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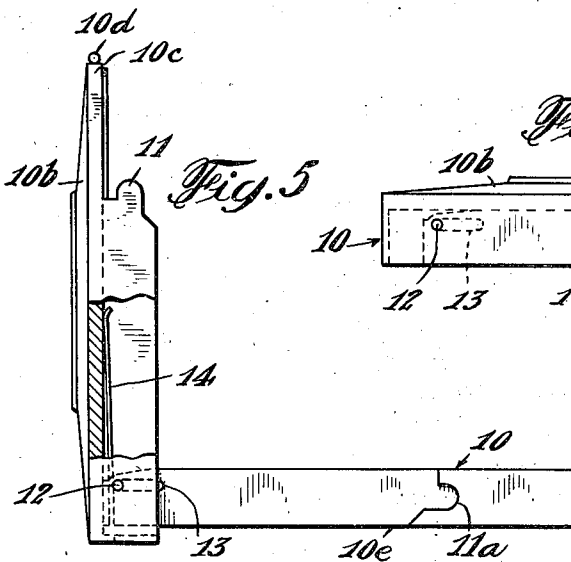
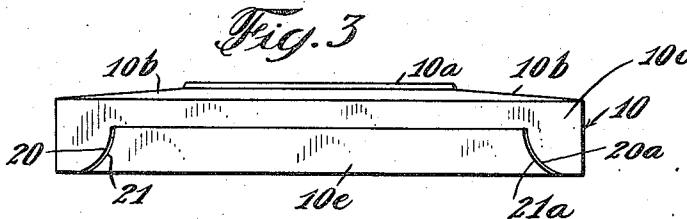
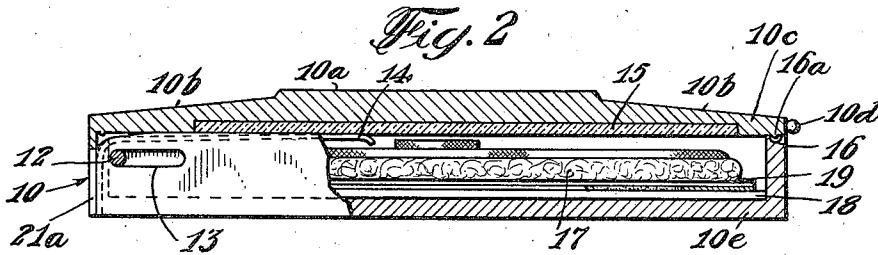
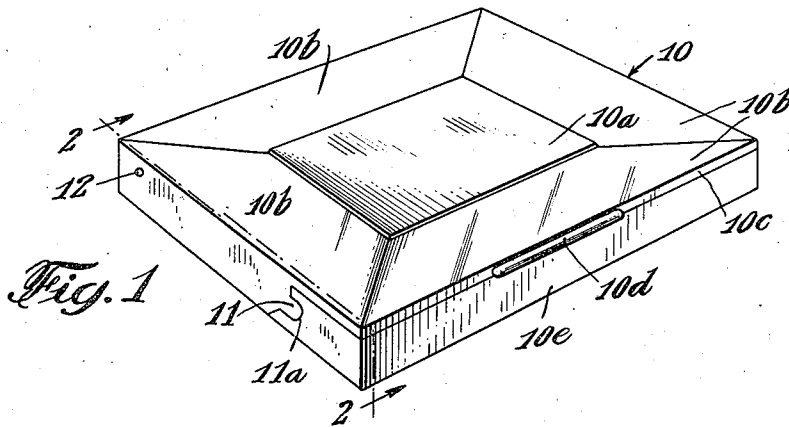
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2,415,357

INTEGRAL LATCH FOR SLIDING PIVOTED CLOSURES

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2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 6

