

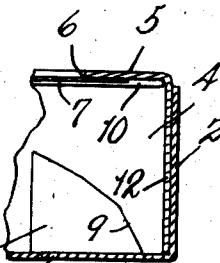
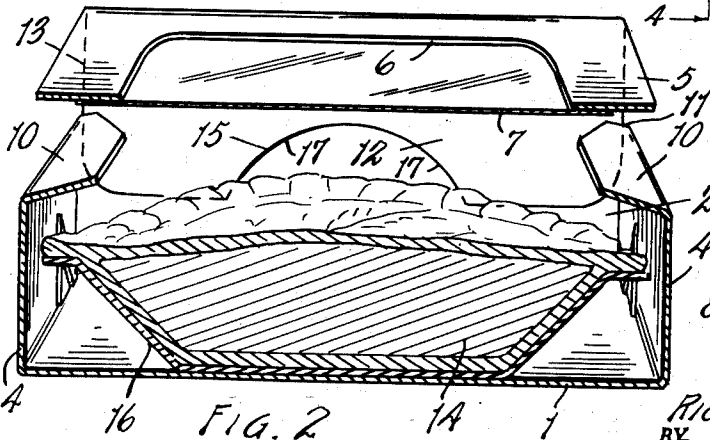
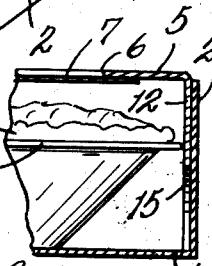
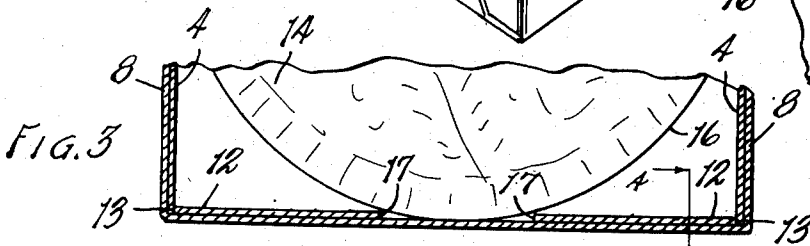
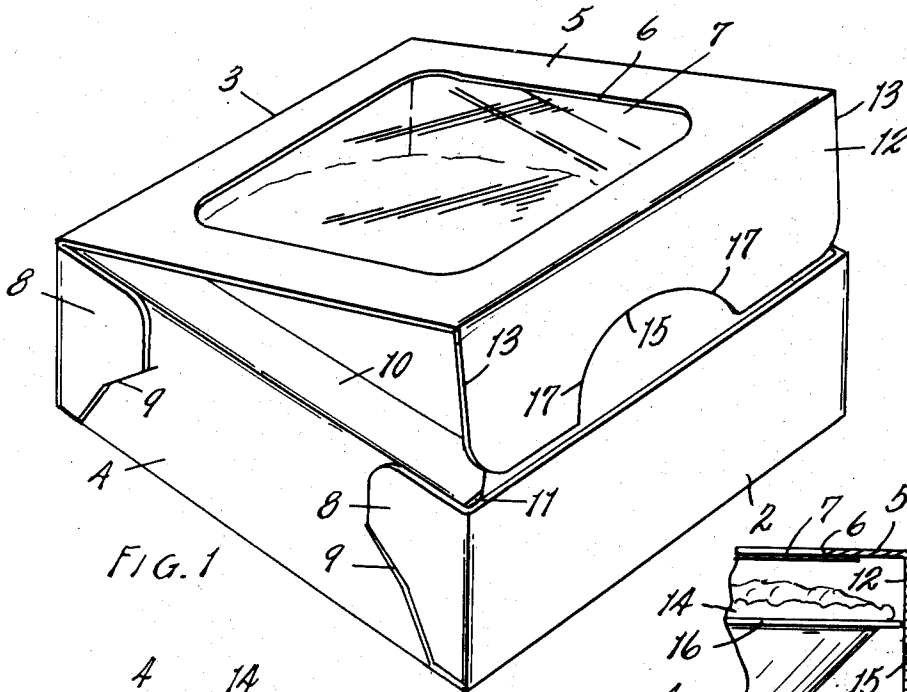
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CARTON FOR BAKED GOODS AND OTHER EASILY BROKEN PRODUCTS

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CARTON FOR BAKED GOODS AND OTHER
EASILY BROKEN PRODUCTSRichard C. Stenger, Kalamazoo, Mich., assignor
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This invention relates to improvements in cartons for baked goods and other easily broken products.

