

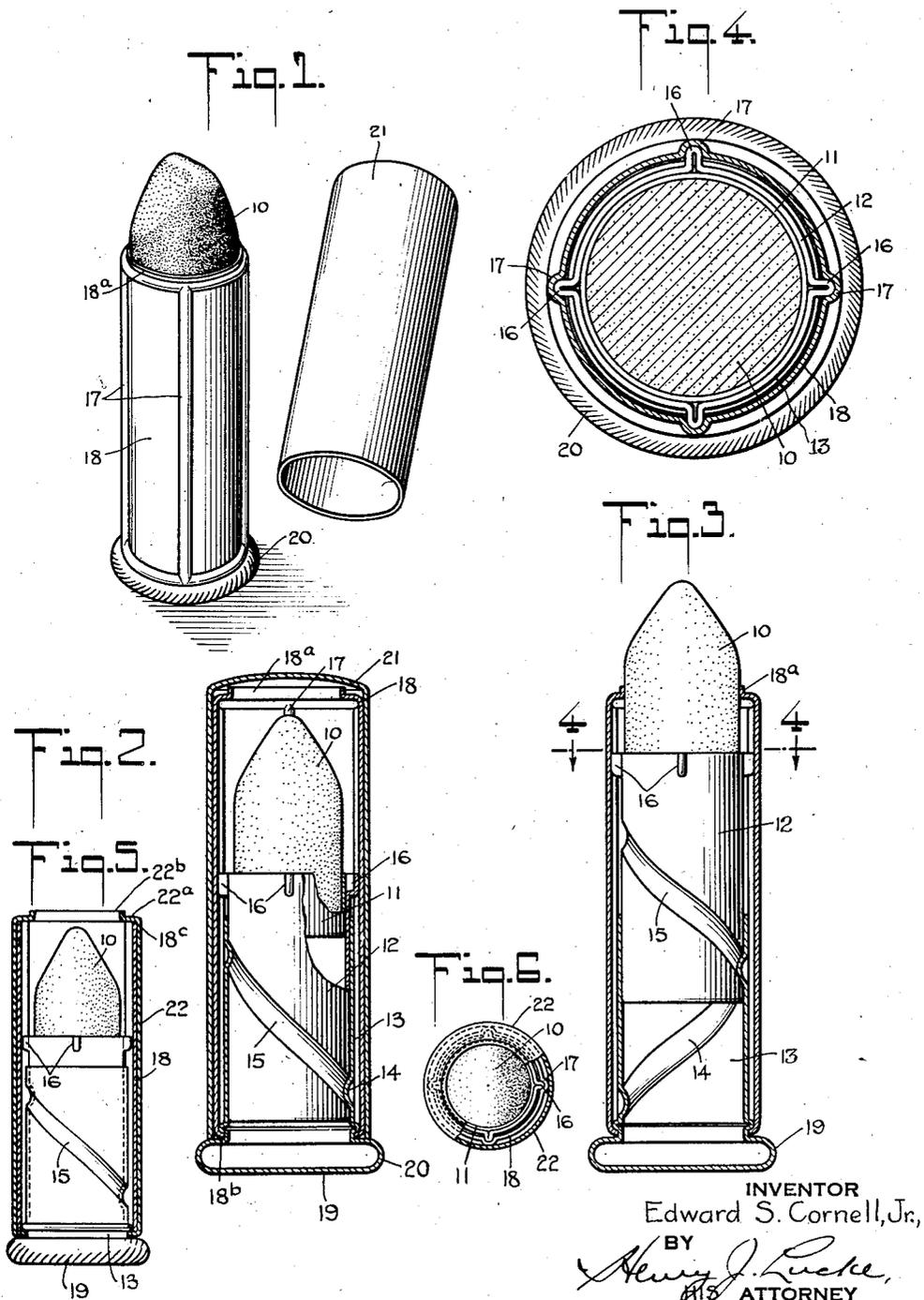
Feb. 28, 1933.

