Oct. 31, 1944. R. E. SMITH 2,361,659

BOX OR CONTAINER

Filed July 15, 1942

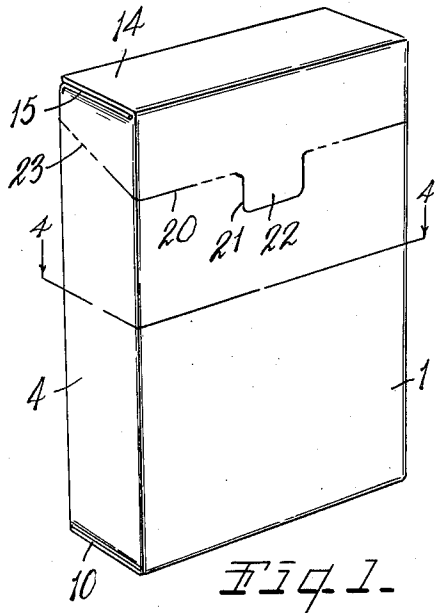


Fig. 1.

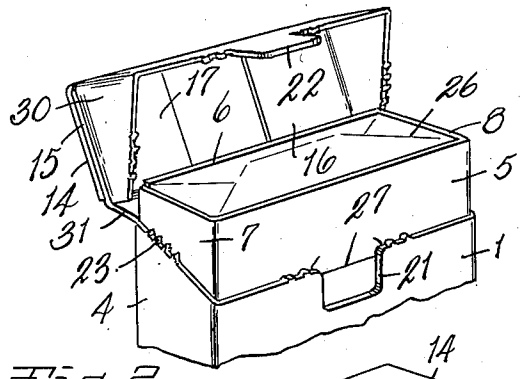


Fig. 2.

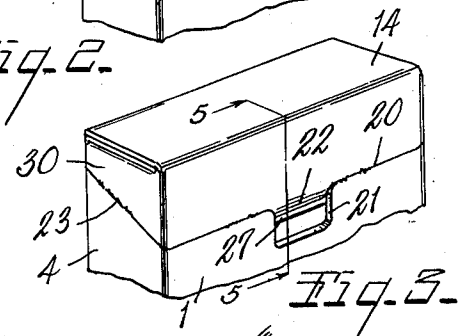


Fig. 3.

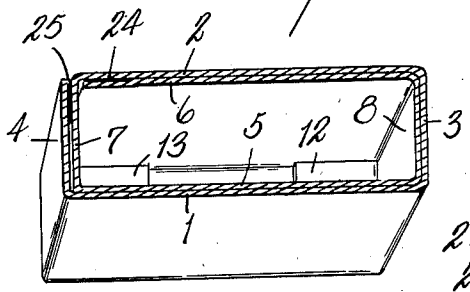


Fig. 4.

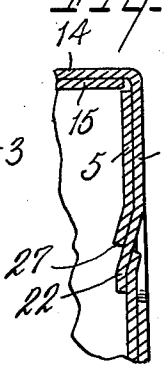


Fig. 5.

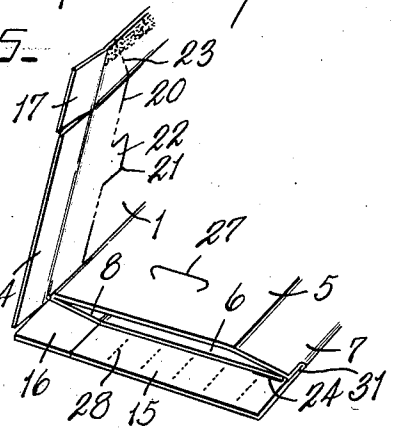


Fig. 6.

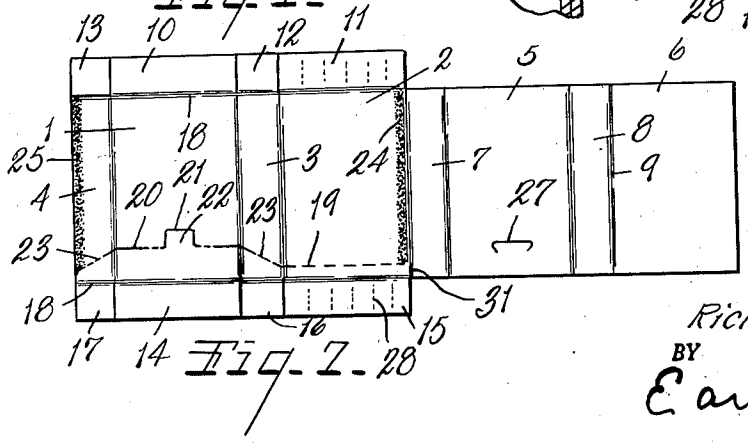


Fig. 7.

