

March 10, 1936.

O. M. DRIESS

2,033,760

BOX

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Fig. 1.

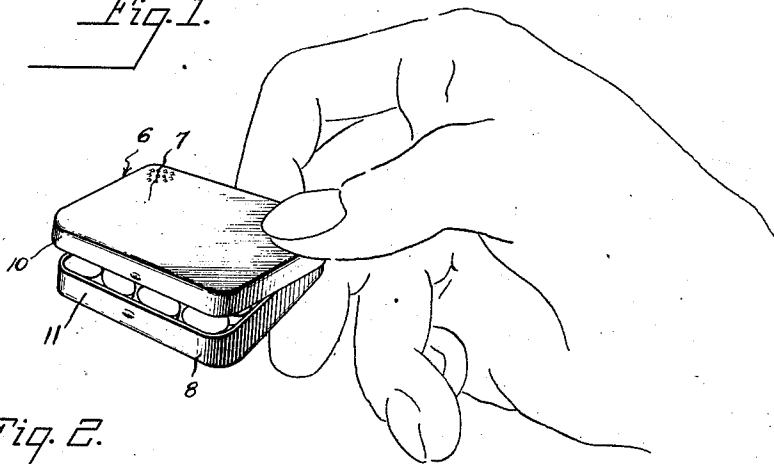


Fig. 2.

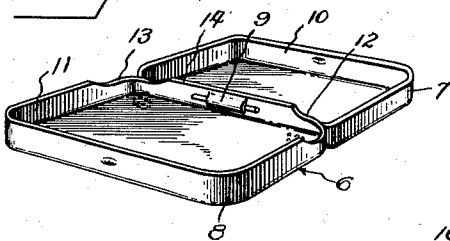


Fig. 3.

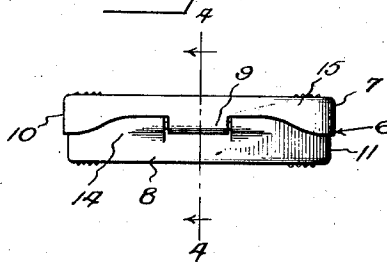


Fig. 4.

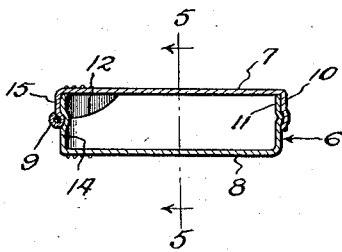
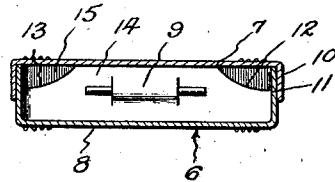


Fig. 5.



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UNITED STATES PATENT OFFICE

2,033,760

BOX

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4 Claims. (Cl. 220—43)

This invention relates to metallic boxes or the like adapted to hold tablets, powders, and similar products, and is designed to facilitate opening the same by applying pressure on one or both of the rear corners, thus preventing spilling of the contents.

Heretofore various two-part boxes not hingedly connected, have been constructed so that upon pressure being exerted on one or more sides, the box may be forced open, but often the contents of the box will be discharged therefrom. By using a hinged box, the package is under greater control and there is less danger of losing or spilling the same, but the problem of opening the unsecured side is presented. The usual method of pressing on the face of the box and using the fingernail to raise the lid may be employed, but often the pressure results in a distorting of the other side and it requires the exertion of unusual effort on the part of the person opening the box, with the result that the contents of the package are spilled.

In my invention, I have solved this problem so that the hinged box may be used, and at the same time, by exerting pressure on one corner of the box adjacent the hinge, the unsecured edges will be forced part, permitting the removal of the contents.

The principal object of my invention consists in facilitating the opening of a hinged box by pressure being exerted adjacent the hinge without the necessity of prying the unsecured edges apart.

Another object is constructing a two-part box, having the top and bottom thereof hingedly connected at one side, that portion of the box adjacent the hinge so constructed that upon pressure being exerted on either side of said hinge that the opposite side of the box will be forced open.

Other objects will be disclosed in the specification and claims forming a part of this application.