The main objects of this invention are:

First, to provide a covered carton which is suitable for the packaging of pies and like products which are easily broken and one in which the packaged article is effectively supported and protected and not likely to be injured in closing the carton.

Second, to provide a carton of this character which may be economically produced and which facilitates the rapid packaging of the product.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a front perspective view of a carton embodying my invention with the cover partially open.

Fig. 2 is a fragmentary perspective view partially in transverse section with a pie arranged within the carton and the cover partially closed.

Fig. 3 is a fragmentary horizontal section in a plane above the pie with the cover partially closed.

Fig. 4 is a fragmentary vertical section on a line corresponding to line 4—4 of Fig. 3.

Fig. 5 is a fragmentary vertical central section with the cover completely closed.

In the embodiment of my invention illustrated in the accompanying drawing, 1 represents the bottom, 2 the front wall, 3 the rear wall, 4—4 the side walls. These walls are formed of an integral blank, as is also the cover 5 which is hingedly connected to the upper edge of the rear wall. The cover is provided with a window opening 6 covered by a transparent panel 7 which may be of glassine, cellophane, Pliofilm or like transparent material.

The front and rear walls are provided with integral corner flaps 8 at their ends which interlock with slits 9 in the side walls for supporting the box in erected position. The details of this interlock form no part of my present invention. The side walls are provided with cover support flaps 10 on their upper edges which also serve as joint closure members. The front ends 11 of these flaps 10 are spaced from the front wall to receive the tucking flap 12 on the swing edge of the cover. This tucking flap 12 is of a width cor-

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responding to the height of the front wall and of a length corresponding to the length of the front wall so that it closes on the inside of the front wall and in the space between the edges 11 and flaps 10 of the front wall, with the ends of the tucking flap in supporting engagement with the end walls.

The engagement of the edge of the tucking flap with the bottom serves to support the cover. The engagement of the end edges of the cover flap with the side walls supports the walls against sidewise racking or collapsing movement. The engagement of the front edges of the side wall flaps with the tucking flap serve to support or brace the carton against racking or collapsing from the front to the rear. This arrangement of parts permits the use of quite light material and at the same time the carton is quite strong.

The carton is especially designed for packaging pies and like delicate objects such as is illustrated at 14 in Figs. 2 and 3, but especially desirable for packaging of individual pies which may be transported considerable distances and the cartons containing the same are commonly rapidly handled for shipment or delivery, and arranging for display, and by the customer. The crust of such pies is desirably quite delicate and easily broken which detracts from the attractiveness and salability.

The carton is of a dimension approximating the diameter of the pie or other packaged article in order to prevent the shifting of the pie within the carton and likelihood of resulting injury. The cover flap 12 is provided with a centrally positioned notch-like recess 15 in its edge, the recess being desirably upwardly curved.

Pies and like comestibles are cooked or placed in paper trays 16 as shown in Fig. 2. As stated, the cover flap is guided vertically by the front wall and the front edges of the flaps 10. To prevent its engagement with the top of the pie as it is closed and movement of the tray, which would tilt or displace a pie and might break or fracture some part thereof, the recess 15 is positioned to provide clearance during the first part of the closing movement of the cover flap, and its edges 17 are brought into camming engagement with the dish or tray 16 with the result that the pie is pushed rearwardly in the carton allowing the cover flap to move to completely closed position as shown in Fig. 5. During this closing movement the front edges of the side flaps 10 guide the cover flap so that it cannot swing inwardly into engagement with the top of the pie and, as stated, the edges of the

recess 15 cammingly engage the pie or container and push it rearwardly allowing complete closing of the cover with the bottom edge in supported engagement with the bottom of the container and its end walls in supporting engagement with the end walls of the carton which provides quite a rigid structure even when formed of light stock that can be readily manipulated in setting up the container and closing.

I have illustrated and described my invention in an embodiment particularly designed by me for pies but it is useful in packaging other delicate or easily broken products, for example cakes. I have not attempted to illustrate minor changes which might be desired for particular adaptations as it is believed that this disclosure will enable those skilled in the art to embody or adapt this invention as may be desired.

