

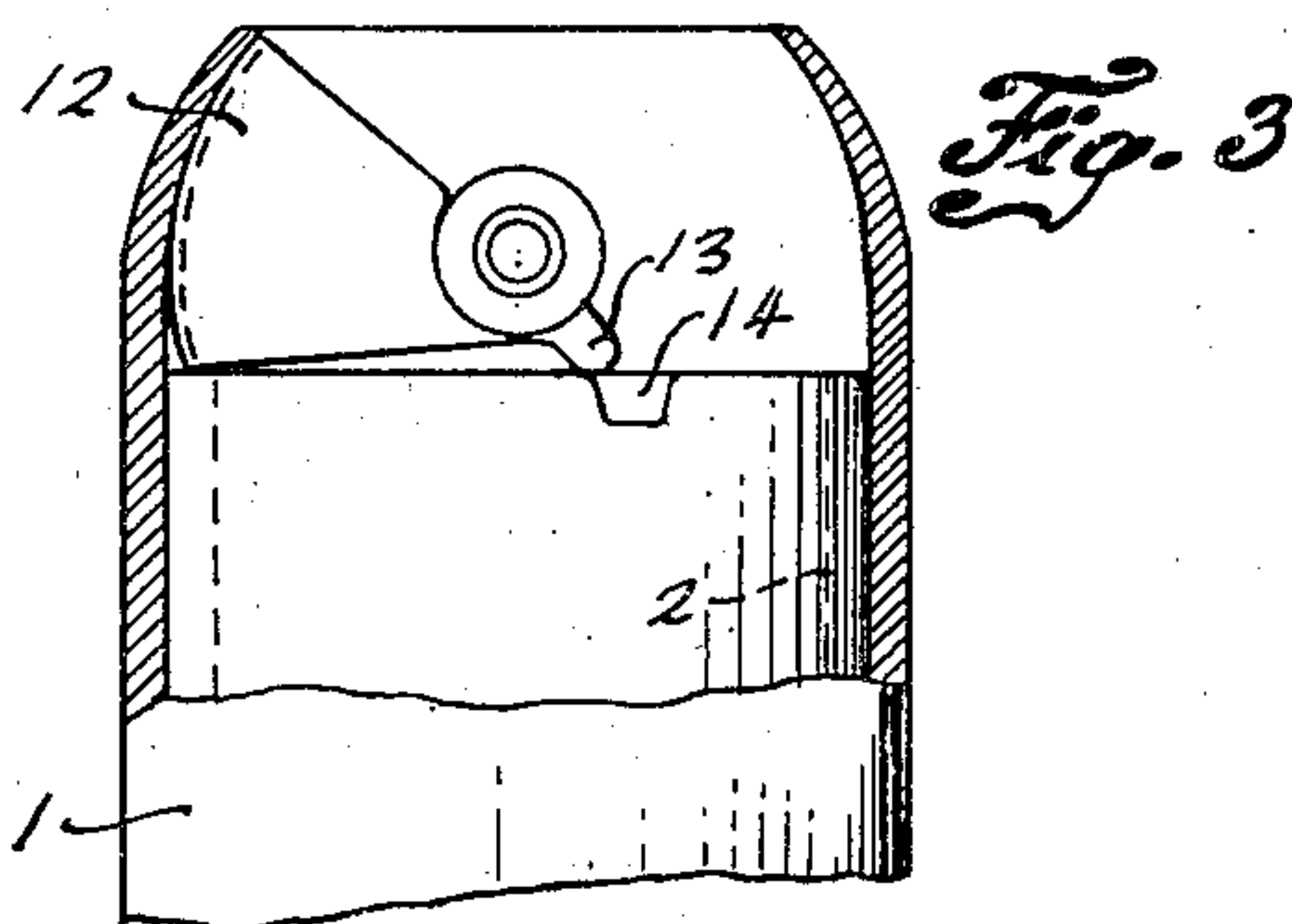