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UNITED STATES PATENT OFFICE

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BOX OR CONTAINER

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Application July 15, 1942, Serial No. 451,054

4 Claims. (Cl. 229—44)

This invention relates to improvements in a box or container.

The main objects of this invention are:

First, to provide a box or carton well adapted for use as a tobacco box or package and for other commodities where tin has been commonly used.

Second, to provide a box or container formed entirely of fibrous paper stock such as carton or container board which may be readily opened and at the same time may be provided with the revenue stamps such as are commonly used on tobacco packages, the revenue stamps being destroyed when the container is opened.

Third, to provide a structure having these advantages which is strong and rigid.

Fourth, to provide a box or container of the class described which may be formed of a single integral blank.

Objects pertaining to details and economies of the invention will definitely appear from the description to follow. The invention is defined in the claims.

A box or container embodying the features of the invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a front perspective view of a box or container embodying the features of my invention completely sealed or closed, no revenue stamps or outside ornamentation or printing being shown.

Fig. 2 is a fragmentary perspective view with the box opened.

Fig. 3 is a fragmentary perspective view with the box re-closed.

Fig. 4 is a perspective view in section on line 4—4 of Fig. 1.

Fig. 5 is a fragmentary vertical section on line 5—5 of Fig. 3.

Fig. 6 is a fragmentary perspective view illustrating certain of the steps of forming the carton or container.

Fig. 7 is a plan view of the blank from which the container is formed.

In the accompanying drawing the invention is illustrated as embodied in a box or container adapted as a tobacco box or package. It will be understood that it is capable of embodiment in boxes or containers for various uses.

The embodiment of my invention illustrated in the drawing comprises an outer front wall 1, outer rear wall 2 and outer end walls 3 and 4. It also comprises the inner front wall 5, inner rear wall 6, and inner end walls 7 and 8. These several walls are alined and hingedly connected in the integral blank by means of the hinging zones or scores 9. The outer front, rear and end walls 1, 2, 3 and 4 are provided with bottom closure flaps or members 10, 11, 12 and 13, respectively. They are also provided with top closure flaps or members 14, 15, 16 and 17, respectively. These closure members are all hingedly connected to their respective wall members by hinging lines or zones 18, preferably formed by scoring.

The outer rear wall has a flexing zone 19 extending transversely across the same in parallel relation to the hinging connection for its cover flap 15. The front outer wall member has a fracturing zone or line of severance 20 extending across the same in substantially spaced relation to its upper edge, and it has a U-shaped slit 21 extending downwardly from this fracturing line 20 to provide a tongue 22. The outer end walls have diagonally disposed fracturing lines or lines of severance 23 extending from the ends of the fracturing line 20 of the front wall 1 to the end of the flexing line 19 of the outer rear wall.

In setting up or sealing the box the inner wall members are folded along the hinging line between the inner end wall 8 and the inner front wall 5. Thus folded it is again folded upon the outer walls 2 and 3 and the outer side of the inner rear wall 6 is adhesively secured to the inner side of the outer rear wall 2 along the sealing zone or line 24 as shown in Figs. 4 and 7. The outer front and end walls 1 and 4 are then folded upon the previously folded walls and adhesively secured along the line 25, see Figs. 4 and 7. Thus secured the walls may be adjusted to erected position and their flaps secured in overlapping position after the contents, indicated at 26, have been introduced into the box or container.

As stated, the structure illustrated is adapted for use as a tobacco container, and when so used the revenue stamps would be placed over the fracturing zones or lines as desired.

With the box or container closed as shown in Fig. 1 it may be easily opened by fracturing along the line 23 which provided a cover hinged upon the flexing zones 19, the cover having a depending tongue 22. The cover closes over the upper ends of the inner walls and to provide an effective retaining means the inner front wall 5 has a slit 27 formed therein and adaptedt o receive the tongue 22 as shown in Figs. 3 and 5.

