Aug. 13, 1935. A. O. DALLER 2,011,438

CONTAINER

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Fig. 1.

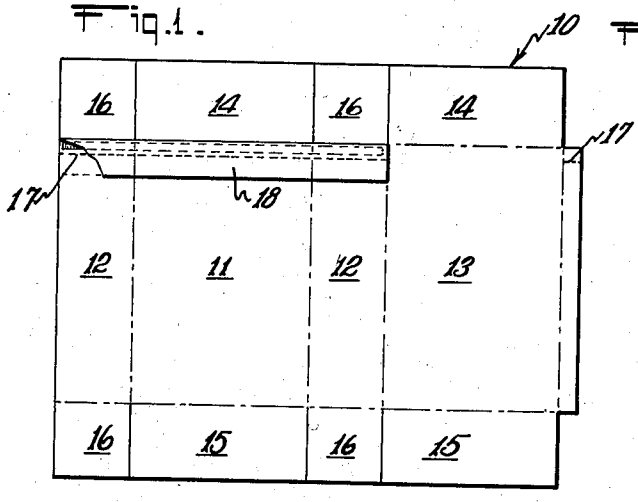


Fig. 2.

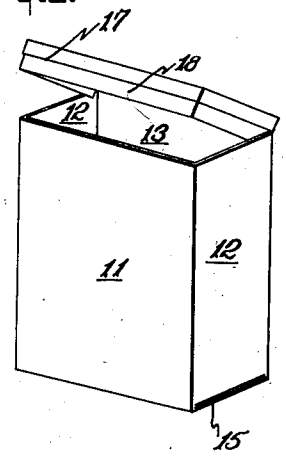


Fig. 3.

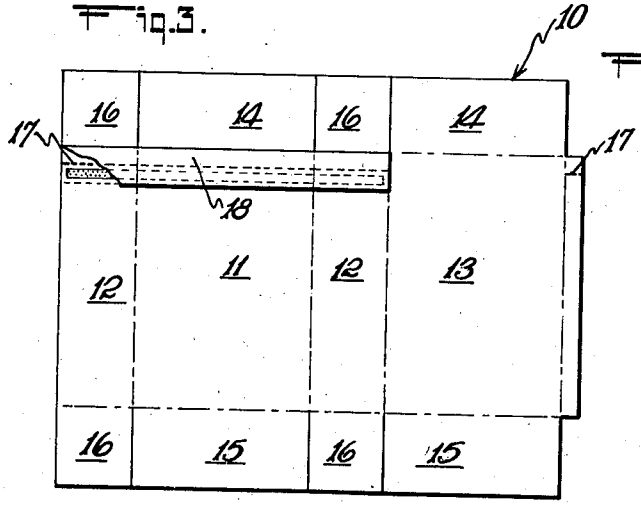
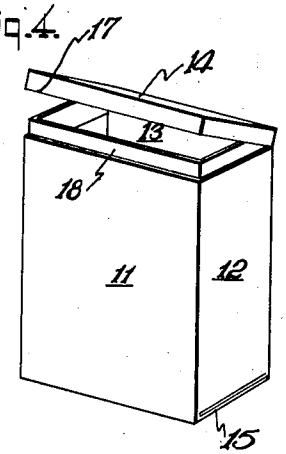


Fig. 4.



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Fig. 5.

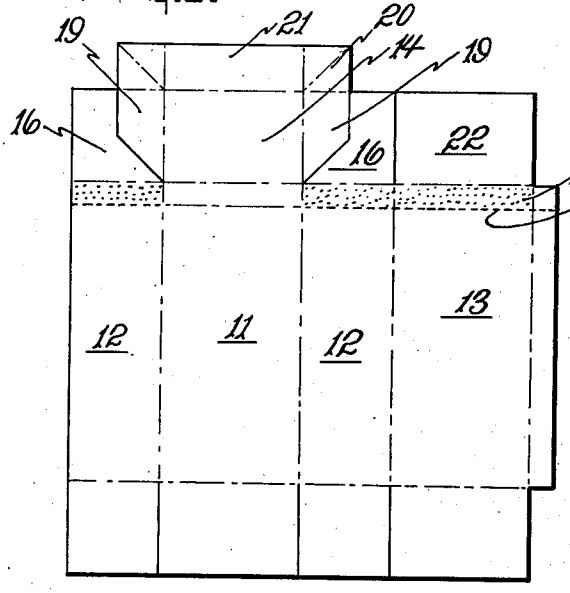


Fig. 6.