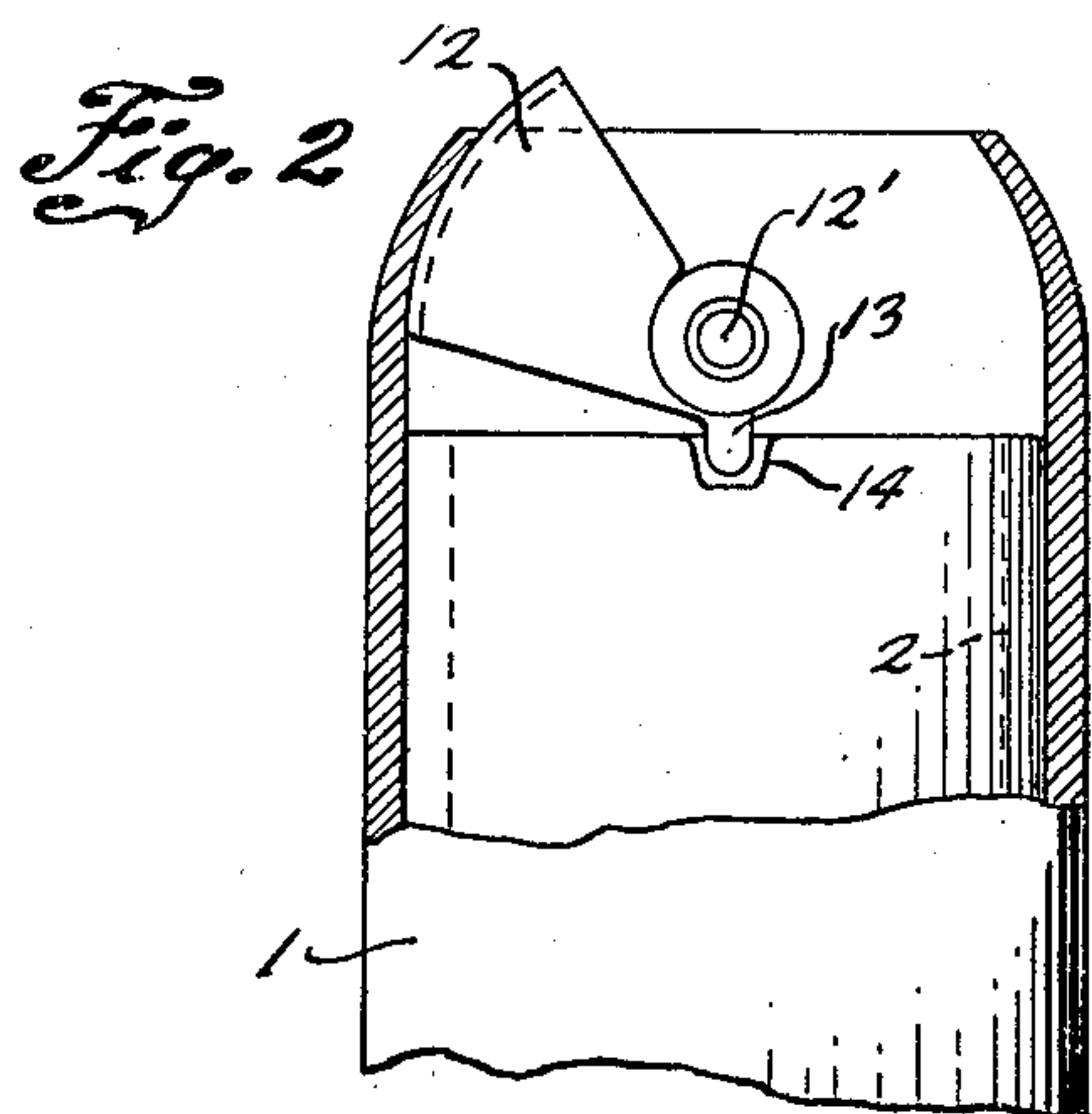
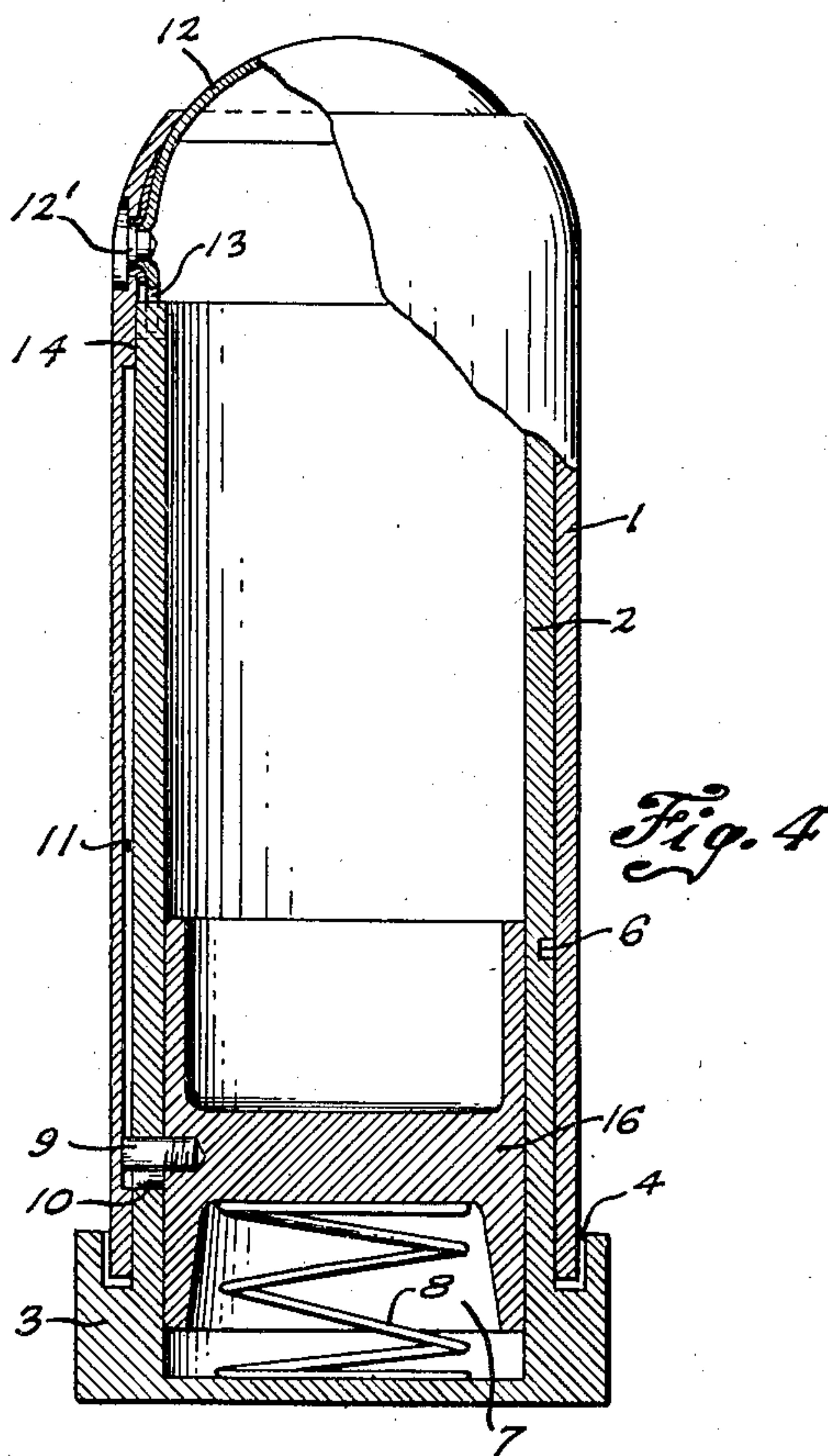