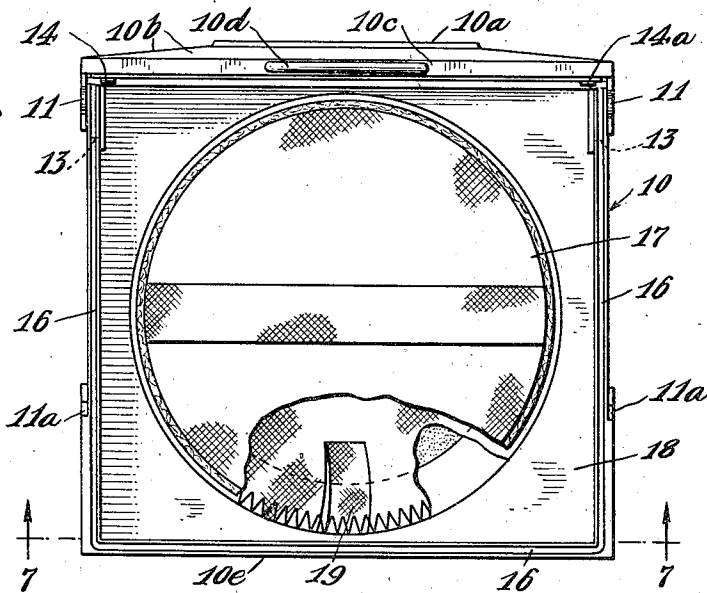


Fig. 7

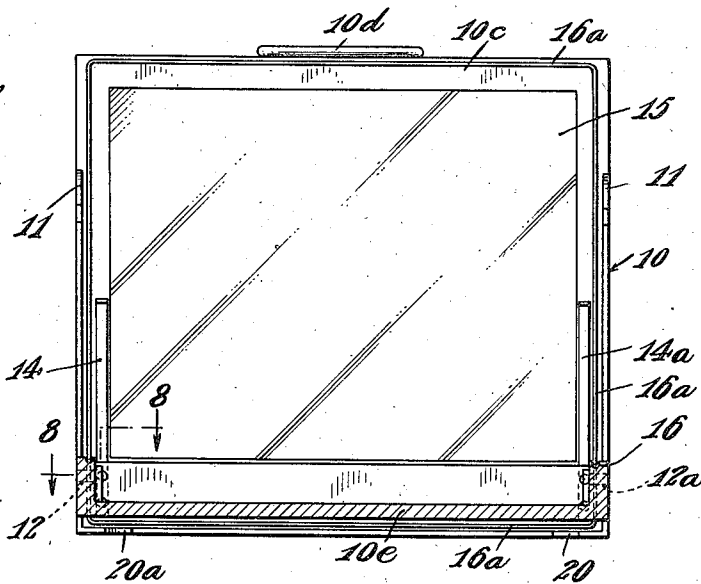
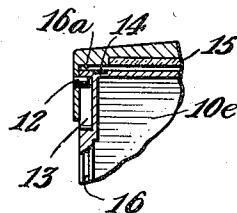


Fig. 8



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INTEGRAL LATCH FOR SLIDING PIVOTED CLOSURES

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5 Claims. (Cl. 220—38)

1

My invention relates to containers such as for instance compacts, vanity cases, cigarette cases, match boxes and the like, and which are particularly adaptable for containing and storing within said containers, face powder and a powder puff or pad or other contents; and also having a mirror affixed in the upper or lid portion thereof, when used as a vanity case.

An object of my invention is the production and formation of a container and more particularly a vanity case that can be readily manufactured from either metal or plastics or like materials; and further insuring uniformity in such manufacture by the elimination of ordinary locking and hinging means incident to the production of containers of this class.

A further object of the invention is to provide a container having novel means at the edges thereof to prevent the admission of dust or like foreign substances within said container when the latter is closed; and also said means preventing the escape of loose powder within said container or case.

A further object of the invention is the production of a container more particularly a compact case in which the lid portion of said container can be slid rearwardly to effect the opening thereof, and upon the completion of said opening, said lid being sprung automatically into a vertical open position under the tension of two flat springs situated at the sides of said lid. The open position of the lid aforesaid further exposes to view a mirror on the inside thereof where such is an integral part of said container; and also enabling ready access by the user to the powder puff and face powder or other material that may be contained in said container or vanity case.

A further object of the invention is the production of a container possessing all the utility previously mentioned and in addition requiring a minimum of parts, said parts being either stamped and formed of metal or plastic sheeting, or of molded plastic material.

Other objects will become apparent as the description of my invention proceeds.

