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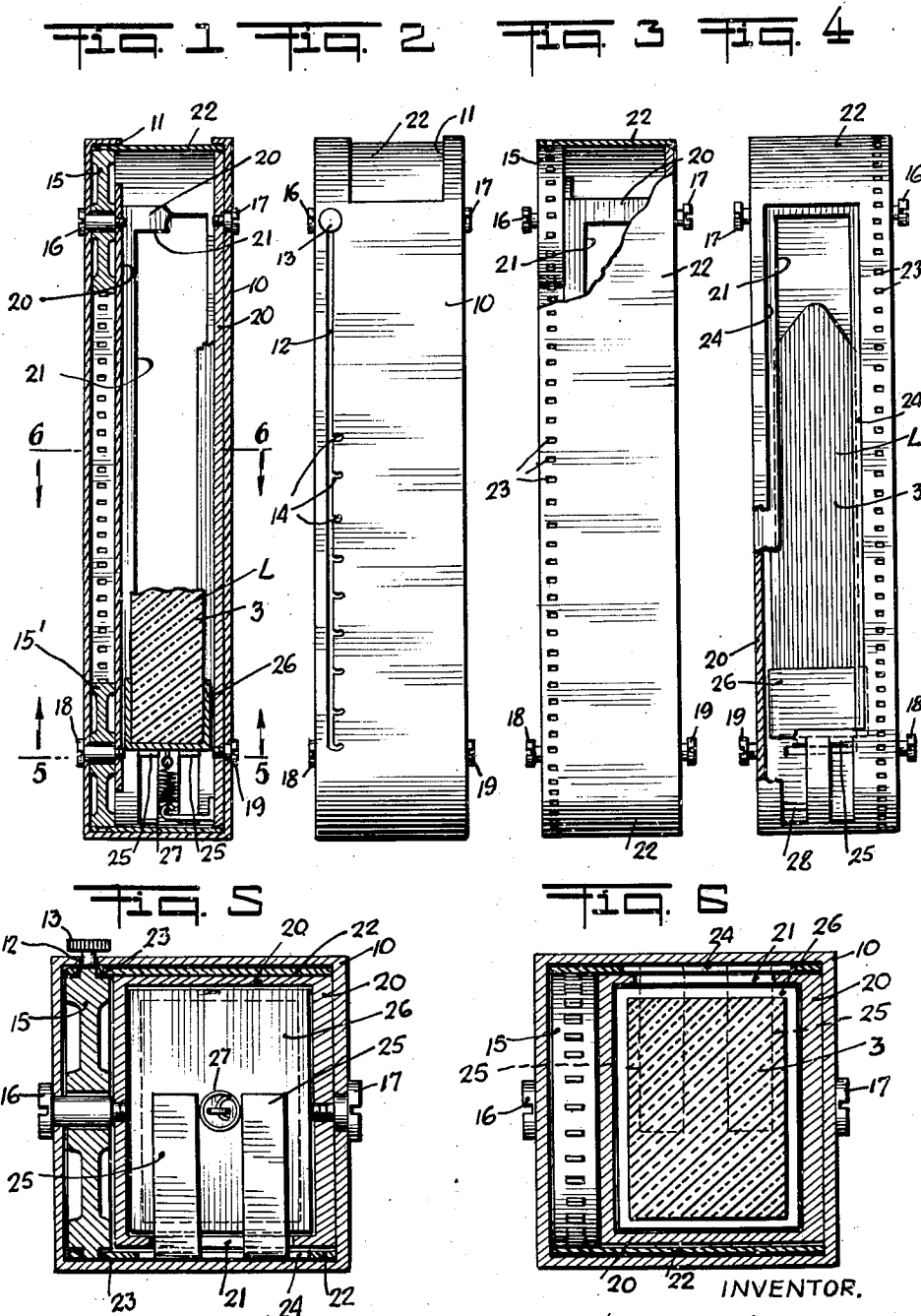
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2,491,241