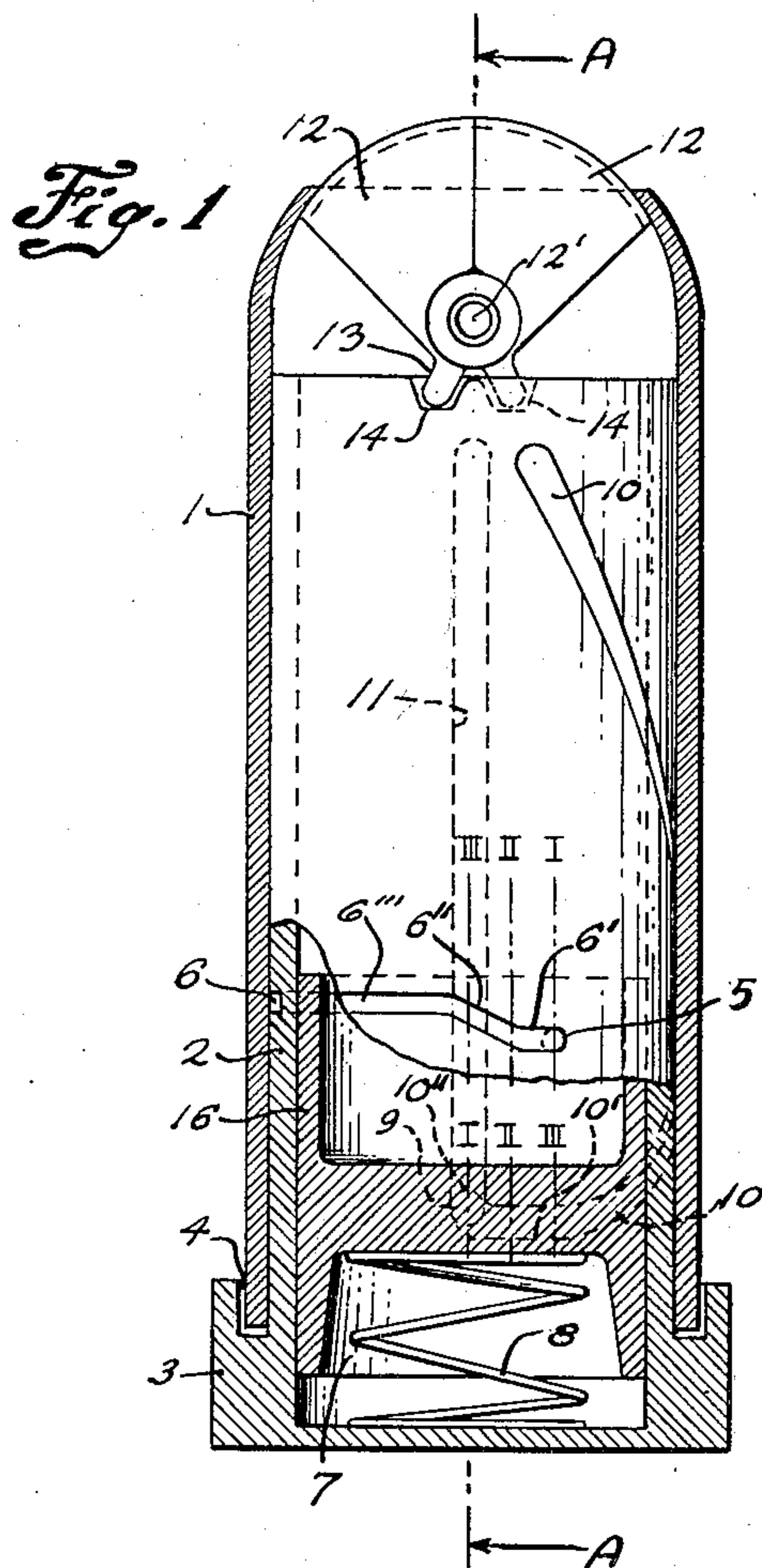
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LIPSTICK CONTAINER

