Feb. 3, 1942. C. H. DAHLGREN 2,271,630

CONTAINER

Filed Sept. 14, 1939

Fig. 1

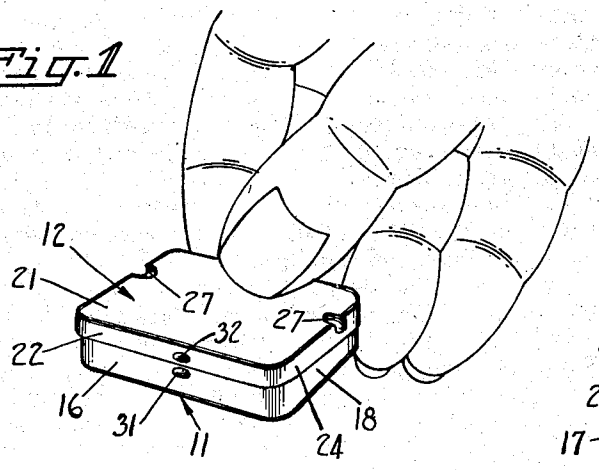


Fig. 2

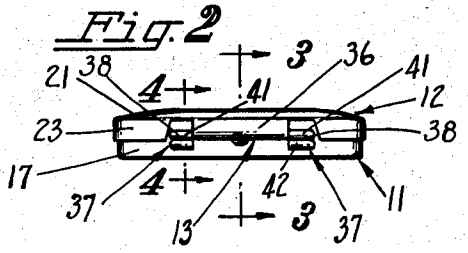


Fig. 3

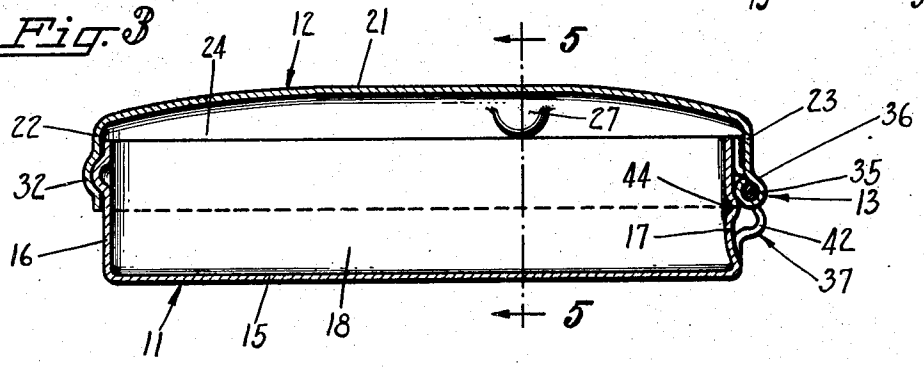


Fig. 4

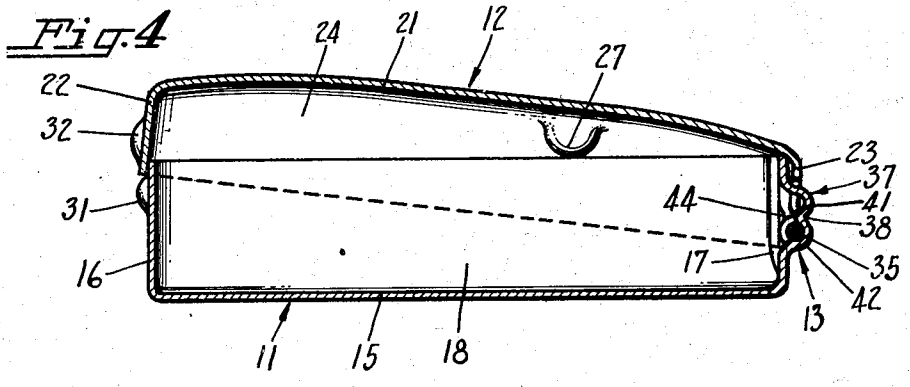
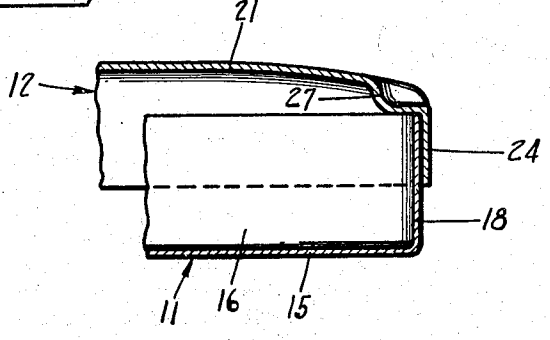


Fig. 5



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2,271,630

CONTAINER

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3 Claims. (Cl. 220—36)

The present invention relates to containers such as hinge cover tablet boxes and the like and has particular reference to an improved floating hinge which has a cover locking feature.

An object of the invention is the provision of a hinge cover tablet box wherein the cover is retained in place by a floating hinge having a locking feature which operates in conjunction with interlocking nodes located in an opposite edge of the box and which thereby hold the cover in place against accidental opening.

Numerous other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawing, discloses a preferred embodiment thereof.

Referring to the drawing:

Figure 1 is a perspective view of a tablet box embodying the instant invention, the view showing the box in a partially opened position and also showing a portion of a hand illustrating how the box is opened to such a position;

Fig. 2 is is a rear elevation of the box shown in Fig. 1;

Figs. 3 and 4 are enlarged sectional views taken substantially along the respective lines 3—3, 4—4 in Fig. 2 and showing the cover of the box in different positions; and

Fig. 5 is a fragmentary section taken substantially along the line 5—5 in Fig. 3.