COSMETIC HOLDER

Filed April 13, 1946

3 Sheets-Sheet 1



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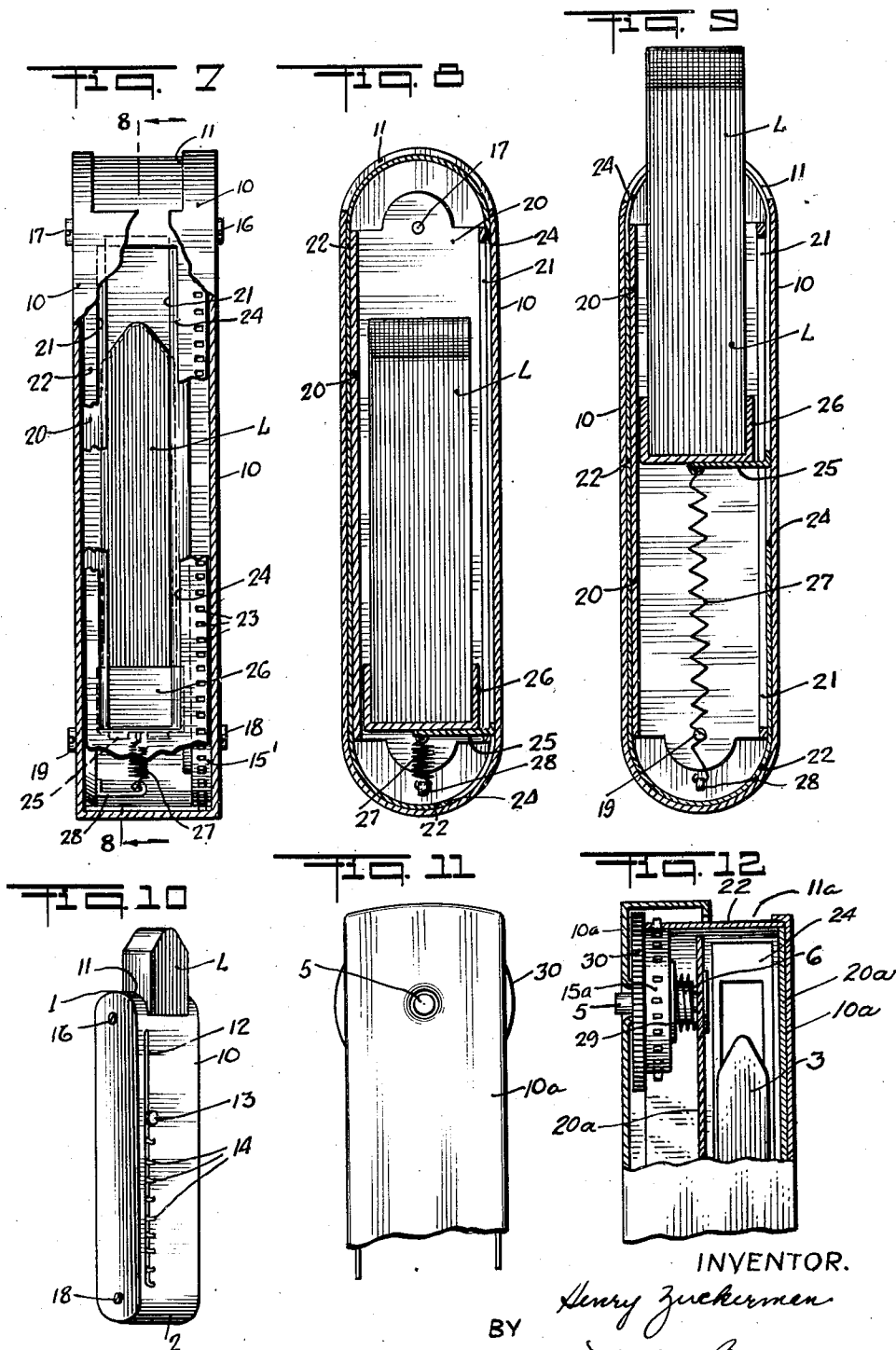
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3 Sheets-Sheet 2



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3 Sheets-Sheet 3

Fig. 13.

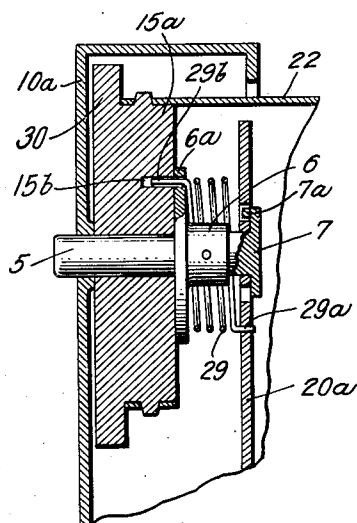
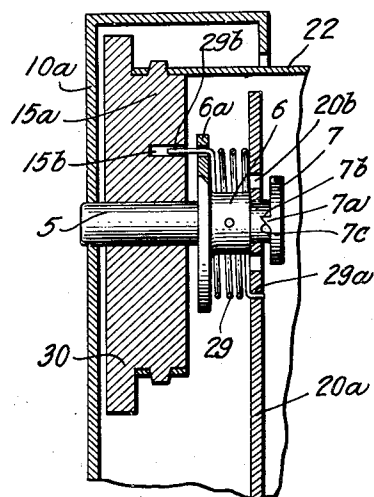


Fig. 14.