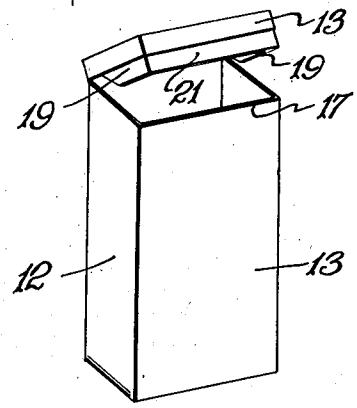


Fig. 7.

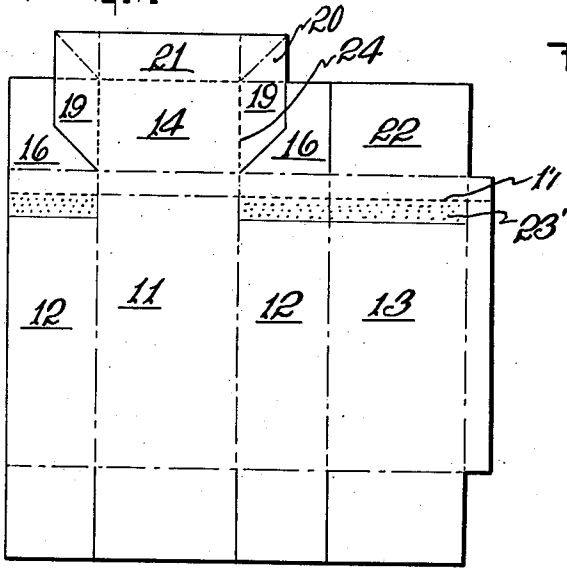
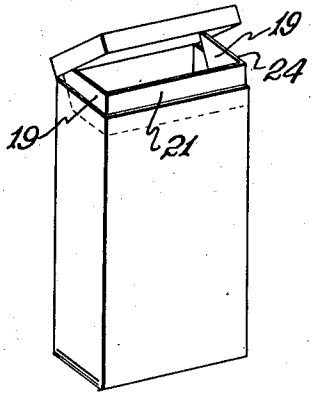


Fig. 8.



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UNITED STATES PATENT OFFICE

2,011,438

CONTAINER

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Application January 5, 1934, Serial No. 705,320

12 Claims. (Cl. 229—51)

This invention relates to containers and more specifically to tight-seal containers.

In general, it is an object of the invention to provide a device of the character described, which will efficiently attain the purpose for which it is intended, which is simple and economical of construction, which can be expeditiously and conveniently manipulated and which can be readily manufactured and assembled.

Another object of the invention is to provide a container which will guard the contents therein after it has been opened; and to make such a container from a single piece of material.

Another object is to provide a tight-sealed container which has a severable hinged cover and which is still sealed to a certain extent after the cover has been severed.

Other objects of the invention will in part be obvious and will in part appear hereinafter.

The invention accordingly comprises an article of manufacture possessing the features, properties and the relation of elements which will be exemplified in the article hereinafter described and the scope of the application of which will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description taken in connection with the accompanying drawings, in which:

Fig. 1 is a plan view of a blank embodying one form of the invention;

Fig. 2 is a perspective view of a device formed from the blank shown in Fig. 1;

Fig. 3 is a plan view of a modification of the blank shown in Fig. 1;

Fig. 4 is a perspective view of a device formed from the blank shown in Fig. 3;

Fig. 5 is a plan view of a modification of the blank shown in Fig. 1;

Fig. 6 is a perspective view of a device formed from the blank shown in Fig. 5;

Fig. 7 is a plan view of a modification of the blank shown in Fig. 5; and

Fig. 8 is a perspective view of a device formed from the blank shown in Fig. 7.

