Sept. 1, 1942. A. FEIB 2,294,656

LIPSTICK HOLDER

Filed March 3, 1942

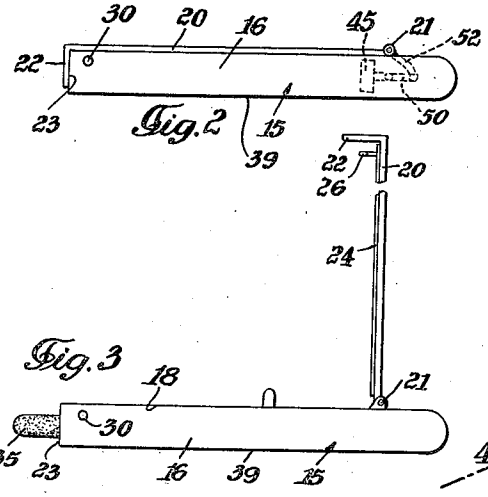


Fig. 2

Fig. 3

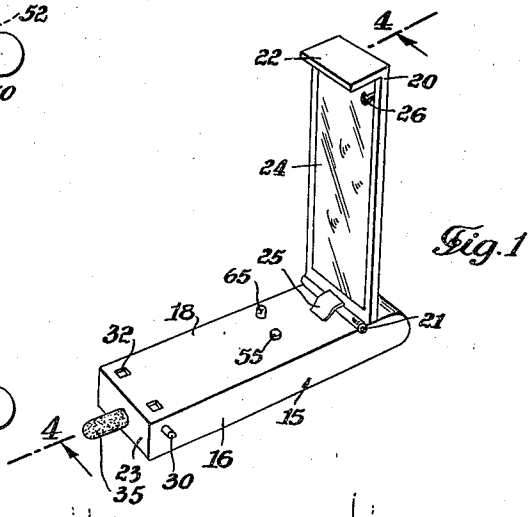


Fig. 1

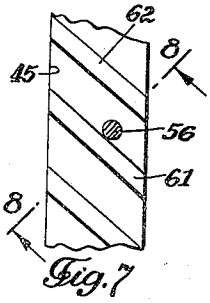


Fig. 7

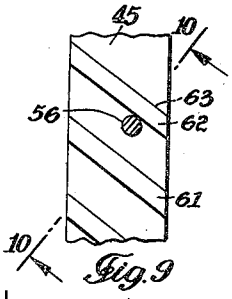


Fig. 9

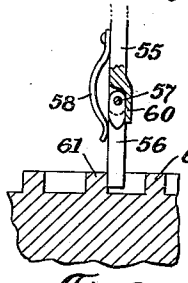


Fig. 8

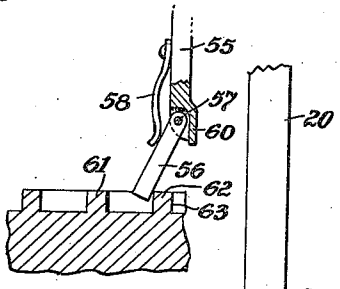


Fig. 10

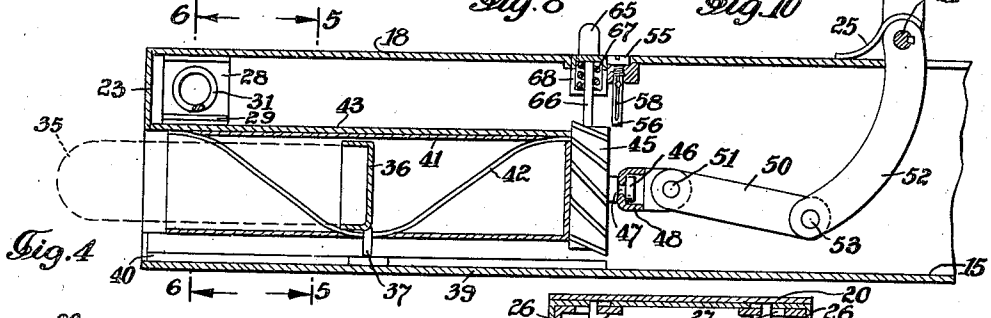


Fig. 4

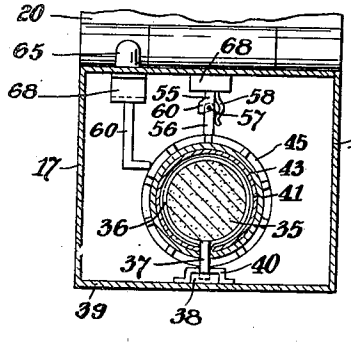


Fig. 5

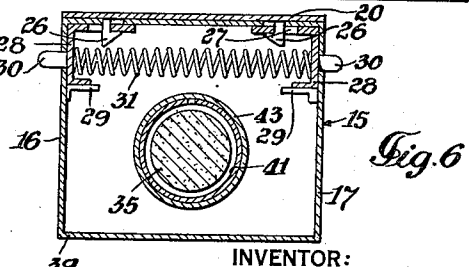


Fig. 6

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LIPSTICK HOLDER

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Application March 3, 1942, Serial No. 433,203

8 Claims. (Cl. 132—79)

This invention relates to lipstick holders and more particularly to a combined lipstick and mirror arrangement.

In accordance with the invention I provide a cosmetic carrier, such as a lipstick, slidably arranged in a casing. The casing has a cover bearing a mirror which opens upon depression of one or two push buttons. The mirror on the cover of the casing preferably is a reducing mirror so that a person holding the lipstick arrangement of the invention can see her face. The lipstick reciprocates in the casing, and upon opening of the lid the lipstick is caused to project from the casing.

The lipstick holder of the invention has automatic means for advancing the lipstick a greater distance from the casing each time the lid is opened. In other words, while the lipstick reciprocates in the casing and projects therefrom on opening of the lid, it is advanced a slightly larger distance each time the lid is opened, in order to compensate the used-up portion of the lipstick. Furthermore, hand operated means are provided for retracting the lipstick into the casing if it should project too far therefrom.

The lipstick holder of the invention is easy to operate with one hand. The cover can be opened by depressing two push buttons. When the lid is opened the person can see herself in the mirror and can apply the lipstick to her lips. Besides, the lipstick is automatically advanced step by step upon opening of the lid so that it always projects about the same distance from its casing. Hence, the wear of the lipstick is automatically compensated.

It is accordingly an object of the present invention to provide a novel lipstick holder having a pivoted lid bearing a mirror.

Another object of the invention is to provide a lipstick holder which is automatically expelled from its casing upon opening the lid thereof.

