in a suitable opening in said cap, is the bifurcated member 23, provided with horizontally extending pins 24, 25 entering the respective grooves 20 and 21 of the shell. It will be seen that on rotation of the cap 10, the member 23 is also rotated with it but that the shell 11 is not. As the pins 24, 25 rotate in the grooves 20, 21 of the sleeve, the resulting cam action causes longitudinal or vertical movement of the sleeve 15, rotational movement thereof being prevented by the engagement of the projection 16 of the shell with the walls of the groove 17 of the sleeve, the shell being held by the fingers of the user against rotation with the cap.

When the cap is rotated in a counter-clockwise direction, as viewed in Figs. 1, 2 and 3, the sleeve 15 moves upwardly until the pins 24, 25 approach the lower ends of the grooves 20, 21, at which time the upper end of the sleeve engages the bent stop portion 14 of the shell and further outward movement thereof is prevented. When the cap 10 is turned in the opposite or clockwise direction, the pins during their rotation cause the grooves 20, 21 and the sleeve 15 to move downwardly within the shell and to retract the lipstick. Such movement is continued until the pins 24, 25 reach the upper closed ends of the grooves 20 and 21, or until the bottom of the sleeve engages the cap, whichever is preferred. It will be understood that by changing the directions of the helical grooves, counter-clockwise rotation of the cap may be used to cause retraction of the lipstick and clockwise rotation to cause projection thereof. In the retracted position of the parts, a suitable outer cover 26 frictionally fitted about the shell 11 may serve to enclose the operating members.

In the modified form of the invention shown in Fig. 6, the pins 24 and 25 instead of extending from a bifurcated member are each independently supported by the cap 29, being fixed thereto by separate connections as 27, 28.

In the modified form of the helical grooves 30 shown in Fig. 7, said grooves may be made similarly to the groove 17, that is, in the form of indents, being each provided with a closed bottom as 31 throughout its length, the bottom joining the outwardly extending side walls of the groove. In this form of the invention, the stop 14 engages the side walls of the groove when the sleeve is in its uppermost position. The sleeve is also made of lesser diameter than the inside diameter of the shell and hence may pass into or through the open upper end of the shell so that the entire lipstick is available to the user even when worn down to the top of the sleeve. The bottom wall 31 of the groove engages the inner surface of the shell and guides the sleeve in the longitudinal movement thereof.

As has been hereinbefore indicated, the separate lipstick carrier heretofore customarily employed in lipstick holders has been entirely omitted. Instead, the shell 15 is so designed as to perform the functions of a carrier and a part of the lipstick-projecting means. To accomplish this purpose, the upper end of the shell is closed by the downwardly inclined wall 32, which is provided with a central recess 33 preferably in the form of a cup closed by the bottom wall 34. Where the wall 32 meets the cylindrical wall of the cup 33, a conical portion 35 is provided, which when the stick is inserted into the cup provides a space or pocket 36 into which cuttings or shavings from the stick fall and are retained against possibility of being seen or of reaching the outside of the case or holder. Or, the shavings may fall into the cup 33.

The lipstick 18 is reduced in diameter at its lower end 38 to fit snugly into the cup, said cup serving as a centering and guide device to insure the proper insertion of the stick thereinto without undue manipulation or the formation of an excessive amount of shavings or cuttings from the stick. In other words, the conical part 35 guides the reduced end 38 of the stick into its proper position even if the stick is not held in exact longitudinal alignment with the cup. Sharp edges being eliminated from the cup and other parts of the carrier sleeve, the shavings resulting from the assembly of the stick and cup are reduced to a minimum. Furthermore, any shavings resulting from the assembly tend to remain in the space 36 or in the cup 33 and do not reach the surface of the stick or the holder, thereby making it unnecessary to wipe the holder as must be done with prior devices. By the use of a cup, the lipstick is also kept out of possible contact with any of the operating parts and hence cannot interfere therewith. It also becomes possible to use for a holder of any given diameter a stick of greater diameter than in use heretofore.