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## LIPSTICK CONTAINER

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This invention relates to containers or cases for lipsticks, particularly to lipstick containers in which the lipstick proper is caused to protrude from the container by turning an actuating member.

With lipstick containers of the general type, above referred to, it is conventional to effect the outward movement of a lipstick holder and therefore of the lipstick proper, by means of a pin supported by the lipstick holder and engaging through a spiral-shaped guiding slot in the actuating member a vertical or longitudinal groove in an outer sleeve of the container housing the actuating member and the lipstick holder proper.

Conventional lipstick containers are usually closed by means of a removable cover which is removed before the lipstick proper is caused to protrude from the container and is replaced after use and withdrawal of the lipstick. In many instances, the use of such separate cover is inconvenient for obvious reasons.

Accordingly, it is one of the objects of the invention to provide a lipstick container which does not require a separate cover for covering and uncovering the lipstick proper.

Another object of the invention is to provide a novel and improved lipstick container which can be opened and closed by operating the same actuating member of the lipstick container which also serves to protrude and withdraw the lipstick proper.

Another object of the invention is to provide a novel and improved lipstick container the open or forward end of which is normally closed by a pair of jaws which are automatically opened upon operation of the actuating member of the container and prior to the forward movement of the lipstick relative to the container, and which are automatically re-closed subsequent to the complete withdrawal of the lipstick after use.

Another more specific object of the invention, allied with the preceding one, is to provide a novel and improved lipstick container in which the jaws are safely held in their open position when the lipstick protrudes from the container.

Another more specific object of the invention, allied with the preceding ones, is to provide a novel and improved lipstick container in which the automatic opening and closing movement of the jaws is effected in a simple and reliable manner.

Another object of the invention is to provide a novel and improved lipstick container which possesses a smooth and attractive appearance, which can be conveniently used without requir-

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ing the removal of any part of the container such as a cover when used, and which permits the opening and closing of the container and the protrusion and withdrawal of the lipstick proper by one and the same operation of the actuating member.

Other and further objects, features and advantages of the invention will be pointed out hereinafter, and appear in the appended claims forming part of the application.

In the accompanying drawing a now preferred embodiment of the invention is shown by way of illustration and not by way of limitation.

In the drawing:

Fig. 1 is an elevational sectional view of a lipstick container or case according to the invention, the jaws being shown in closed position.

Fig. 2 is a fragmentary view of the upper part of the container, one of the jaws being shown in an intermediate position.

Fig. 3 is a similar fragmentary view, one of the jaws being shown in its fully opened position, and

Fig. 4 is a section along line A—A of Fig. 1.

Referring now to the figures in detail, the lipstick container or case as illustrated comprises a cylindrical outer sleeve 1 made of metal, plastic or any other suitable material in which an inner sleeve 2 is rotatably and axially slidably supported. Sleeve 2 is telescoped into sleeve 1 and extended through the major portion of this sleeve. The rear or outer end of sleeve 2 forms a collar 3 by means of which sleeve 2 can be turned relative to sleeve 1. Collar 3 is provided with an annular groove engaged by the rear end of sleeve 1, so that no visible clearance is left between the rear edge of sleeve 1 and sleeve 2 when sleeves 1 and 2 are axially displaced relative to each other, as will be more fully described hereinafter. Sleeve 1 and 2 are slidably secured to each other by means of a pin 5 supported by sleeve 1 and engaging a guiding groove or slot 6 in sleeve 2. Disposed within sleeve 2 is a lipstick holder 16 which serves to receive the lipstick proper (not shown) in a conventional manner. Holder 16 is shaped at its rear end to form a recess 7 in which a spiral spring 8 is disposed abutting against sleeve 2 and holder 16. This spring is so loaded that it will urge the holder towards the outer or forward end of the lipstick container. Holder 16 supports a pin 9 engaging through a spiral-shaped guiding slot 10 in sleeve 2 a longitudinal or axial guiding groove 11 provided in the inner wall of sleeve 1. On the tapered or inwardly curved front end of sleeve 1, there is provided



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a pair of pivotally supported jaws 12, each having a nose 13 arranged to engage the corresponding one of a pair of spaced notches or recesses 14 in the front or upper edge of sleeve 2. The jaws are pivoted to sleeve 1 by a pivot 12' or pivotally supported within sleeve 1 in any other suitable manner.