E. S. CORNELL, JR
RECEPTACLE FOR LIP STICKS

1,899,748

Filed Sept. 19, 1931

2 Sheets-Sheet 1



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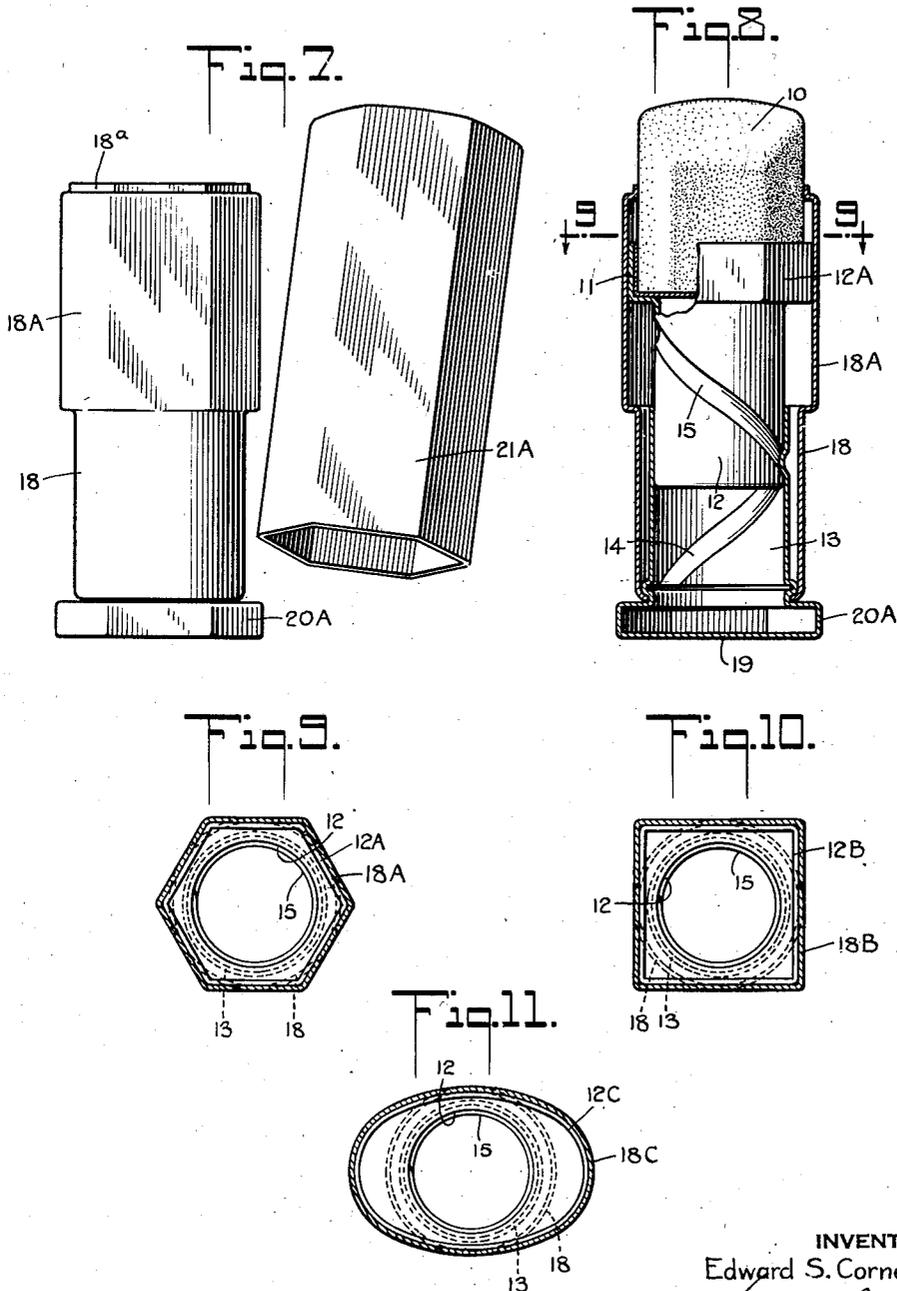
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UNITED STATES PATENT OFFICE

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RECEPTACLE FOR LIP STICKS

Application filed September 19, 1931. Serial No. 563,779.