It will therefore be seen that I have provided a simple, light-weight and efficient carrier which may be economically made and assembled and is well adapted for the purpose for which it is intended and meets the requirements of practical use.

While I have shown and described certain specific embodiments of my invention, I do not wish to be understood as limiting myself thereto, but intend to claim the invention as broadly as may be permitted by the state of the prior art and the scope of the appended claims.

I claim:

1. In a lipstick holder, a cylindrical inner sleeve provided with a helical groove open at the bottom and closed at the top and having a longitudinal guide groove therein in spaced relation to the ends of said helical groove, said sleeve being open at its bottom and having a closed top, a central cup in said top adapted to have the end of a lipstick inserted thereinto, an imperforate outer shell open at its top and bottom and having a projection thereon entering the guide groove of the sleeve, a cap closing the lower end of the shell and secured and rotatable relatively thereto, and a pin fixed to the cap and rotatable in said helical groove whereby rotation of the cap and the pin causes longitudinal movement only of the sleeve and the lipstick carried thereby, rotary movement of said sleeve being prevented by said projection.

2. In a lipstick holder, a relatively rotatable cap, a one-piece shell held by the cap against separation therefrom, a sleeve within the shell, means for holding the sleeve against rotation relatively to the shell, said sleeve having an inwardly extending longitudinal groove in the outer surface thereof, said means including a projection on the shell entering said longitudinal groove, said sleeve having an outwardly extending helical groove in the inner surface thereof, a pin fixed to and rotatable with the cap and arranged in the interior of the sleeve, said pin having an outwardly extending transverse free end portion entering the helical groove, and a transverse wall on the sleeve intermediate the ends of the sleeve and forming a compartment at one end of the sleeve for the reception of a lipstick.

3. In a lipstick holder, a one-piece sleeve open at its top and bottom and having a transverse wall below its top forming a top compartment in the sleeve for the reception of a lipstick, said sleeve having a helical groove therein, a shell surrounding the sleeve, cooperating means on the shell and sleeve for preventing relative rotation thereof, and means for moving the sleeve longitudinally in the shell in either direction comprising a cap rotatable relatively to and held to the shell, and a pin in the interior of the sleeve fixed to the cap and terminating in a transversely arranged portion entering the helical groove of the shell.

4. In a lipstick holder, a combined sleeve and lipstick carrier comprising a cylindrical member open at its bottom and provided with a cup at its top, the inner surface of said sleeve having a pair of helical grooves therein, the upper end of one groove terminating in circumferential spaced relation to the lower end of the other groove, there being a vertical groove between the upper end of one of the helical grooves and the lower end of the other.

5. In a lipstick holder, a combined sleeve and lipstick carrier comprising a one-piece cylindrical member open at its bottom, a closed top on the member provided with a central indented cup, the lateral surface of said sleeve having a pair of helical grooves therein each subtending an angle less than 180°, the upper end of one groove terminating in circumferential spaced relation to the lower end of the other groove, there being a vertical groove between the upper end of one of the helical grooves and the lower end of the other, a shell surrounding the member, cooperating means on the shell and the member for maintaining said members against relative rotational movement but permitting relative longitudinal movement thereof, and means including a cap encompassing the lower end of the shell and pins fixed to the cap and entering the helical grooves for moving the sleeve longitudinally in the shell.

6. In a lipstick holder having an imperforate shell open at both ends and a cap closing one end of the shell and rotatable relatively thereto, means longitudinally movable within the shell for projecting and retracting a lipstick from and within the shell comprising a cylindrical sleeve open at its bottom and provided with a pair of helical grooves and with a longitudinal groove between the helical grooves, a closed top on the sleeve having a depressed cup-like portion, the upper part of said portion tapering outwardly and upwardly, a stop bend at the upper end of the shell adapted to engage the uper end of said sleeve to limit the movement thereof in one direction, an inwardly projecting member on the shell entering the longitudinal groove of the sleeve, and fixed elements on the cap entering the helical grooves of the sleeve.