Sleeve 2 serves as the actuating member of the lipstick container and causes, when turned in one direction, jaws 12 to be pivoted into a position clearing the path of the lipstick holder and subsequently movement of the lipstick holder into a position in which the lipstick protrudes from the open end of sleeve 1 as will be more fully explained hereinafter.

Groove or slot 6 in sleeve 2 comprises a substantially horizontal short section 6', an intermediate slanted section 6'', and a longer substantially horizontal section 6'''. When the lipstick proper is withdrawn and the jaws are closed, pin 5 is positioned at the outer end of horizontal groove section 6', as indicated in Fig. 1 by dotted line I. Jaws 12 are completely closed and form, together with the upper curved end of sleeve 1, an approximately semi-spherical cover for the container, each jaw having the shape of a fraction of a sphere. Slot 10 is bent off to form a short substantially horizontal section 10'. The inner end of this extension is turned slightly upwardly forming a seat 10'' securing holder 16 in its fully withdrawn position. As can best be seen on Fig. 1, spiral spring 8 tends to urge pin 9 and with it the lipstick holder into seat 10'' thereby preventing an accidental opening of the lipstick container. When pin 5 is in the position indicated by line I, pin 9 is in the position indicated by a second dotted line I.

When now sleeve 2 is turned relative to sleeve 1 by means of collar 3, each of recesses 14 in the upper edge of sleeve 2 causes a corresponding displacement of the respective engaged driving nose 13, so that the jaws begin their pivotal opening movements. Fig. 2 shows the position of one of the recesses 14 and the corresponding jaw 12, when pin 5 has reached an intermediate position II, in which the upwardly slanted section 6'' of groove 6 commences. Simultaneously, pin 9 of holder 16 has reached the position corresponding to position II in slot section 10'. As will be apparent from the drawings, holder 16 has not yet experienced any displacement other than a slight backward movement from its previously described fixed or locked position in seat 10''.

When the turning of sleeve 2 is continued into a position corresponding to position III, that is a position in which pin 5 has reached the upper end of the upwardly slanted section 6'' of groove 6, the corresponding continued displacement of recesses 14 causes a corresponding pivotal movement of noses 13 and hence of jaws 12. At the same time, sleeve 2 is displaced slightly backwardly in axial direction relative to outer sleeve 1, the extent of this backward movement being controlled by the slant of section 6''.

Upon continued rotation of sleeve 2 beyond position III, noses 13 will become disengaged from the corresponding recesses 14 and begin to ride on the upper edge of sleeve 2, as can best be seen on Fig. 3.

The design and dimensions of the respective component parts are preferably so selected that the rear edges of jaws 12 just engage the upper edge of sleeve 2, but, of course, care must be

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taken that the jaws do not press too hard against the upper edge of sleeve 2.

In the position, as shown in Fig. 3, the jaws have reached their fully opened position and pin 9 is in the position indicated in Fig. 1 by the dotted line III. As will be evident, lipstick holder 16 has not yet commenced its forward displacement. When now the rotation of sleeve 2 is continued, pin 9 enters the steep portion of spiral slot 10, thereby causing an upward displacement of holder 16. At the same time, pin 5 travels within the horizontal section 6''' of groove 6, so that sleeve 2 does not experience further backward displacement relative to sleeve 1. Consequently, the jaws remain in their fully opened position shown in Fig. 3 when and while the lipstick holder 16 is displaced within sleeve 1 in one or the other direction. In other words, the jaws are secured in their open position.