In further description of my invention reference may be had of the drawings in which:

Fig. 1 is a perspective view of the vanity case or compact embodying the present invention;

Fig. 2 is an enlarged detail sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 shows a rear view of the invention;

Fig. 4 is a side elevational view with the cover pushed back ready to be opened;

2

Fig. 5 is a side elevational view showing the cover in open position;

Fig. 6 is a plan view of the casing showing the cover in open position;

Fig. 7 is a section taken on line 7—7 of Fig. 6 with certain parts omitted to show the present invention more clearly; and

Fig. 8 is a fragmentary view taken on the line 8—8 of Fig. 7.

Referring to the figures, Fig. 1 shows the compact case 10 in closed position. The lid portion 10a on the top thereof is in the form of a rectangle having sloping sides, each side forming a trapezoid 10b, the bases thereof forming the edges of the lid or cover 10c.

The formation of the lid portion 10a of the container as described enables a better and more convenient finger hold when pushing said lid portion rearwardly. This utility is extremely effective and desirable, and furthermore said formation of said lid portion adds to the artistic appearance of the container aforesaid.

The base section 10e of the case 10 is provided with a raised inset portion 11a on each side thereof, and having at the inner ends of each of said raised portions an incurvate formation and also above said incurvate formation and a continuation thereof, a short vertical line raised formation 11b.

The cover 10c is provided with raised portions 11 integral to the side walls of said cover and which have incurvate formations at each side wall thereof and are also further provided with short vertical line raised formations 11c, said incurvate formations on said cover 10c fitting conformingly into said incurvate formations on said base section 10e and against vertical line formation 11b when said cover is pushed forward thereby locking said cover 10c to the base section 10e.

The cover 10c is provided with hinge pins 12 which revolutely and slidably move in respective elongated grooves 13. The hinge pins 12 and the movement thereof in the respective grooves 13 form the hinging medium of the cover 10c, said pins revolutely movable in said grooves when the cover 10c is being moved vertically and said pins move horizontally within said grooves 13 when the cover 10c is being pushed back and forth to be either opened or closed.

The springs 14 are mounted on the inner base section 10e and rest resiliently against the cover 10c when said cover is in vertical or open position. The closure of said cover 10c causes said springs to bend over under tension of said closure,

3

and thereby forcing said cover to an upright position immediately upon the release thereof as already explained.

A mirror is provided inside of the cover 10c as shown in Fig. 7.

A linear groove 16 (Fig. 6) is provided all around the edge of the base section 10e of the compact 10.

Corresponding linear projections 16a surround the edges of the cover 10c and which snugly fit into the linear grooves 16 on the edges of the compact base 10e when the cover is closed.

Secured in the inside of the base section 10e is situated the powder pad or puff 17 with the accompanying face powder beneath the same.

18 is a cardboard base, and 19 is the inner filler upon which the powder puff 17 rests.

The lid is further held securely closed by the securing means at the rear of the compact 10. The cover 10c is provided with curved shaped portions 20, 20a, said shaped portions fitting into conformingly curved conformations 21, 21a situated at rear of the base section 10e (Fig. 3).

The manner of opening the compact case is as follows:

The base section 10e is held in the left hand preferably without touching any portion of the cover 10c. Then with the fingers of the right hand, pressed against the cover portion 10b the lip 10d is pushed backward thereby causing said cover to slide rearwardly, said sliding of said cover being maintained evenly and accurately through the medium of the pins 12 slidably movable in the grooves 13a and 13b respectively. When the incurvate formations 11 of lid 10c shall have cleared the conforming incurvate inset formations 11a, the cover 10c is released and snaps into open upright position under the tension of the spring 14. The compact is now available for the extraction or use of the inner contents and as already stated the mirror 15 is also conveniently available.

It will thus be seen that a compact case is provided having two main parts, viz.; a cover and a base, said cover being enabled to slide rearwardly a predetermined distance within the limit of the respective elongated grooves 13 and causing the release of said cover and its recoil into vertical position under the stored tension of the springs 14. In a reversed manner the cover is pressed downward to the level of the base 10e and against the tension of the springs 14 and said cover is then slid forwardly until it is locked, said locking due to the incurvate formations 11 on the cover 10c being moved into the corresponding incurvate inset formations 11a on each side of the base 10e of the compact case 10.

The cover and base sections of said compact are readily die formed or cast, and the assembly thereof is obviously a simple operation, thereby providing an efficient device which can be produced at a comparatively low cost.

