

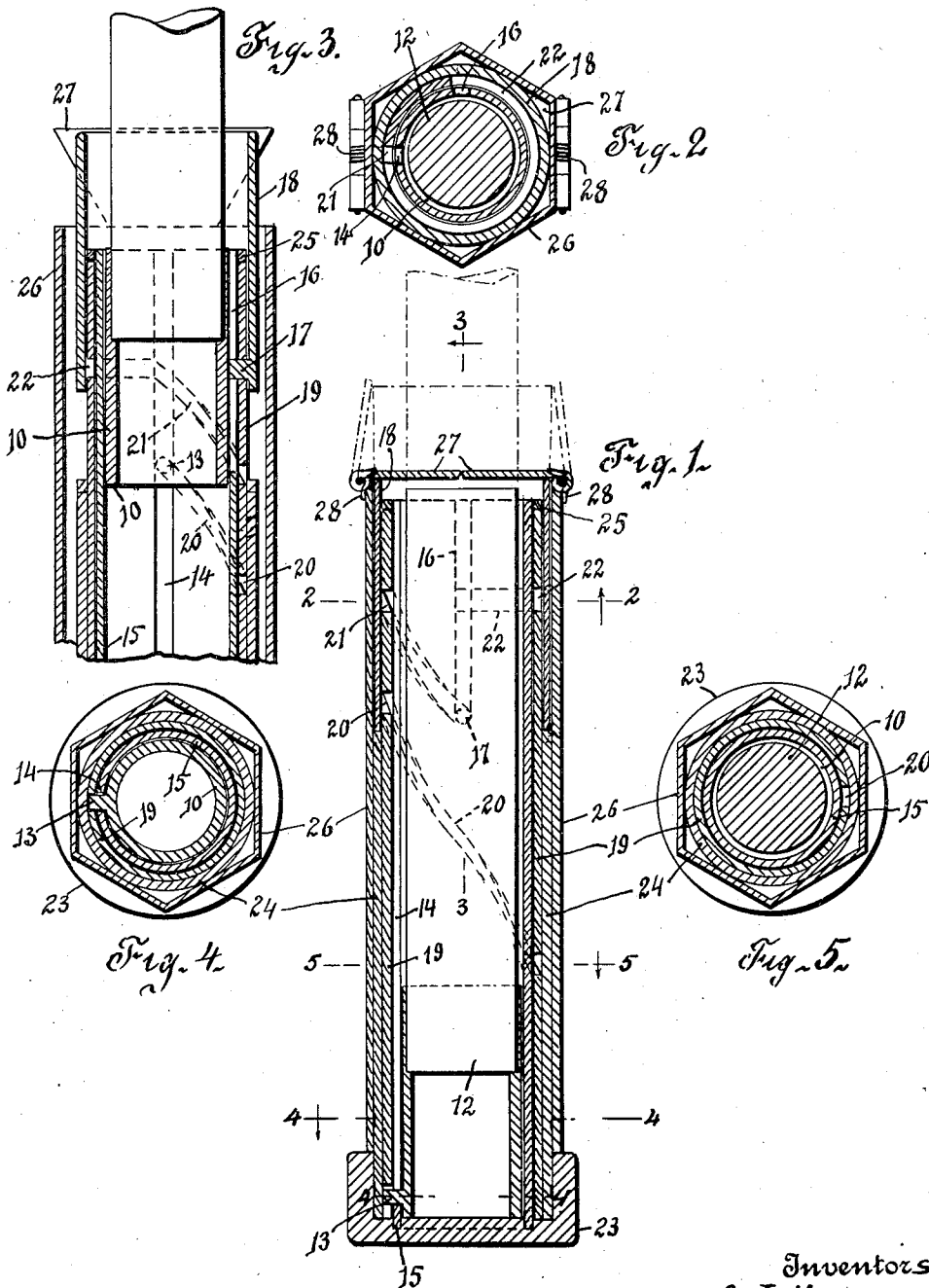
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CONTAINER

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CONTAINER

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Our invention relates to containers suitable for cosmetics or other material capable of being fed forth and back, such for example, as lipstick or similar articles, and it is characterized by a container provided with a cover which opens automatically when the material is fed out of the container and closes when the material is retracted.