When it is desired to withdraw the lipstick and to close the container, the rotation of sleeve 2 is reversed, thereby causing pin 9 to slide backwardly or downwardly within slot 10. Jaws 12 remain in the opened position shown in Fig. 3, until the lipstick holder is completely withdrawn, or in other words, until pin 9 has again reached the position indicated by dotted line III. When the rotation of sleeve 2 is continued in the same direction, holder 16 remains in its withdrawn position, because pin 9 now travels within the substantially horizontal slot section 10'. Pin 5, however, enters the slanted section 6'' of groove 6, so that sleeve 2 is displaced slightly upwardly relative to sleeve 1. As will be apparent from Fig. 3, noses 13 are forced to re-engage the respective recesses 14, partly because sleeve 2 and with it the recesses are moved upwardly so as to engage noses 13, and partly because the upper edge of sleeve 2 now presses against the rear edge of the jaws by reason of the upward movement of sleeve 2. Consequently, a pivotal movement is imparted to the jaws. Upon continued rotation of sleeve 2 recesses 14 will carry noses 13 along so that the jaws are pivoted toward each other, and into their position, re-closing the front end of the lipstick container (as shown in Figs. 1 and 4).

It will be evident that the axial displacement of sleeve 2 relative to the outer sleeve is of great importance, in that such displacement is essential for causing the pivotal movements of the jaws by means of noses engaging the corresponding recesses in the upper edge of sleeve 2. Without a relative axial movement of the sleeves, it would perhaps be possible to pivot the jaws into their open position, but noses 13 would not re-engage the recesses for the closing movement; at least there would be no certainty that such re-engagement would occur. In other words, the jaws might not be reclosed after having been opened.

The required axial displacement of sleeve 2 relative to sleeve 1 is so slight that it is hardly noticeable to a user of the lipstick.

Any suitable means to effect the desired axial relative displacement can be employed. However, it has been found that the described pin-groove arrangement is particularly advantageous.

In this connection it should be noted that the pin-groove arrangement constitutes the only axial connection between the sleeves.

Groove 6 and slot 10 are preferably disposed in such relative position that they do not interfere with each other. This can be attained in a simple and convenient manner, since any rela-



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tive position of pins 5 and 9, seen in peripheral direction, can be selected.

While the invention has been described in detail with respect to a certain now preferred example and embodiment of the invention it will be understood by those skilled in the art after understanding the invention, that various changes and modifications may be made without departing from the spirit and scope of the invention and it is intended therefore, to cover all such changes and modifications in the appended claims.

What is claimed as new and desired to be secured by Letters Patent is:

1. Lipstick container comprising an outer sleeve, an inner sleeve axially and rotatably slidable within the outer sleeve, a lipstick holder axially and rotatably slidable within and relative to the inner sleeve, a pair of jaws pivotally supported near one end of the outer sleeve and arranged to close said sleeve end in one pivotal position and to open said sleeve end in another pivotal position, said inner sleeve having a pair of spaced recesses in its edge facing the jaws, each of the jaws having a nose arranged to engage a respective recess for causing pivotal movements of the jaws in response to a rotation of the inner sleeve relative to the outer sleeve, first guiding means operatively coupling the holder, the inner sleeve and the outer sleeve for causing axial displacement of the holder within the container upon rotation of the inner sleeve relative to the outer sleeve, and second guiding means operatively coupling the inner sleeve and the outer sleeve for causing relative axial displacement of the sleeves upon rotation of the inner sleeve within the outer sleeve, said first and second guiding means being arranged to be subsequently operative for the purposes aforesaid, thereby causing opening and closing of the jaws prior and subsequent respectively to the axial displacement of the lipstick holder.