My invention relates to receptacles for lip sticks and other cosmetics, and for other articles, usually of personal use by application of the article; however, the invention is not limited to articles of personal body use.

A primary feature of the present invention is the combined assembly as a receptacle of an article carrying member, usually circular in cross-section, and removable from the receptacle, such carrying member being positioned within the receptacle to provide for axial movement by a twist or other turning force applied manually to relatively movable parts of the receptacle, the carrier member being preferably non-rotatively actuated in the direction of its axis.

Pursuant to my invention, the total number of required parts has been materially reduced, as compared with present and prior art receptacles of this character. My invention is also advantageous in that the mechanical operations required in the construction of the parts are of readily formable character, and the formed parts simply assembled by nested relation with one another.

In general, my invention comprises a pair of cam related elements, utilizing a convex or bead cam and associated concave groove, or equivalent, for the movably related elements, and guide means or formations extending parallel to the longitudinal axis of the receptacle to effect non-rotative relation of the article carrying member relative to the outermost part of the receptacle.

My invention may be embodied in forms with or without the use of a separable cover, optionally with the manufacturer, and depending largely upon the item of cost of manufacture.

Further features and objects of the invention will be more fully understood from the following detail description and accompanying drawings, in which

Fig. 1 is an elevational perspective view of a form of my invention, the cover being removed and the lip stick or other suitable cosmetic elevated to its use position;

Fig. 2 is a central vertical sectional elevation of Fig. 1, with the cover in position;

Fig. 3 is a vertical sectional elevation of

Fig. 2, the cover being removed; the lip stick carrier element is shown in its elevated or use position, substantially corresponding to that appearing in Fig. 1;

Fig. 4 is a sectional elevation, on a greatly enlarged scale, on line 4—4 of Fig. 3;

Fig. 5 is a central vertical section of another form of the invention;

Fig. 6 is a top plan view of Fig. 5, parts thereof being omitted for the sake of clarity;

Figs. 7, 8 and 9 illustrate a further embodiment of my invention; Fig. 7 shows the body of the receptacle in side elevation and the cover in perspective view, Fig. 8 is a central vertical sectional view of the body of the device, and Fig. 9 is a sectional elevation on line 9—9 of Fig. 8. It will be observed that the upper portion, and also the cover, are designed of hexagonal configuration.

Fig. 10 is the sectional elevation similar to Fig. 9, but illustrating the upper portion of the device of square configuration; and

Fig. 11 is a sectional elevation similar to Fig. 9, and illustrating the upper body portion of the device of oval configuration.

Referring to Figs. 1 to 4, the lip stick or other suitable cosmetic, indicated at 10, is positioned in a suitable, dished article carrying member 11, which latter is frictionally received and held within the sleeve member 12. The sleeve member 12 is disposed between and in axially displaceable relation with the intermediately disposed sleeve member 13. The axial displacement of the inner sleeve member 12 relative to the intermediately disposed sleeve member 13, is attained by suitable cooperating bead cam and cam groove elements, as, for example, providing the intermediately disposed sleeve 13 with an inwardly extending, i. e., convex bead cam 14 and the inner sleeve 12 with a concave cam groove 15. The inner sleeve member 12, see Figs. 2 and 4, is preferably provided with suitable means for attaining axial displacement free of rotation, as by forming outwardly projecting vertical ribs 16 on the inner sleeve member 12 of such number as may be desired, which ribs 16 are received within and guided by vertically extending grooves 17 of the outermost sleeve member 18, see

also Fig. 1. The intermediately disposed sleeve member 13 is suitably secured in fixed relation with the bottom member 19, and, if preferred, may be integral therewith, as appears in Fig. 2.