7. In a lipstick holder, a sleeve having a closed top provided with a cup-like depression for the reception of a lipstick and having a pair of spaced helical grooves in the lateral surface thereof and having a longitudinal groove between the upper end of one of the helical grooves and the lower end of the other.

8. In a lipstick holder, a cylindrical sleeve having a closed top provided with a cup-like depression for the reception of the lipstick and having a pair of spaced helical grooves in the lateral surface thereof and having a longitudinal groove between the upper end of one of the helical grooves and the lower end of the other, a shell surrounding the sleeve, an inward projection on the shell entering the longitudinal groove, and means rotatable relatively to the shell and the sleeve and cooperating with the helical grooves for moving the sleeve longitudinally in the shell.

9. In a lipstick holder, a cylindrical sleeve having an open bottom and a cup at its top to receive a lipstick and having a longitudinal groove in its outer surface and also having a pair of helical grooves extending outwardly in its inner surface, a shell surrounding the sleeve, means on the shell engaging the longitudinal groove of the sleeve and preventing relative rotation of the sleeve and shell, a cap mounted revolubly on the lower end of the shell and outwardly extending pins within the sleeve and carried by the cap and revoluble therewith and engaging the helical grooves of the sleeve for moving said sleeve longitudinally in the shell.

10. In a lipstick holder, a one-piece cylindrical combined carrier and sleeve having a helical groove extending outwardly from its inner surface and having a longitudinal groove extending inwardly from its outer surface, said outer surface being cylindrical substantially throughout, one end of said sleeve being provided with means integral therewith for holding a lipstick.

11. In a lipstick holder, a one-piece combined carrier and sleeve having an inwardly extending longitudinal groove in the outer surface thereof, said outer surface being cylindrical substantially throughout, a shell surrounding the combined carrier and shell, means on the shell entering the groove, and means cooperating with the sleeve and rotatable relatively to the sleeve and shell for moving the sleeve longitudinally in the shell, said sleeve having an outwardly extending helical groove in the inner surface thereof cooperating with said means.

12. In a lipstick holder, a one-piece combined cylindrical carrier and shell member having a helical groove and a longitudinal groove therein, and provided with means for holding a lipstick, said means comprising a closed top on the member having a recess therein, a convexly curved portion at the juncture of the cylindrical surface of the member and said closed top, and an upwardly and outwardly tapered portion at the upper end of the recess for the reception of cuttings and shavings resulting from the insertion of a lipstick into the recess.

13. In a lipstick holder, a one-piece combined cylindrical carrier and sleeve member having a helical groove and a longitudinal groove therein, and provided with means for holding a lipstick, said means comprising an integral top portion on the member having a recess therein, a shell open at its top and having a projection entering the longitudinal groove, an inwardly extending bend at the top edge of the shell adapted to engage the top of the sleeve in the extended position of the sleeve, and rotatable means at the lower end of the shell and entering the helical groove of the sleeve for moving the sleeve longitudinally in the shell, said means including a transversely extending pin in the interior of the sleeve.

14. In a lipstick holder, the combination with a lipstick having a reduced end of a one-piece cylindrical member constituting a combined carrier for the lipstick and an operating sleeve, said member being open at its bottom and closed at its top, there being a central cup-like depression in said top for the reception of said reduced end of the lipstick, the upper end of the wall of the depression being in spaced relation to the reduced end to form a pocket between said reduced end and said upper wall for guiding the reduced end into the depression and also for the reception of shavings and cuttings resulting from the insertion of the reduced end into the depression.

15. In a lipstick holder, an inner combined carrier and sleeve member provided with integral means at its upper end for the direct reception of the end of a lipstick, said member being provided with helical outwardly extending grooves on its inner surface and with a longitudinal groove on its outer surface, an outer shell having a projection entering the longitudinal groove, a cap for the shell mounted for rotation relatively thereto, and a pair of pins fixed to the cap and rotatable therewith and entering the helical grooves for moving the sleeve longitudinally in the shell.

HARRY KARTON.