2. Lipstick container comprising an outer sleeve, an inner sleeve axially and rotatably slidable within the outer sleeve, a lipstick holder axially and rotatably slidable within and relative to the inner sleeve, a pair of jaws pivotally supported near one end of the outer sleeve and arranged to close said sleeve end in one pivotal position and to open said sleeve end in another pivotal position, said inner sleeve having a pair of spaced recesses in its edge facing the jaws, each of the jaws having a nose arranged to engage a respective recess for causing pivotal movements of the jaws in response to a rotation of the inner sleeve relative to the outer sleeve, said noses and one of the edges of each jaw being arranged and positioned to ride upon the adjacent edge of the inner sleeve thereby securing the jaws in their open pivotal position, first guiding means operatively coupling the holder, the inner sleeve and the outer sleeve for causing axial displacement of the holder within the container upon rotation of the inner sleeve relative to the outer sleeve, and second guiding means operatively coupling the inner sleeve and the outer sleeve for causing relative axial displacement of the sleeves upon rotation of the inner sleeve within the outer sleeve, said first and second guiding means being arranged to be subsequently operative for the purposes aforesaid, thereby causing opening and closing of the jaws prior and subsequent respectively to the axial displacement of the lipstick holder.

3. Lipstick container as described in claim 2, 75

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wherein said second guiding means are arranged to telescope the inner sleeve out of the outer sleeve for a distance sufficient to cause the noses of the jaws to become disengaged from the respective recesses prior to the axial displacement of the holder toward the end of the outer sleeve arranged to be closed by the jaws, thereby causing the jaws to open prior to the aforesaid axial displacement of the holder.

4. Lipstick container as described in claim 2, wherein said second guiding means are arranged to telescope the inner sleeve into the outer sleeve for a distance sufficient to cause said noses to re-engage the recesses subsequent to a withdrawal of the holder into its withdrawn position within the outer sleeve, thereby causing the jaws to close subsequently to such withdrawal of the holder.

5. Lipstick container comprising an outer sleeve, an inner sleeve axially and rotatably slidable within the outer sleeve, a lipstick holder axially and rotatably slidable within and relative to the inner sleeve, a pair of jaws pivotally supported near one end of the outer sleeve and arranged to close said sleeve end in one pivotal position and to open said sleeve end in another pivotal position, said inner sleeve having a pair of spaced recesses in its edge facing the jaws, each of the jaws having a nose arranged to engage a respective recess for causing pivotal movements of the jaws in response to a rotation of the inner sleeve relative to the outer sleeve, said noses and one of the edges of each jaw being arranged and positioned to ride upon the adjacent edge of the inner sleeve thereby securing the jaws in their open pivotal position, said outer sleeve having a longitudinal groove in its inner wall, said inner sleeve having a spiral-shaped slot therethrough, a pin supported by said holder and extending through said slot and into the groove for causing axial displacement of the holder upon rotation of the inner sleeve relative to the outer sleeve, said inner sleeve having in its outside a groove including two substantially circumferential sections spaced apart in axial and peripheral direction and joined by a slanted groove section, and a second pin supported by said outer sleeve and extending into said groove for causing relative axial displacement of the sleeves when said second pin is moved through the slanted groove section upon rotation of the inner sleeve relative to the outer sleeve, said slot and groove being positioned in a relative position to each other so as to cause the said axial inner sleeve displacement to precede and to succeed respectively the axial holder displacement, thereby causing the jaws to open prior to and to close subsequent to the axial holder movement.

6. Lipstick container as described in claim 5, wherein said spiral slot is extended at one end to form a substantially circumferential extension so positioned as to be partly traversed by the first pin while the second pin traverses the slanted groove section, whereby the holder remains substantially in its withdrawn position during the opening and closing respectively of the jaws.

7. Lipstick container as described in claim 2, wherein said jaws are shaped to form approximately a fraction of a sphere when abutting against each other along one edge, an opposite edge of each jaw abutting against the adjacent edge of the inner sleeve when the jaws are in their opened positions.

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