The bottom member 19 is desirably knurled or otherwise roughened, preferably on its outer face as is indicated at 20 in Fig. 1; the edge 20 is preferably bulged laterally, and may be of circular or like configuration.

As is indicated in Fig. 1, a cover 21 may be provided for enclosing the receptacle, the cover being preferably of a length to fully enclose and conceal the outermost sleeve member 18, when the cosmetic stick 10, or equivalent, has been moved to its concealed position.

Any desired lip formation as indicated at 18a, usually for artistic effect, may be formed at the upper end of the outermost sleeve member 18. The outermost sleeve member 18 is retained in position as may be desired, as by inwardly crimping its lower end, as indicated at 18b.

In the use of the above described form of my invention, the cosmetic stick 10 is moved from its concealed position to its exposed, i. e., use position, by grasping the member 18 with one hand and the rim 20 of the bottom member 19 with the other hand and effecting a twist or rotation, whereby the intermediately disposed sleeve member 13 being stationary relative to the bottom member 19, and the carrier member 11 being non-rotative relative to the outermost sleeve member 18, the twist or rotation effects the axial displacement of the inner sleeve member 12 and therewith the carrier member 11 by the movement of its guide ribs 16 in the guide grooves 17 of the member 18, the inner sleeve member 12 being held stationary relative to the carrier member 11 by their mutual frictional engagement.

The embodiment shown in Figs. 5 and 6 conforms largely to that appearing in the foregoing figures and like parts are designated by like reference characters. However, the embodiment illustrated in Figs. 5 and 6 is arranged to have a wholly smooth, i. e., cylindrical outer face without the use of a cover, for which purpose an additional outer sleeve member 22 is employed, which is secured in rotative relation with the intermediately disposed sleeve member 13 (and therefore in rotative relation with the bottom member 19).

The outer sleeve member 18 is retained within the member 22, by inwardly crimping the lower edge of the outer member relative to the reduced portion of the bottom member 19, see Fig. 5, and by terminating the upper edge 18c of the member 18 within the inturned upper circular flange 22a of the outer member 22, the innermost edge 22b of

the member 22 being upwardly flanged or otherwise for artistic or finish effect.

The above various embodiments of my invention utilize in general the circular configuration as the configuration of the receptacle as a whole.

However, my invention is not limited to the circular configuration, and particularly with respect to the carrier element 11, the upper portion of the outermost member of the receptacle and of the cover, if the last-named is used.

Figs. 7 to 11 illustrate the utilization of configurations other than circular, the embodiment illustrated in detail in Figs. 7, 8 and 9, having a hexagonal configuration, that of Fig. 10 a square configuration and that of Fig. 11 an oval configuration.

The embodiment illustrated in Figs. 7, 8 and 9 corresponds generally to that illustrated in Figs. 1 to 4 and like reference characters are employed to designate like parts, bearing in mind that the lower portion of the inner sleeve member 12 is of circular configuration and its upper portion 12A the configuration of that selected for the receptacle, in this instance hexagonal. In this embodiment, the intermediately disposed sleeve member 13 is circular in cross-section in its body portion, and in this instance secured to or integral with the laterally extending rim 20A of the bottom member 19, which for artistic effect as well as for ease of manipulation is of the same configuration as that of the receptacle, in this instance hexagonal.

Correspondingly, the sleeve member 18, in this instance the outermost sleeve member, is of circular cross-section at its body portion, and at its upper portion 18A is that of the configuration of the receptacle, i. e., hexagonal.

As appears from Figs. 7, 8 and 9, the employment of non-circular configuration affords the elimination of the axially parallelly extending guide ribs 16 and guide grooves 17, utilized in the heretofore described embodiments illustrated in Figs. 1 to 6.