In the drawings, 10 denotes a blank adapted to be formed into a carton and comprising front, side, back, top and bottom sections 11, 12, 13, 14 and 15, respectively, and folding tabs or sections 16. Means are provided whereby when the device has been tight sealed with appropriately-placed adhesive, it can be opened. This may take the form of a weakened or score line 17 extending along the front and side sections and predeterminedly spaced from the top edge thereof. When it is desired to open the carton, the score line is severed and the cover section, with those portions of the front and side sections above the score line may be hingedly opened about an axis lying in the back section. The front and side sections may be considered as having an upper edge at the score line and the material above the score line may be termed extensions leading and secured to the cover section.

Means are provided for guarding against leakage of the contents out of the container through the score line after the cover has been opened and put back in place. These may take the form of a strip of material 18 secured, preferably by an adhesive, to those parts of the front and side sections lying above the score line. The strip extends down past the score line and overlies at least a part of the front and side sections. It may also be attached to the top of the back section. It may be attached to the blank while the latter is flat, or it may be attached by the folding mechanism during the folding process. When a sealed carton so constructed is opened by the breaking of the score line and the raising of the cover, the strip 18 will depend from the sections which depend from the cover and when the cover is thereafter set down again the strip acts as a guard overlying the slit portion, and as a guide properly to position and to hold in position the cover and the sections depending therefrom.

Fig. 3 shows a modification of the device shown in Fig. 1. In the modified form, the strip 18 is secured to the front and side sections below the score line 17 so that when the cover is raised after the score line is broken, the strip remains attached to the bottom portion of the container and not to the cover.

The means which guard against leakage after the device has been unsealed, may be formed from the same blank from which the remainder of the device is formed and may be integral with said remainder. Such a blank and device are illustrated in Figs. 5 and 6, wherein sections 19, 20 and 21 adjacent the cover section 14, are connected to or preferably left integral with section 14, the sections 19 being a part of and severed from the body of material which would normally constitute a portion of the sections 16. A score line 17 is provided in the front and side sections dividing them into upper and lower parts. Sections 19 and 21 extend away from section 14

farther than the distance between the top of the front and side sections and the score line 17.

Means are provided for securing the sections 19 and 21 to the walls of the container. These may be an area of glue 23 on the inner surface of side and front walls positioned above the score line 17. When the upper part of the container is hingedly raised, as hereinafter explained, the sections 19 and 21 will be integral with that part and extend down beyond the glued area and the score line 17.

In forming the device from the blank, the front, back and side sections are folded together at any convenient time. Section 14 is folded over at right angles to the back and the sections 19 and 21 at right angles to the cover section 14. Sections 19 and 21 thus form depending flanges from the cover section which lie inside the front and side walls. Sections 20 may be turned under or over as folds or they may be removed. Sections 16 and the cover section 22 extending from the front section 13, may be folded over section 14.

To open the device, the score line 17 is severed and the cover with its overlying layers 16 and 22 may be hingedly raised. Depending from layers 16 and 22 are the portions of the side and front walls originally above the score line and within these there are the sections 19 and 21 depending from the cover section 14. The sections 19 and 21 depend farther than the others. When it is desired to reclose the device, the sections 19 and 21 lie across the severed score line and form an apron partially to seal off the contents of the device and prevent them from seeping out through the severed score line. These sections also act to position and hold in position the hinged portion of the carton.

The modification shown in Figs. 7 and 8 is similar to that shown in Figs. 5 and 6 except that the glue area 23' on the surface of the side and front walls is positioned below the score line 17. A very heavy score line 24 separates the sections 19, 20 and 21 from the section 14. When the upper part of the container is hingedly raised, as hereinafter explained, the sections 19, 20 and 21 separate along the score line 24 from section 14 and remain attached to the front and side sections 11 and 12 and extend above them.

It is understood that the invention described and claimed herein is not to be limited by the particular terminology employed or by the relative dimensions of the portions shown in the drawings. For example, those parts referred to as covers may be sides, ends or bottoms and vice versa and the box or carton may be broader than it is tall.