Still another object of the invention is to provide a lipstick holder reciprocating in a casing upon opening and closing of the lid and which is automatically advanced a larger distance each time the casing lid is opened.

A further object of the invention is to provide an improved lipstick of the type referred to including a hand operated means for retracting the lipstick if it should project too far out of the casing when the lid is opened.

These and further objects of the invention will become more apparent in the following description of a preferred embodiment thereof illustrated in the drawing, wherein:

Fig. 1 is a view in perspective of the lipstick holder of the invention illustrated in its open position.

Fig. 2 is a side view of the lipstick holder in the closed position.

Fig. 3 is a side view of the lipstick holder in the open position of Fig. 1.

Fig. 4 is a longitudinal cross-sectional view on enlarged scale taken on the line 4—4 of Fig. 1 to illustrate the lipstick expelling and advancing mechanism.

Figs. 5 and 6 are cross-sectional views taken on the lines 5—5 and 6—6, respectively, of Fig. 4.

Figs. 7 and 9 are top plan views of the helical gear used for advancing the lipstick holder.

Figs. 8 and 10 are sectional views taken on the lines 8—8 of Fig. 7 and 10—10 of Fig. 9, respectively.

Referring to the drawing and more particularly to Figs. 1 to 6, the lipstick holder of the invention comprises a casing 15 having side walls 16, 17 and a top wall 18. Cover 20 is pivoted to casing 15 by means of a pintle 21. Cover 20 has a depending portion 22 covering front face 23 of housing 15 when the lid is closed. Cover 20 serves as a panel for mirror 24 which is a reducing or convex mirror. Spring 25 arranged about pintle 21 presses against top wall 18 of casing 15 and urges cover 20 into the open position of Fig. 1.

Cover 20 bears two hook-shaped latches 26, 26 for releasably securing cover 20 to casing 15. Latches 26 are engageable with cut outs 27 in U-shaped members 28. Members 28 are slidably supported in casing 15 by brackets 29, 29 on walls 16 and 17, respectively. Push buttons 30 are secured to members 28. Spring 31 presses members 28 against the walls 16 and 17 of housing 15 as shown in Fig. 6. Top wall 18 of housing 15 has two cut outs 32 through which latches 26 extend when lid 20 is closed. By depressing push buttons 30 with two fingers of one hand members 28 are pressed towards each other against the action of spring 31. Now latches 26 register with cut-outs 27 in members 28 and spring 25 is free to rotate cover 20 into the open position of Fig. 1.