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COSMETIC HOLDER

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9 Claims. (Cl. 206-56)

1

This invention relates to a holder for cosmetic sticks or lipsticks and has particular relation to holders of this type, in which shifting of a knob or the like causes actuation of a flexible shutter element housed by the outer casing of the holder, and simultaneous exposure or withdrawal of the cosmetic stick or lipstick.

The main object of the present invention is to provide a cosmetic holder of the above mentioned type in which projection and retraction of the cosmetic stick may be easily and quickly effected by means of a simple mechanism, and accidental opening of the holder is safely prevented.

Another object of the present invention consists in providing a cosmetic holder which is simple in construction and reliable in operation.

A further object of this invention is to provide a cosmetic holder in which opening of the case and projection of the cosmetic stick is effected by manual shifting of a knob, while closing of the case and withdrawal of the cosmetic stick is effected by spring action.

It is also an object of the present invention to provide a cosmetic holder in which opening of the case and exposure of the cosmetic stick is effected by manually turning a wheel, and closing of the case and withdrawal of the cosmetic stick is effected by the release of a spring arranged on the shaft of said wheel.

Other objects and the advantages of the invention will be apparent from the following specification and claims and the appended drawings which show, by way of example, some preferred embodiments of the invention, and in which

Figure 1 is a sectional view through a cosmetic holder according to the invention;

Figure 2 is an outside view of the holder illustrated in Figure 1, showing the outer case and the button used for operating the holder;

Figure 3 is a view of the holder shown in Figure 2, the outer case being removed, and Figure 4 is a similar view of the holder in another position;

Figure 5 is a sectional view along line 5-5 of Figure 1, and Figure 6 is a sectional view along line 6-6 of Figure 1;

Figure 7 is a sectional view similar to that shown in Figure 1, but showing the holder in the position illustrated in Figure 4;

Figure 8 is a sectional view along line 8-8 of Figure 7;

Figure 9 is a view similar to that of Figure 8, showing the cosmetic stick partially moved up;

2

Figure 10 is perspective view of the holder in a position similar to that shown in Figure 9;

Figure 11 is the front view of a modified form of the holder, and Figure 12 is a sectional view of this modified form.

Fig. 13 is a longitudinal sectional view through the modified form of the holder shown in Figs. 11 and 12. The view is partly in perspective and is broken away, showing a detail of the winding and locking mechanism. The parts are shown in their locked position;

Fig. 14 is a view similar to Fig. 13, and shows the parts in their unlocked positions in which the mechanism may be wound or unwound.

Referring now to the drawings, particularly Figures 1-10, in detail, rectangular outer casing 10 has a rounded upper end 1 and a rounded lower end 2. Said upper end 1 is cut out to form an opening 11, through which the cosmetic stick 3 may be projected and withdrawn. Said outer casing has a longitudinally extending slot 12, in which knob 13 rides, and short transverse slots 14, adapted to be engaged by knob 13. Outer casing 10 houses inner casing 20, provided with a cut-out or opening 21. A flexible band 22 is arranged between outer casing 10 and inner casing 20. This band 22 is provided with a row of spaced holes or openings 23, which are adapted to be engaged by the projections of sprocket wheels 15 and 15'. This band is also provided with a cut-out 24. Knob 13 is fastened to band 22. If this knob 13 is in the position shown in Figure 2, the holder is closed, while moving of the knob 13 downward causes shifting of band 22 to a position in which the cosmetic holder may be projected through cut-out 24 as shown in Figures 9 and 10 and explained further below. Wheels 15 and 15' are arranged in the space between the wall of the outer casing 10 and inner casing 20, as shown in Figures 1 and 5, and they are provided with teeth or sprockets around which perforated band 22 travels. The shafts of wheels 15 and 15' are threaded to accommodate screws 16 and 18, and these wheels are attached to the inner case 20 by means of said screws. The inner and outer case are fastened to each other by means of screws 17 and 19. Cosmetic stick or lipstick 3 is placed in lipstick holder 26, which is connected by means of strips or tongues 25, 25 with band 22. The bottom of said holder 26 is connected with one end of spring 27, while the other end of spring 27 is fastened to the end of arm 28 which, in turn, is secured to the inner case 20. As will be understood from the drawings and