The carrier member 11 conforms in its configuration with that of the receptacle, and in the embodiment illustrated in Figs. 7, 8 and 9, is of hexagonal contour, the cosmetic stick 10, or equivalent, being of like configuration in cross-section.

The cover 21A, if used, has a configuration corresponding to that of the receptacle, and in the instance illustrated in Fig. 7 of hexagonal contour.

The axial displacement of the carrier member 11, in the embodiment shown in Figs. 7, 8 and 9, corresponds to that of the hereinabove described embodiments, the spiral cam rib 14 functioning with the spiral cam groove 15 in like manner to elevate the cosmetic stick 10, or equivalent, upon applying manually a twist or rotative force to the

edge 20A of the bottom member 19 relative to the outer sleeve member 18 which may be readily grasped at its non-circular face 18A.

The selected non-circular configuration 5 may be a square, as is indicated in Fig. 10, in which instance the upper portion 18B of the outer sleeve 18, and the upper portion 12B of the inner cam sleeve 12 are of square configuration, the lower portions of these mem- 10 bers being circular as hereinabove described.

Should the manufacturer desire an oval configuration, such configuration determines that of the upper portion 18C of the outer member 18 and the upper portion 12C of the 15 inner cam member 12, as appears in Fig. 11.

Should a cover be desired for the embodiments shown in Figs. 10 and 11, such cover has a configuration corresponding to that of the receptacle, as hereinabove described.

It will be observed that the configurations of the embodiments typified in Figs. 7 and 8, and in Fig. 10 and in Fig. 11, possess artistic appearance, that is to say, eliminate the 20 guide ribs 17, or equivalent, of the outermost member 18, which are exposed to view upon removal of the cover 21, in the embodiment illustrated in Figs. 1 to 4.

As will be apparent to those skilled in the art, the various constituent parts of my re- 30 ceptacle may be formed of any suitable material, which is capable of being shaped or molded to have the desired formations and configurations, among which materials I cite metal, plastic compositions and the like.

As appears, my invention provides for 35 cam groove and cam bead follower elements for the inner sleeve member and the intermediately disposed sleeve member, the inner sleeve member serving to directly receive and 40 support the carrier member, the bottom member being operatively connected with the intermediately disposed member whereby upon rotation of the bottom member in either di- 45 rection the carrier member and therewith the therein contained article are moved from concealed position to exposed position and vice versa.

In the non-circular forms of my invention, the configuration of such non-circular 50 forms provides the extending means and guide means therefor of the circular forms of my invention, for effecting axial displacement of the carrier member in its movement from concealed position to exposed position. 55 and vice versa in longitudinal axial direction, that is to say, without rotation of the carrier member and the article therein-contained.

Whereas I have described my invention 60 by reference to specific forms thereof, it will be understood that many changes and modifications may be made without departing from the spirit of the invention.

I claim:

65 1. In a receptacle, the combination of a

carrier member for containing the article to be dispensed, an outer member serving as the wall of the body of the receptacle, a bottom member for the receptacle, and a member 70 disposed intermediate said carrier member and said outer member, said intermediately disposed member and said carrier member being provided with cam groove and cam bead follower elements for supporting and 75 displacing said carrier member to and from concealed and exposed positions, said carrier member and said intermediately disposed member having a length materially less than said outer member, said bottom member being operatively connected with said inter- 80 mediately disposed member.

2. In a receptacle, the combination of a carrier member for containing the article to be dispensed, an outer member serving as the wall of the body of the receptacle, a bottom 85 member for the receptacle, and a member disposed intermediate said carrier member and said outer member, said intermediately disposed member supporting and displacing 90 said carrier member to and from concealed and exposed positions, said carrier member and said intermediately disposed member having a length materially less than said outer member, said bottom member being 95 operatively connected with said intermediately disposed member, said carrier member and said intermediately disposed member comprising spiral cam groove and spiral cam bead follower elements.