In the drawing:

Figure 1 is a perspective showing pressure being exerted on one corner of the box in a partly opened position;

Figure 2 is a perspective showing the interior of the box in open position;

Figure 3 is a rear elevation;

Figure 4 is a vertical section taken on line 4—4 of Figure 3; and

Figure 5 is a section taken on line 5—5 of Figure 4.

Referring to the drawing, in which similar parts are designated by like numerals:

Numerals 6 designates a container of metallic material, or the like, comprising a top 7, bottom 8, connected by a hinge 9. Top 7 has a skirt 10 adapted to fit over side 11 extending up from the bottom 8. The interior of the top 7 is adapted to rest and be supported by the front and forward portions of the side 11. The rear corners 12 and 13 of the side 11 and rear side 14 are cut away to form recesses below the adjacent sides 11 and 14. The rear side 14 is substantially horizontal between the said recesses and is of the same height as the side 11. The top 7 has its rear side 15 concavely cut-away adjacent the hinge 9, the hinge 9 being so positioned as to bring the rear side 14 into contact with the top 7 while the box is in slightly open position, as shown in Figure 1. The rear side 14 acts as a fulcrum upon the box being closed, pulling against the hinge member 9 and serving to place the top of the box under tension. The concave cut-away portion of the rear side 15 serves to facilitate this movement by presenting little material at these points so as to lessen the resistance against the opening of the box. The rear corners 12 and 13 on their exterior are roughened to facilitate the exerting of pressure at these points by the operator. A catch of the usual construction is formed at the front to keep the box closed against accidental opening.

As actually used, the container 6 will be filled with tablets, or the like; and, upon pressure being exerted on either of the corners 12 or 13 adjacent the hinge member 9, the top 7 will be forced away from the bottom 8 and the container will be partly opened so that the contents thereof can be removed. This obviates the danger of spilling the contents where the old type box is used necessitating the insertion of the fingernail under the top edge, or pulling apart of the bottom from the top.

Numerous variations may doubtless be devised by persons skilled in the art without departing from the principles of my invention. I, therefore, desire no limitations to be imposed on my invention, except such as are indicated in the appended claims.

What I claim is:

1. A box comprising a top and a bottom portion, a hinge at the rear connecting the two portions, a skirt depending from the top and surrounding the side edges of said bottom, that portion of the bottom sides adjacent the hinge cut-away and that portion of the rear skirt adjacent the hinge connection cut-away, the rear portion of the bottom carrying the hinge adapted

to contact the top while the box is in open position, and forming fulcrum points adjacent said hinge adapted to place said top under tension and force said top open upon pressure being exerted upon a rear corner.

- 5 2. A box comprising a top and bottom having overlapping sides, the rear corners of said bottom cut-away, the back side of said top having a hinge member formed thereon and that portion
10 adjacent the hinge member and the rear corners cut away, the rear side of the bottom member having a hinge member connecting with the upper hinge member to form a hinge connection between the top and bottom, said hinge member
15 positioned below the horizontal plane of contact between the top and the bottom sides, that portion of the rear bottom member beneath the cut-away portion of the rear top member forming fulcrum points of contact with the top of the box
20 while said box is in partially open position, said top being under tension when closed and adapted to be opened when pressure is exerted on one of the rear corners.

- 25 3. A box comprising a top and bottom having overlapping sides, the rear corners of said bottom convexly cut-away, the back side of said top having a hinge member formed thereon and that portion adjacent the hinge member concavely

cut-away, the rear side of the bottom member having a hinge member connecting with the upper hinge member to form a hinge connection between the top and bottom, said hinge member positioned below the horizontal plane of contact between the top and the bottom sides, fulcrum points in contact with the top portion while said box is partially open formed beneath the cut-away portion of the rear top member, said box being under tension when closed and adapted to be opened upon pressure being exerted on one of the rear corners.

4. A box comprising a top and a bottom portion, means at the rear connecting the two portions, a skirt depending from the top and surrounding the side edges of said bottom, a portion of one of the bottom sides adjacent the connecting means cut away, and a corresponding portion of the rear skirt adjacent the connecting means cut away, the rear portion of the bottom carrying the connecting means adapted to contact the top while the box is in open position and forming a fulcrum point adjacent said connecting means adapted to place said top under tension and force said top open upon pressure being exerted upon the rear corner having the cut away.

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