the above description, flexible band 22 moves between the outer and inner casing and along the sprockets of wheels 15 and 15', which engage the perforations of band 22. By causing knob 13 to move downward, band 22 and the cosmetic stick holder are caused to move from the position shown in Figures 2 and 8 to the position shown in Figures 9 and 10, in which cut-out 24 is at the upper end of the holder and permits projection of the cosmetic stick or lipstick. If, after use of the lipstick, knob 13 is released from the engagement with one of the slots 14, the lipstick holder 26 is retracted by the action of spring 27 from the exposed position shown in Figure 9 to the concealed position illustrated in Figure 7, and the opening 11 of the outer case 10 is closed by band 22. Thus, the opening and closing of the holder as well as projection and retraction of the lipstick can be accomplished by one hand. The holder being placed in the palm of the hand, the downward pressure of knob 13 opens the holder at 22 and causes lipstick 3 to emerge. The extent to which lipstick 3 projects from the holder may be controlled by the knob 13 engaging a corresponding transverse slot 14. In order to retract the lipstick, knob 13 is released by a touch with the thumb or another finger.

In the modified embodiment illustrated in Figures 11-14, the flexible band is guided by two sprocket wheels in a manner similar to that illustrated in Figures 1-10. However, construction of the upper sprocket wheel and operation of the lipstick holder and the flexible band in this modified embodiment, are different from those described in connection with Figures 1-10. As shown in Figures 11-14, upper sprocket wheel 15a is turnably mounted on shaft 5. Said shaft 5 is disposed between casings 10a and 20a and extends turnably through openings in the side walls of these casings 10a and 20a. Shaft 5 is axially movable. A circular turning disc 30 which has a knurled peripheral edge, is turnably mounted on shaft 5 adjacent to the side wall of casing 10a. Disc 30 is secured to wheel 15a, being optionally integral therewith, and extends through openings in the walls of casing 10a, which prevent axial movement of said disc 30.

Collar 6 is fixedly secured to shaft 5, between wheel 15a and casing 20a, and has an integral flange 6a which normally abuts said wheel 15a. A spirally wound coil spring 29 is mounted on shaft 5 and collar 6. End 29a of said spring 29 is secured to casing 20a. The other end 29b of said spring 29 passes through a hole in flange 16a and is positioned in recess 15b in wheel 15a. Spring end 29b is axially movable in recess 15b, but it is not turnable with respect to sprocket wheel 15a. As a result, when disc 30 is turned, spring 29 is wound around shaft 5.

Normally, the longitudinal force of spring 29 holds flange 6a against sprocket wheel 15a, and shaft 5 is held in its outward position of Fig. 13. However, shaft 5 may be pushed inwardly, against the action of spring 29, to its inward position of Fig. 14.

Means are provided whereby disc 30 and wheel 15a may be releasably locked in place and prevented from turning when lipstick 3 projects from the holder. The end of shaft 5 which is within casing 20a has a wheel 7 mounted on the end thereof. This wheel 7 has one or more teeth 7a preferably integral therewith, and adapted to fit within one or more apertures 20b formed in the side wall of casing 20a. In the drawings,

wheel 7 is shown with one tooth 7a, and casing 20a with two apertures 20b.

Said tooth 7a serves as a pawl means for permitting rotation of shaft 5 in one direction, but not the other, when shaft 5 is in its normal position of Fig. 13. The rear surface 7b of tooth 7a is transverse to tooth 7a and remains in hole 20b when tooth 7a is turned against said surface 7b. The front surface 7c of tooth 7a slopes from the side of said tooth 7a toward rear surface 7b and forces tooth 7a out of hole 20b when tooth 7a is turned against said surface 7c.

When it is desired to use lipstick 3, shaft 5 is retained in its normal position of Fig. 13, and disc 30 is turned in a direction whereby tooth surface 7c bears against the side of hole 20b. As a result, wheel 7 is freely rotatable. Sprocket wheel 15a turns with disc 30 and causes the ejection of lipstick 3, just as in the first embodiment.