Another object of the invention is to provide a container which has few parts, is simple in construction and will not get out of order.

In the appended drawings the container is illustrated for the use of a lipstick but the same may be used for soap or any other suitable material that may be fed in and out of the container.

In the drawings, Figure 1 is a vertical cross-section through the container in the closed position.

Figure 2 is a horizontal section on line 2—2, Figure 1.

Figure 3 is a vertical fragmentary section on line 3—3 Figure 1 when the lipstick is extended out of the casing for use.

Figure 4 is a cross-section on line 4—4—4—4, Figure 1, and

Figure 5 is a cross-section on line 5—5 Figure 1.

In the Figures 10 is a cosmetic carrier, preferably in the shape of a tubular member, the upper portion of which is made to tightly engage the pencil type of cosmetic 12. The carrier 10, preferably on its lower end, is provided with a pin 13 which extends through the longitudinal slot 14 of an actuator 15, tubular in form, and in which the carrier with the cosmetic pencil is housed. The slot 14 extends substantially through the entire length of the actuator. It has another short longitudinal slot 16 at the upper end thereof which receives a pin 17 extending from the cover opener 18, also tubular in shape.

Interposed between the cover opener 18 and the actuator 15 is a tubular member 19 provided with helical slots 20 and 21. The helical slot 20 is engaged by the pin 13 of the carrier and the helical slot 21 is engaged by the pin 17 of the cover opener. The helical slot 20 has a full convolution on the tubular

member and extends from the lowermost point of the actuator slot 14. The helical slot 21 has a quarter of a convolution extending from the lowest part of the slot 16 of the actuator. The helical slot 21 at the upper end of its quarter turn merges into a circular slot 22 which extends through three-quarter of the circumference of the tubular member 19.

The actuator 15 is anchored to a head 23 by means of which it may be rotated. The head is preferably recessed to accommodate the carrier, member 19 and a spacer tube 24 secured to the member 19. This spacer is in turn secured within an outer shell or case 26 which abuts at the lower end against the head 23; thus, the shell, the member 19 and the spacer form a unit. The upper end of the case 26 extends the same height as the upper end of the cover opener when the same is in a retracted position. The actuator 15, at its upper end, has a washer or collar 25 which permits the actuator to revolve but prevents the relative longitudinal movement thereof in the case.

The upper end of the outer shell 26 is provided with hinged covers 27 which are normally maintained closed by springs 28. By rotating the head 23 while holding the outer shell 26, the carrier 10 is forced by the helical slot 20 to rise. Simultaneously, the cover opener 18 is also forced to rise due to the engagement of its pin 17 with the slot of the helix 21, but after a quarter of a revolution of the actuator, the cover opener will enter the circular slot and thereafter will not move longitudinally while the carrier will continue to rise through the other three-quarter revolutions of the actuator. See Figure 3 and dash and dot outline in Figure 1.

The first quarter revolution of the actuator is sufficient to open the covers 27 and thus provide an unobstructed passage for the cosmetic pencil secured to the carrier. In the drawings, the pitch of the helices 20 and 21 are identical but do not have to be such. When the pencil is to be retracted the carrier is revolved in the proper direction and for the first three-quarter of a revolution of the carrier the only longitudinal movement is imparted to the carrier and for the last quarter

of the revolution, both the carrier and the cover are moved longitudinally and therefore the springs 28 of the covers are free to bring the covers to their normal closed position.

5 From the above, it will be seen that in our container, the outward feed of the material and the opening of the cover are concomitant, the carrier and cover opener are both moved longitudinally for the first quarter of their
10 revolution. For the remaining part of their revolution, the only longitudinally movable part is the carrier, the cover opener remaining in its extended position until its pin 17 is brought back into the engagement with its
15 helical slot 21 on the retracting movement of the actuator.