As a preferred embodiment of the instant invention the drawing discloses a rectangular shaped, sheet metal tablet box which includes a body member 11 and a cover member 12 which are permanently connected by a floating hinge 13. These members are preferably of a one-piece die-drawn construction.

The body member 11 comprises a flat bottom wall section 15 which at its outer edges merges into a continuous surrounding upright or body wall. The body wall includes a front wall section 16, a rear or hinge wall section 17, and a pair of connecting side wall sections 18. These wall sections are preferably of the same height thereby making a smooth and straight top or terminal edge for the body.

The cover member 12 comprises a semi-flattened dome-shaped top wall section 21 which at its outer edges merges into a continuous surrounding and depending flange wall. This flange wall includes a front wall section 22, a rear hinge wall section 23, and a pair of connecting side wall sections 24. These cover wall sections extend down adjacent to and outside of the body walls when the cover is in place on the body.

The top wall section 21 of the cover is formed with a pair of fulcrum bosses 27, one on each side, adjacent the side wall sections 24 each boss being bent inwardly or indented into the wall as shown clearly in Figs. 1 and 3. The two fulcrum bosses rest on the terminal edge of the body 11 when the cover is in place thereon. The remainder of the cover top wall section 21 is spaced above and clear of the body walls.

At the front edge of the box the cover is locked when in closed position by a pair of co-operating nodes or projections 31, 32 which extend outwardly from the respective front walls 16, 22 of the body and the cover.

Along the rear edge of the box, the cover is secured to the body by the hinge 13. This hinge includes a wire pintle 35 which is carried in a lug 36 formed in the rear wall section 23 of the cover. The ends of the pintle project beyond the lug and extend into and operate within a pair of spaced and vertically elongated hinge lugs 37 formed on the rear wall 17 of the body.

Provision is made for locking the pintle 35 in predetermined positions within its elongated hinge lugs 37. For this purpose each elongated lug 37 intermediate its width is formed with an inwardly extending indentation 38 which divides the lug into two pintle locking sections, an upper lug section 41 and a lower lug section 42. Co-operating with the indentation 38 there is a similar indentation or bead 44 which extends outwardly from the body rear wall section. This bead is located between the elongated hinge lugs 37 and is in horizontal alignment with the lug indentations 38.

When the cover is in closed position on the body with the fulcrum bosses 27 resting on the top edge of the body side wall sections 18 and with the cover locking nodes 31, 32 engaged one within the other, the ends of the hinge pintle 35 are locked in the upper lug section 41 of the elongated lugs 37 with the pintle resting on the indentations 38 and the pintle lug 36 resting on the bead 44. To open the cover it is merely necessary to press or pinch the rear edges of the cover and body members together. Such a pinching action rocks the cover on its fulcrum bosses 27.

Rocking of the cover raises its front edge and thus disengages the locking nodes 31, 32 thereby releasing the cover and placing it into a partially opened position, as shown in Fig. 4. This same rocking action of the cover depresses the cover hinge lug 36 and the pintle 35 carried

therein. The cover hinge lug snaps over the hinge locking bead 44 and the pintle pushes past the indentations 38 in the body hinge lugs 37. This action brings the pintle into the lower lug sections 42. The pintle is now locked in the lower lug sections 42 where it remains while the cover is raised into a full open position to gain access to the interior of the box.

When the cover is again closed down on the body the hinge pintle moves up from the lower lug sections 42 and snaps into the upper lug sections 41 where it is again locked. At the same time the locking nodes at the front edge of the box are re-engaged. Hence the cover is locked along both its front and its rear edges and this prevents accidental opening of the cover.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A hinge cover tablet box and the like, comprising a body member including upstanding walls, a cover member having depending flange walls, a floating hinge including a lug on the rear wall of said cover and a movable pintle tightly embraced by said lug, said hinge further including spaced vertically elongated lug members on the rear wall of said body member movably engaging the opposite ends of said pintle for permanently connecting said body and cover members, and means in said body lug members for removably locking said pintle in one position when the cover member is closed on said body member and in another position when the cover member is open.

2. A hinge cover tablet box and the like, comprising a body member having front, rear and side wall sections, a cover member also having front, rear and side wall sections, a pair of fulcrum bosses formed in said cover member adjacent its side wall sections and resting on the top edge of said body side wall sections when the cover member is in closed position on the body member, interlocking nodes in the front wall sections of said cover and said body members for locking the cover member closed along its front edge, a floating hinge including a movable pintle tightly secured at its intermediate portion to said cover member and movably secured at its opposite ends to said body member, said pintle permanently connecting said members along their rear edges and adapted to permit rocking movement of said cover member on its fulcrum bosses when pressure is applied to the cover rear edge, and locking means in said hinge for locking said pintle against accidental movement when the cover member is in a closed position.

3. A hinge cover tablet box and the like, comprising a body member having a rear wall section, a cover member also having a rear wall section, a floating hinge permanently connecting said members along their rear wall sections and adapted to permit rocking movement of said cover, said hinge including a pintle secured in a boss formed on the rear wall section of the cover member, the ends of said pintle operating in a pair of spaced elongated lugs formed on the rear wall section of said body member, a projection formed inwardly in the side of said body hinge lugs intermediate their width and dividing said lugs into an upper and a lower lug section, and a cooperating outwardly extending projection formed in said body rear wall section between said body hinge lugs and in line with said first mentioned projection thereby forming a lock for holding said pintle in the upper lug sections of said hinge lugs when the cover member is in a closed position while permitting movement of the pintle from the upper to the lower lug sections when the cover is opened.

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