The rotation of sprocket wheel 15a causes spring end 29b to turn. This causes collar 6 and shaft 5 to rotate. Also, spring 29 is coiled around collar 6. When lipstick 3 is ejected to the desired extent, rotation of disc 30 may be stopped. The tension of coiled spring 29 causes it to tend to uncoil, thereby turning wheel 7 in the direction of tooth surface 7b. However, this causes tooth 7a to lock in one of the holes 20b. As a result, shaft 5 and collar 6 are locked in place, and spring end 29b locks sprocket wheel 15a, retaining lipstick 3 in its ejected position.

To retract lipstick 3, shaft 5 is pushed axially, against the force of spring 29, to the unlocking position of Fig. 14. Tooth 7a is thereby disengaged from hole 20b. Spring 29 uncoils. Spring end 29b, in its uncoiling motion, carries collar 6 and shaft 5, as well as sprocket wheel 15a, with it. This rotation of sprocket wheel 15a causes lipstick 3 to retract.

As will be understood from the above description, this modified form of my cosmetic holder may also be operated by one-hand action.

Optionally, the above described winding and locking mechanism used in the second embodiment may be of any convenient type, such as the types used in metal tape measures.

As will be apparent from the above description and the appended drawings, this invention is not restricted to the details shown and may be carried out with various modifications without departing from the spirit and scope of the invention as defined in the appended claims.

What is claimed is:

1. In a holder for cosmetic sticks of the type described, in combination an outer casing and an inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between spaced parallel walls of the outer and inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier housed by said inner casing and connected with the flexible band, adapted to receive a cosmetic stick, and longitudinally movable in the inner casing upon moving said band, manually operated means for causing said flexible band and the cosmetic stick holder to move and expose the

5

cosmetic stick, and spring means adapted to move said band and withdraw the cosmetic stick upon release of said manually operated means.

2. In a holder for cosmetic sticks of the type described, in combination an outer casing and an inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between spaced parallel walls of the outer and inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier housed by said inner casing and connected with the flexible band, adapted to receive a cosmetic stick, and longitudinally movable in the inner casing upon moving said band, a manually operable knob connected to the band, slidable in a longitudinally extending slot of the outer casing, adapted to engage transverse slots connected with said longitudinally extending slot, and to move the flexible band in order to expose the cosmetic stick, and spring means adapted to move said band and withdraw the cosmetic stick upon release of said knob.

3. In a holder for cosmetic sticks of the type described, in combination a rectangular outer casing and a rectangular inner casing provided at one of its sides with a longitudinally extending cut-out, and housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between parallel spaced walls of the outer and inner casing, the shafts of said wheels being secured to a wall of the inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a longitudinally extending row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier or cup housed by the inner casing and connected by means of a strip or tongue with the flexible band, adapted to receive a cosmetic stick and longitudinally movable in the holder and the cut-out of the inner casing, upon moving said band, a manually operable knob connected to the band, slidable in a longitudinally extending slot of the outer casing, adapted to engage transverse slots connected with said longitudinally extending slot, and to move the flexible band in order to expose the cosmetic stick, and spring means adapted to move said band and withdraw the cosmetic stick upon release of said knob.

4. In a holder for cosmetic sticks of the type described, in combination a rectangular outer casing and a rectangular inner casing provided at one of its sides with a longitudinally extending cut-out, and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end and a second sprocket wheel arranged at the other end of the outer casing between parallel spaced walls of the outer and inner casing, the shafts of said wheels being secured to a wall of the inner casing, a flexible band movable between said outer and inner casing, being provided with

6

a cut-out and a row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes arranged in a longitudinally extending row in the flexible band, a cosmetic stick carrier or cup housed by the inner casing and connected by means of a strip or tongue with the flexible band, adapted to receive a cosmetic stick and longitudinally movable in the holder and the cut-out of the inner casing, upon moving said band, a manually operable knob connected to the band, slidable in a longitudinally extending slot of the outer casing, adapted to engage transverse slots connected with said longitudinally extending slot, and to move the flexible band in order to expose the cosmetic stick, and a spring adapted to move said band and withdraw the cosmetic stick upon release of said knob, one end of said spring being connected to the bottom of the cosmetic stick carrier or cup, and the other end of the spring being secured to an element connected with the inner casing.