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

1. In combination, a carton and an article enclosed by said carton, said article having a generally circular peripheral edge disposed in a plane generally horizontal, said carton comprising a bottom, front, rear and side walls, and a cover hingedly connected to the rear wall and provided with a tucking flap at its front edge for closing on the inner side of the front wall, said flap having a downwardly opening recess in its lower edge disposed below said circular edge of the enclosed article when the cover is in closed position, said recess being vertically spaced from the cover and having a central portion and opposite side edges inclined from said central portion downwardly away from each other, said central portion providing a clearance for the circular edge of the article during the initial closing of the cover, said inclined side edges providing camming elements for engaging spaced portions of said peripheral edge of the article to shift the article rearwardly away from the front wall to allow the flap portion above the recess to engage between the peripheral edge of the article and the front wall of the carton upon final closing of the cover.

2. In combination a carton and an article enclosed by said carton, said article having a generally circular peripheral edge disposed generally in a horizontal plane, said carton comprising a bottom, front, rear and side walls, a cover provided with a transparent window hingedly connected to the rear wall and provided with a tucking flap at its front end of a width corresponding to the width of the front wall and of a length corresponding to the length of the front wall and adapted to close on the inner side thereof between the side walls, the lower edge of the tucking flap being supportingly engaged by said bottom when the cover is closed, the side walls having intumed cover supporting flaps on their upper edges, the front ends of which are spaced from the front wall to receive the tucking flap between said front ends and front wall, the tucking flap having a central upwardly curved recess in its lower edge and in vertically spaced relation from the cover, the peripheral edge of said enclosed article being disposed above said recess when the cover is closed, the opposite side edges of said recess constituting camming edges for cammingly engaging spaced portions of the peripheral edge of said article within the carton, in the event that it is positioned within the

carton too close to the front wall to permit the passage of the cover flap between the front wall and the article, to shift the article to permit the complete closing of the cover flap with its lower edge in supporting engagement with the bottom.

3. In combination a carton and an article enclosed in said carton, said article having a generally circular peripheral edge disposed generally in a horizontal plane, said carton comprising a bottom, front, rear and side walls, a cover provided with a transparent window hingedly connected to the rear wall and provided with a tucking flap at its front end of a width corresponding substantially to the width of the front wall and adapted to close on the inner side thereof between the side walls, the lower edge of the tucking flap being disposed closely adjacent said bottom when the cover is closed, the side walls having intumed cover supporting flaps on their upper edges, the front ends of which are spaced from the front wall to receive the tucking flap between said front ends and front wall, the tucking flap having a curved recess in its free edge and in vertically spaced relation from the cover, said recess being disposed below the peripheral edge of the enclosed article when the cover is closed and providing clearance for the peripheral edge of the article during the initial closing of the cover, and the side edges of the recess constituting camming edges having camming engagement with said peripheral edge to shift the article away from the front wall allowing complete closing of the tucking flap with its lower edge closely adjacent the bottom and with the portion of the tucking flap above the recess disposed between the front wall and the peripheral edge of the article.

4. In combination a carton and an article enclosed by said carton, said article having a generally circular peripheral edge disposed generally in a horizontal plane, said carton comprising a bottom, front, rear and side walls, a cover provided with a transparent window hingedly connected to the rear wall and provided with a tucking flap at its front end of a width corresponding to the width of the front wall and adapted to close on the inner side of the front wall between the side walls with its edge in supported engagement with the bottom, the swinging edge of the tucking flap having inclined cam elements disposed below said circular peripheral edge when the cover is in closed position and acting to engage said circular peripheral edge and shift the article away from the front wall as the tucking flap is moved to closed position, the tucking flap when in supporting engagement with the bottom being disposed between the front wall of the carton and the peripheral edge of the article.

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References Cited in the file of this patent UNITED STATES PATENTS

Number	Name	Date
1,297,026	Smith	Mar. 11, 1919
1,465,411	Bergstein	Aug. 21, 1923
1,637,052	Barber	Oct. 9, 1928
2,027,488	Ness	Jan. 14, 1936
2,274,253	Howell	Feb. 24, 1942
2,409,736	Caimi	Oct. 22, 1946
2,426,865	Fink	Sept. 2, 1947