The lines 28 on the closure flaps 11 and 15 indicate perforations which are provided to facilitate gluing, inasmuch as the stock employed is preferably faced or hard-finished on both sides.

While made entirely of fibrous container stock my improved box or container is well adapted for

use as a substitute for metal containers. It is strong and rigid so that it may be carried in a pocket if desired, and is attractive in appearance.

To facilitate opening the cover, designated generally by the numeral 30, a slit 31 is formed extending from the hinging line of the closure flap 15 to the flexing line 19. This is not an essential as the stock readily tears at this point, but it is desirable for the sake of neatness in appearance after the container is opened.

I have illustrated my invention in a desirable embodiment thereof, adapted for use as a tobacco package, although it will be understood that I contemplate many other uses. It is believed that the disclosure made will enable those skilled in the art to embody or adapt the invention as may be desired for particular purposes.

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

1. A box or container comprising outer front, rear and end walls, and inner front, rear and end walls, said several walls being alined and hingedly connected in an integral blank wound continuously in one direction about said container, the outer front, rear and end walls having top and bottom closure members hingedly connected thereto, the vertical edge of the inner rear wall being adhesively secured to the inner side of the outer rear wall, the outer end wall at the end of the blank being adhesively secured to the outer side of the underlying inner end wall, the end closure members being adhesively secured together when the carton is initially closed, the rear outer wall having a flexing zone adjacent and parallel to the upper edge thereof, the outer front wall having a fracturing zone extending thereacross substantially below its upper edge, there being a slit to provide a central tongue extending downwardly from its said fracturing zone, the outer end walls having diagonal fracturing zones extending from the ends of said outer front wall fracturing zone to the flexing zone of said outer rear wall, the inner front wall having a slit adapted to receive said tongue when the outer front and end walls are fractured along said fracturing zones thereof to provide a cover hinged along said flexing zone of said rear outer wall and adapted to close over the upper ends of the inner walls.

2. A box or container comprising outer front, rear and end walls, and inner front, rear and end walls, said several walls being alined and hingedly connected in an integral blank wound continuously in one direction about said container, the outer front, rear and end walls having top and bottom closure members hingedly connected thereto, the vertical edge of the inner rear wall being adhesively secured to the inner side of the outer rear wall, the outer end wall at the end of the blank being adhesively secured to the outer side of the underlying inner end wall, the end closure members being adhesively secured together when the carton is initially closed, the rear outer wall having a flexing zone adjacent and parallel to the upper edge thereof, the outer front wall having a fracturing zone extending thereacross substantially below its upper edge, the outer end walls having diagonal fracturing zones extending from the ends of said outer front wall fracturing zone to the flexing zone of said outer rear wall, whereby when said outer front and end walls are fractured along their said fracturing zones a cover hinged along said flexing zone of said outer rear wall and adapted to close over the upper ends of the inner walls is provided.

3. A box or container comprising outer front, rear and end walls, and inner front, rear and end walls, the outer front, rear and end walls having top and bottom closure members, said several walls and closure members being formed of an integral blank wound continuously in one direction about said container, the inner rear wall being adhesively secured to the inner side of the outer rear wall, the outer end wall at one end of the blank being adhesively secured to the outer side of the underlying inner end wall, the rear outer wall having a transverse flexing zone, the outer front wall having a transverse line of severance, the outer end walls having lines of severance extending from the ends of said outer front wall line of severance to the flexing zone of said outer rear wall, the line of severance of said outer front wall providing a tongue, the inner front wall having a slit adapted to receive said tongue when the outer front and end walls are severed along said severing lines thereof to provide a cover hinged along said flexing zone of said outer rear wall and adapted to close over the upper ends of the inner walls.

4. A box or container comprising outer front, rear and end walls, and inner front, rear and end walls, the outer front, rear and end walls having top and bottom closure members, said several walls and closure members being formed of an integral blank wound continuously in one direction about said container, the inner rear wall being adhesively secured to the inner side of the outer rear wall, the outer end wall at one end of the blank being adhesively secured to the outer side of the underlying inner end walls, the rear outer wall having a transverse flexing zone, the outer front wall having a transverse line of severance, the outer end walls having lines of severance extending from the line of severance of the outer front wall to the flexing zone of said outer rear wall, whereby when said outer walls are severed along their lines of severance a cover hinged along said flexing zone of said outer rear wall and adapted to close over the upper ends of the inner walls, is provided.

RICHARD E. SMITH.