Casing 15 bears a lipstick 35 projecting through an opening in front of face 23 as shown in Figs. 1, 3 and 4. Lipstick 35 is secured to cup-shaped lipstick holder 36. Holder 36 bears a pin 37 extending into longitudinally extending slot 38 in guideway 40. Guideway 40 is secured to bottom wall 39 of housing 15. Lipstick 35 and holder 36 are slidably arranged in sleeve 41.

Sleeve 41 has a helically extending guide slot 42 through which pin 37 extends as clearly shown in Figs. 4 and 5. Sleeve 41 is guided in tube 43 secured to front face 23 and open at the bottom as illustrated in Fig. 6. Sleeve 41 and tube 43 have a frictional contact with each other so that sleeve 41 can not rotate freely.

Helical spur gear 45 is secured to sleeve 41. It bears a projecting pin 46 with a reduced portion 47 into which engages fork 48. Fork 48 is pivoted to link 50 at 51. Link 50 is pivoted to curved connecting member 52 at 53. Connecting member 52 is integral with or rigidly secured to cover 20 and rotates in unison therewith. It will now be evident that if cover 20 is closed, member 52 will rotate in a counterclockwise direction which causes sleeve 41 with lipstick 35 and holder 36 to slide into housing 15. If push buttons 30 are depressed, lid 20 opens in the manner described hereinabove. This causes a clockwise rotation of connecting member 52, and sleeve 41 is accordingly moved towards the left of Fig. 4.

In accordance with the invention I provide means for rotating helical gear 45 in response to the opening and closing movements of cover 20. Hence, sleeve 41 is rotated simultaneously causing a corresponding movement towards the right or left of lipstick 35. This is due to the fact that pin 37 is advanced or retracted by the rotation of helical guide slot 42 in sleeve 41. In order to accomplish the advancing and retracting movement of lipstick 35 with respect to sleeve 41 I provide a screw 55 countersunk in top wall 18 of casing 15. Screw 55 has a pin 56 pivoted thereto at 57 as shown particularly in Figs. 8 and 10. Spring 58 urges pin 56 against projection 60 of screw 55. Hence, as clearly shown in Figs. 8 and 10, pin 56 can rotate counterclockwise against the action of spring 58, but is prevented from further rotating in a clockwise direction from the position of Fig. 8 due to projection 60.

Opening and closing of cover 20 causes a corresponding reciprocating movement of sleeve 41 and helical gear 45 in the manner described hereinabove. When cover 20 is closed, helical gear 45 moves towards the right of Fig. 4. As shown in Figs. 7 and 8 pin 56 engages with helical ridge 61 on gear 45 because gear 45 is moved towards the right against pin 56. Hence, gear 45 rotates with top coming corresponding to a clockwise rotation of gear 45 as viewed in Fig. 5. Gear 45 has such a width that it completely clears pin 56 when lid 20 is fully open or closed. When cover 20 is opened, gear 45 moves towards the left below pin 56 as illustrated in Figs. 9 and 10. Now pin 56 engages with the next ridge 62 and yields as shown in Fig. 10 due to the action of spring 58. Gear 45 passes below pin 56 which is now in a position to engage the upper surface 63 of ridge 62 when the cover is closed and gear 45 moves towards the right.

Hand operated button 65 is provided in a suitable opening in top wall 18 of casing 15. Button 65 serves to rotate gear 45 in a direction opposite to the one caused by the reciprocating movement of gear 45 underneath pin 56. Push button 65 is connected with L-shaped pusher 66. Spring 67 shown in Fig. 4 is enclosed by housing 68 on top wall 18 and urges push button 65 upwards. By depressing push button 65 pusher 66 engages with one of the teeth of gear 45 and rotates gear 45 in a counterclockwise direction or with top going as viewed in Fig. 4.