5. In a holder for cosmetic sticks of the type described, in combination a rectangular outer casing and an eccentrically arranged rectangular inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end and a second sprocket wheel arranged at the other end of the outer casing between parallel spaced walls of the inner and outer casing, a flexible band being provided with a cut-out and a longitudinally extending row of spaced holes, movable between said outer and inner casing and adapted to alternately expose and close the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, manually operated means for causing said flexible band to move in one direction and spring means adapted to move said band upon release of said manually operated means, in the opposite direction.

6. In a holder for cosmetic sticks of the type described, in combination an outer casing and an inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between spaced parallel walls of the outer and inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a longitudinally extending row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier connected with the flexible band, adapted to receive a cosmetic stick, and longitudinally movable in the inner casing upon moving said band, said first sprocket wheel being turnably mounted on its shaft, a disc fixedly secured to said first sprocket wheel and turnably mounted on the shaft thereof, said shaft being rotatable and axially movable, a collar fixedly mounted on said shaft, a spring having one end thereof secured to said inner casing and the other end thereof secured to said disc and to said collar, said spring normally holding said shaft in an outward position, a holding wheel concentrically and fixedly mounted on an end of said shaft inside said inner casing, pawl means permitting rotation of said wheel in only one ejecting direction when said shaft is in said normal outward

7

position, said disc being manually operable to cause said flexible band, said collar, said shaft and said holding wheel to move in said ejecting direction and to cause said spring to be coiled around said shaft upon turning said disc, said shaft being manually movable to an inward position releasing said pawl means, whereby said spring uncoils and causes said flexible band, said disc, said collar, said shaft and said holding wheel to move in a retracting direction opposite to said ejecting direction.

7. In a holder for cosmetic sticks of the type described, in combination an outer casing and an inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between spaced parallel walls of the outer and inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a longitudinally extending row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier connected with the flexible band, adapted to receive a cosmetic stick, and longitudinally movable in the inner casing upon moving said band, a manually operated disc mounted on the shaft of one of said sprocket wheels and secured to said sprocket wheel, whereby turning said disc in one direction causes said flexible band and said cosmetic stick carrier to move and expose said cosmetic stick, and spring means adapted to move said band and withdraw said cosmetic stick upon release of said manually operated disc.

8. In a holder for cosmetic sticks of the type described, in combination an outer casing and an inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between spaced parallel walls of the outer and inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a longitudinally extending row of spaced holes, and adapted to alternately cover and expose the opening of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier connected with the flexible band, adapted to receive a cosmetic stick, and longitudinally movable in the inner casing upon moving said band, a manually operated disc mounted on the shaft of one of said sprocket wheels and secured to said sprocket wheel, whereby turning said disc in one direction causes said flexible band

8

and said cosmetic stick carrier to move and expose said cosmetic stick, and spring means adapted to move said band and withdraw said cosmetic stick upon release of said manually operated disc, said spring means comprising a spiral spring having said shaft located in the interior thereof and having one end thereof secured to one of said casings and the other end thereof secured to said sprocket wheel, whereby turning said disc to expose said cosmetic stick coils said spring around said shaft.

9. In a holder for cosmetic sticks of the type described, in combination an outer casing and an inner casing housed by and connected with said outer casing, said outer casing having an opening at one of its ends, a first sprocket wheel arranged at one end, and a second sprocket wheel arranged at the other end of the outer casing between spaced parallel walls of the outer and inner casing, a flexible band movable between said outer and inner casing, being provided with a cut-out and a longitudinally extending row of spaced holes, and adapted to alternately cover and expose the openings of the outer casing, the sprockets of said wheels being adapted to engage said spaced holes in the flexible band, a cosmetic stick carrier connected with the flexible band, adapted to receive a cosmetic stick, and longitudinally movable in the inner casing upon moving said band, a manually operated disc mounted on the shaft of one of said sprocket wheels and secured to said sprocket wheel, whereby turning said disc in one direction causes said cosmetic stick carrier to move and expose said cosmetic stick, spring means adapted to move said band and withdraw said cosmetic stick upon release of said manually operated disc, and releasable locking means comprising pawl means releasably operatively connected to said disc and permitting rotation of said disc only in the direction whereby said cosmetic stick is caused to become exposed, releasing means for releasing said pawl means from said operative connection with said disc.

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