Obviously my invention is susceptible of embodiment in forms other than that illustrated in the accompanying drawings and I therefore consider as my own all modifications and adaptations of the form of the device herein described which fairly fall within the scope of the appended claims.

What I claim is:

1. In an article of manufacture of a container having a base and a cover therefor, said cover having hingedly connecting means with said base enabling a horizontal and vertical movement thereof; locking means for locking said cover on

4

the side of said cover and said base; spring means mounted on the base of said container and contiguous to said cover, said spring means to move said cover to a vertical position upon the unlocking of said locking means, said container being locked by said locking means by the horizontal forward movement of said cover up to the limit lock stop thereof, and the unlocking of said cover attained by the horizontal rearward movement of said cover up to the point of release of said locking means, and upon the release thereof said cover is moved to a vertical position under the impulse of the spring means aforesaid.

2. In an article of the class described of a container comprising a base section and a cover, said cover hingedly connected with said base section by means of a pin at the rear end of each side thereof, said pins slidable and revoluble in corresponding elongated grooves at the rear end portion of said base section enabling horizontal movement of said cover rearwardly and also permitting upward swinging movement thereof; spring means at the underside of said cover and connected to said base section for the lifting of said cover into upward and open position upon the release thereof; locking means in said device, said locking means comprising a raised portion of the wall on each side of said base section adjacent the front thereof, said raised portion having at one end thereof an incurvate formation and also having above said formation and a continuation thereof a short straight vertical line raised portion; said cover having correspondingly mating formations on each side wall thereof which fit into said formations on said base section upon the forward movement of said cover thereby causing the locking of said cover to said base section; and said cover being released from said locking means upon the rearwardly movement of said cover, said release of said locking means permitting the upward swing of said cover under the impulse of the spring means aforesaid.

3. In an article of the class described of a container comprising a base section and a cover therefor, hinging means on said base and said cover adjacent the rear thereof enabling the slidable horizontal movement of said cover and also for the upward swinging movement thereof, spring means mounted on said base section and contiguous to said cover for the swinging thereof to an upright position upon the release of locking means on said container, said locking means comprising a raised portion of the wall on each side of said base section adjacent the front thereof, said raised portion having at one end thereof an incurvate formation and above said formation and a continuation thereof having a short straight vertical line raised portion, and said cover having correspondingly complementary formations on each side wall thereof and which fit into said incurvate formations and against said straight line vertical portions upon the forward movement of said cover causing the locking of said cover to said base section; and said cover becoming released from said locking means upon the rearwardly movement of said cover, said release permitting the upward swing of said cover under the impulse of the spring means aforesaid.

4. In an article of manufacture comprising a container including a base section and a cover therefor, said cover hingedly connected with said base through the medium of a pin at the rear end of each side of said cover, said pins respectively

5

slidable and revoluble in corresponding elongated grooves at each side of said base adjacent the rear thereof; locking means comprising a raised portion of the wall on each side of said base section, said raised portion having at the front end wall section thereof an incurvate formation, having also above said formation and a continuation thereof a short straight vertical line raised portion; said cover having complementary mating formations on each side wall thereof and which fit into said formations on said base sections upon the forward movement of said cover causing thereby the locking of said cover to said base section; and said cover becoming released from said locking means upon the rearwardly movement of said cover, said release permitting the upward swing of said cover under the impulse of the spring means aforesaid.

5. In an article of manufacture comprising a container, said container including a base section and a cover therefor, said cover hingedly connected with said base by means of a pin at the rear end of each side thereof, said pins slidable and revoluble in corresponding elongated grooves at the rear of said container base; locking means on the side walls of said cover and said base, said locking means comprising a raised portion on each of said walls on the sides of said base section adjacent the front thereof, each of said raised portions having an incurvate formation, and above said formation and a continuation thereof having a short vertical line raised portion, said cover having complementary mating formations upon each side wall thereof which fit into said

6

incurvate formations and against said vertical line formations on said base upon the forward movement of said cover on said base section; and said cover becoming released from said locking means upon the rearwardly movement thereof, said release permitting the upward swing of said cover under the impulse of said spring means; said container having further securing and stabilizing means at the rear end thereof, said further securing means comprising cutaway curved conformations at opposite ends of said rear base section, and said cover having correspondingly curved raised conformations at the rear end thereof which conformingly fit into said curved conformations on said base upon the closure of the cover aforesaid.

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