The operation of my improved lipstick holder will now be evident. Casing 15 is opened by depressing push buttons 30. This causes rotation of lid 20 in the manner described hereinabove and simultaneously expels lipstick 35. Lipstick 35 may then be applied to the lips of the holder who can view herself in reduced mirror 24. When lid 20 is closed again, the reciprocating movement of sleeve 41 towards the right of Fig. 4 causes rotation of helical gear 45 to advance lipstick 35 away from gear 45. In case the lipstick should project too far from housing 15 when lid 20 is opened push button 65 may be depressed. This causes a rotation of sleeve 41 to retract lipstick 35 against gear 45.

It is to be understood that modifications may be made in practicing the present invention without departing from the broader principles and scope thereof, and accordingly I do not intend to be limited except as set forth in the following claims.

I claim:

1. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, spring means for urging said cover towards its open position, locking means for releasably holding said cover in its closed position, a slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, and mechanism operative upon the reciprocating movement of said sleeve for rotating said sleeve through a predetermined angle for projecting said carrier from said sleeve.

2. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, spring means for urging said cover towards its open position, locking means for releasably holding said cover in its closed position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, and mechanism operative upon the reciprocating movement of said sleeve including a gear secured to said sleeve for rotating said sleeve through a predetermined angle for projecting said carrier from said sleeve.

3. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, a mirror on said cover, spring means for urging said cover towards its open position, locking means for releasably holding said cover in its closed position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, and mechanism operative upon the reciprocating movement of said sleeve for rotating said sleeve through a predetermined angle for projecting

said carrier from said sleeve, said mechanism including a helical gear secured to said sleeve, and a pin projecting from said casing and arranged for engagement with the teeth of said gear.

4. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, a reducing mirror in said cover, a spring for urging said cover towards its open position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, and mechanism operative upon the reciprocating movement of said sleeve for rotating said sleeve through a predetermined angle for projecting said carrier from said sleeve, said mechanism including a helical gear secured to said sleeve, a pin pivoted to and projecting from said casing and arranged for engagement with the teeth of said gear, a stop for preventing rotation of said pin in one direction from its normal position, and a spring urging said pin against said stop.

5. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, spring means for urging said cover towards its open position, locking means for releasably holding said cover in its closed position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, mechanism operative upon the reciprocating movement of said sleeve for rotating said sleeve through a predetermined angle for projecting said carrier from said sleeve, said mechanism including a helical gear secured to said sleeve and a pin projecting from said casing and arranged for engagement with the teeth of said gear and a hand operated device for rotating said gear in a direction for causing retraction of said carrier into said sleeve and against said gear.

6. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, a reducing mirror on said cover, a spring for urging said cover towards its open position, locking means for releasably holding said cover in its closed position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, mechanism operative upon the reciprocating movement of said sleeve for rotating said sleeve through a predetermined angle for projecting said carrier from said sleeve, said mechanism including a helical gear secured to said sleeve, and a pin projecting from said casing and arranged for engagement with the teeth of said gear, and a hand operated device for rotating said gear in a direction for causing retraction of said carrier into said sleeve and against said gear including a push button projecting from said casing, a lever depending from said push button and arranged to engage with the teeth of said gear rotating said gear in a predetermined direction.

7. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, a mirror on said cover, a spring for urging said cover towards its open position, a latch on said cover, two push buttons slidable in said casing and having means for engaging said latches, a spring urging said push buttons into their inoperative position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, and mechanism operative upon the reciprocating movement of said sleeve for rotating said sleeve through a predetermined angle for projecting said carrier from said sleeve, said mechanism including a helical gear secured to said sleeve, a pin pivoted to and projecting from said casing and arranged for engagement with the teeth of said gear, a stop for preventing rotation of said pin in one direction from its normal position, and a spring urging said pin against said stop.

8. A cosmetic holder comprising an exterior casing, a cover pivoted to said casing, a spring for urging said cover towards its open position, locking means for releasably holding said cover in its closed position, a longitudinally extending slotted guideway in said casing, a sleeve rotatably mounted in said casing and having a helical guide slot extending about its surface, a cosmetic carrier slidably mounted in said sleeve, said carrier having a pin extending through the slot in said sleeve into said guideway, a linkage connecting said sleeve with said cover for advancing and retracting said sleeve upon opening and closing of said cover, and mechanism operative upon the reciprocating movement of said sleeve including a helical gear secured to said sleeve and a pin projecting from said casing and arranged for engagement with the teeth of said gear, said linkage including a rod on said gear, said rod having a reduced portion, and a fork forming part of said linkage and engaging with the reduced portion of said rod.

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