3. In a receptacle, the combination of a 100 carrier member, an outer member, said carrier member and said outer member being provided with co-operating axially parallel extending elements and guide means therefor, a member disposed intermediate 105 said carrier member and said outer member, said carrier member and said intermediately disposed member having a length materially less than said outer member and being provided with spiral cam groove and spiral cam bead follower elements, and a bottom member for manual operation for effecting axial displacement between said carrier member and said intermediately disposed member.

4. A receptacle comprising a carrier member, an outer member, an actuating member disposed intermediate said carrier member and said outer member, said carrier member and said intermediately disposed member 110 having a length materially less than said outer member and being provided with cam and cam follower elements, said outer member being provided with a lengthwise disposed guiding track extending upward beyond the top of the intermediate member, a 115 projection on the top of the carrier member engaging the guiding track above the top of the intermediate member in all positions of adjustment of the carrier member, and means 120 for manually rotating the intermediate mem- 125

ber with relation to the other two members.

5. In a receptacle, the combination of a carrier member for containing the article to be dispensed, an outer member serving as the wall of the body of the receptacle, a bottom member for the receptacle and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member supporting and axially and non-rotatively displacing said carrier member to and from concealed and exposed positions, said carrier and said intermediately disposed members comprising cam groove and cam bead follower elements, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

6. In a receptacle, the combination of a carrier member for containing the article to be dispensed, an outer member serving as the wall of the body of the receptacle, a bottom member for the receptacle and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member supporting and axially and non-rotatively displacing said carrier member to and from concealed and exposed positions, said carrier and said intermediately disposed members comprising cam groove and cam bead follower elements, said outer member being provided with axially parallelly extending guide edges, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

7. In a receptacle, the combination of a carrier member, an outer member, said carrier member and said outer member being provided with cooperating axially parallelly extending elements and guide means therefor, and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member effecting axial displacement of said carrier member upon relative rotation, said carrier and said intermediately disposed members being provided with cam groove and cam bead follower elements, and a bottom member, said outer member and said bottom member being rotatively mounted relative to one another, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

8. In a receptacle, the combination of a carrier member, an outer member, said carrier member and said outer member being provided with cooperating axially parallelly extending elements and guide means therefor, and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member effecting axial displacement of said carrier member upon relative rotation, said carrier and said intermediately disposed members being provided with cam groove and cam bead follower elements, and a bottom member, said outer member and said bottom member being rotative-

ly mounted relative to one another, said carrier element and said intermediately disposed element having circular configuration, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

9. In a receptacle, the combination of a carrier member, an outer member, and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member effecting axial displacement of said carrier member upon relative rotation, said carrier and said intermediately disposed members being provided with cam groove and cam bead follower elements, and a bottom member, said outer member and said bottom member being rotatively mounted relative to one another, said carrier member being of non-circular configuration and said intermediately disposed member being of circular configuration, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

10. In a receptacle, the combination of a carrier member, an outer member, and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member effecting axial displacement of said carrier member upon relative rotation, said carrier and said intermediately disposed members being provided with cam groove and cam bead follower elements, and a bottom member, said outer member and said bottom member being rotatively mounted relative to one another, said carrier member being of non-circular configuration, and said outer member having an upper portion of like non-circular configuration, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

11. In a receptacle, the combination of a carrier member, an outer member, and a member disposed intermediate said carrier member and said outer member, such intermediately disposed member effecting axial displacement of said carrier member upon relative rotation, said carrier and said intermediately disposed members being provided with cam groove and cam bead follower elements, and a bottom member, said outer member and said bottom member being rotatively mounted relative to one another, said carrier member being of non-circular configuration, said outer member having an upper portion of like noncircular configuration and said intermediately disposed member having circular configuration, said bottom member serving to cooperate said cam groove and said cam bead follower elements.

In testimony whereof I have signed this specification this 18th day of September, 1931.

EDWARD S. CORNELL, JR.