We claim:

1. A container having a cover, cover operating means, a carrier for material movable
20 to and from the cover, an actuator for revolving simultaneously the carrier and cover operating means, and means associated with the container engaging the carrier and cover operating means for imparting a greater
25 longitudinal movement to the carrier than to the cover operating means when they are rotated by the actuator.

2. A container having a cover, a cover opener mounted to revolve and move longitudinally, a carrier for material mounted to
30 revolve and move longitudinally to and from the cover opener, and means associated with the container engaging the carrier and cover opener to impart longitudinal movement to
35 both the carrier and cover opener when they are rotating, said means permitting a greater longitudinal displacement of the carrier than of the cover opener.

3. A container having a cover, a cover opener, a carrier for material, an actuator to
40 move the carrier to and from the cover and means engaging the actuator to the cover opener for operating the same at the initial movement of the carrier to the cover and the
45 end movement of the carrier from the cover.

4. A container having a spring cover normally maintained closed, a carrier for material mounted to move to and from the cover, a cover opener, a single actuator for the cover
50 opener and carrier and means coupling the carrier and the cover opener to the actuator, so that the cover opener is operative at the beginning of the carrier's movement to the cover and at the end of the carrier's movement
55 from the cover.

5. A container having a hinged cover, a carrier for material movable to and from the cover, a cover opener, an actuator revolvably mounted in the container and engaging the
60 carrier and cover opener and revolving both, a member secured to the container having a full convolution helical slot engaged by the carrier, said member having also a quarter convolution helical slot merging into a three
65 quarter circular slot engaged by the carrier,

whereby a greater longitudinal displacement is imparted to the carrier than to the cover opener when both are revolved by the actuator.

6. A container having a cover, cover operating means mounted to revolve and move
70 longitudinally, a carrier for material mounted to revolve and move longitudinally, and means engaging the cover operating means and carrier to impart thereto a longitudinal
75 movement when the cover operating means with the carrier and the said means are relatively rotated.

7. A container having a cover, revoluble cover operating means, revoluble carrier for
80 material, and means engaging the cover operating means and the carrier to impart thereto a longitudinal movement when they are revolved, and means for revolving simultaneously said cover operating means and carrier.
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8. A container having a cover, revoluble cover operating means, a revoluble carrier for
90 material, and means engaging the cover operating means and carrier to impart thereto a longitudinal movement when they are rotated, said means being arranged to impart
95 a greater longitudinal movement to the carrier than to the cover opener.

9. A container having a cover, revoluble cover operating means, a revoluble carrier
95 for material, and means engaging the cover operating means and carrier to impart thereto a longitudinal movement when they are rotated, said means being arranged to impart
100 a greater longitudinal movement to the carrier than to the cover opener, and an actuator for simultaneous rotation of the cover operating means and carrier.

10. A container having a cover, cover operating means, a carrier for material, helical
105 means engaging the cover operating means and carrier, and means for rotating the cover operating means and carrier whereby the helical means impart a longitudinal movement to said cover operating means and
110 carrier, said helical means being arranged to impart a greater longitudinal movement to the carrier than to the cover operating means.

11. A container having a cover, cover operating means mounted to move in a helical
115 path, a carrier for material also mounted to move in a helical path which is longer than the helical path of the cover operating means, and means for moving the cover operating
120 means and carrier.

12. A container having a cover, cover operating means mounted to move in a helical
125 path, a carrier for material mounted to move in a helical path longer than that of the cover operating means, and means for simultaneously moving the carrier and cover operating means.

13. A container having a cover, a carrier for material movable to and from the cover,
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and a member revoluble on the container including means for operating the carrier and the cover when the member is revolved.

14. A container having a cover, cover operating means, a carrier for material movable to and from the cover, and an actuator revoluble on the container for operating both the cover means and carrier as the actuator is revolved.

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