Since certain changes may be made in the above article and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which, as a matter of language, might be said to fall therebetween.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a device of the character described, the combination comprising a section, a section hinged to said first section, other sections adjacent said hinged section, and extension means secured to said hinged section and adapted to lie along all said adjacent sections at certain positions of said hinged section, said hinged section being separated from at least a part of said adjacent sections by a score line.

2. In a device of the character described, the combination comprising a section, a cover section hinged to said first section, other sections adjacent to said cover section, and extension means secured to said hinged section and adapted to lie along all said adjacent sections at certain positions of said hinged section, said hinged section being separated from at least a part of said adjacent sections by a score line.

3. In a device of the character described, the combination comprising a section, a section hinged to said first section, other sections adjacent thereto and extension means secured to said hinged section and adapted to underlie all said adjacent sections at certain positions of said hinged section, said hinged section being separated from at least a part of said adjacent sections by a score line.

4. In a device of the character described, the combination comprising a section forming at least a portion of a wall, a cap-shaped section hinged thereto, other sections adjacent said cap-shaped section, and extension means secured to the inner side of said cap-shaped section and adapted to lie along all said adjacent sections at certain positions of said cap-shaped section, said hinged section being separated from at least a part of said adjacent sections by a score line.

5. In a device of the character described, the combination comprising a section forming at least a portion of a wall, a cap-shaped section hinged thereto, other sections adjacent said cap-shaped section, and extension means secured to and extending along the inner side of the exposed edge of said cap-shaped section and adapted to lie along all said adjacent sections at certain positions of said cap-shaped section, said hinged section being separated from at least a part of said adjacent sections by a score line.

6. In a device of the character described, the combination comprising a base portion, a hinged portion adapted to act as a cover, sections adjacent said hinged portion and having extensions attached to said cover, score lines separating said adjacent sections from said extensions, said extensions adapted for becoming flanges on said hinged section when said score lines are severed, and means attached to said extensions and adapted to lie along said adjacent sections at certain positions of said hinged portion.

7. In a device of the character described, the combination comprising a base portion, a hinged portion adapted to act as a cover, sections adjacent said hinged portion and having extensions attached to said cover, score lines separating said adjacent sections from said extensions, said extensions adapted for becoming flanges on said hinged section when said score lines are severed, and means attached to at least one of said extensions and adapted to lie along all of said adjacent sections at certain positions of said hinged portion.

8. In a device of the character described, the combination comprising a base portion, a hinged portion adapted to act as a cover, extension means integral with one of said portions and adapted to lie along the other portion when said hinged portion is in closed position, said portions being set off at least in part from each other by a severable score line.

9. In a device of the character described, the combination comprising a base portion, a hinged section, sections adjacent to said hinged section, and extension means integral with said hinged section and adapted to lie along said adjacent sections at certain positions of said hinged section, said hinged section being separated from at least a part of said adjacent sections by a score line.

10. In a device of the character described, the combination comprising a base portion, a cover section, sections adjacent said cover section having extensions associated with said cover section, severable score lines in said adjacent sections, and an extension integral with said cover section and reaching beyond said score lines.

11. A blank for forming a carton comprising front, back, and side walls, extensions from each of said walls adapted to overlap to form a cover, score lines setting off a portion of each of said front and side walls whereby said set-off portion will remain integral with the extensions from said walls when said score lines are broken, a plurality of elements integral with the extension from said rear wall, said elements being adapted to be folded about said extension to form a flange depending therefrom, and means to affix a portion of each of said elements to that wall of the carton which it overlies when said carton is assembled.

12. A blank for forming a carton comprising front, back, and side walls, extensions from each of said walls adapted to overlap to form a cover, score lines setting off a portion of each of said front and side walls whereby said set-off portion will remain integral with the extensions from said walls when said score lines are broken, a plurality of elements integral with the extension from said rear wall, said elements being adapted to be folded about said extension to form a flange depending therefrom, means to affix a portion of each of said elements to that wall of the carton which it overlies when said carton is assembled, and means to permit an easy severance of said elements from the said extension of said rear wall.

ADRIAN O. DALLER.