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C. F. McALEER

1,953,884

BOX OR CONTAINER FOR ICE CREAM AND MOLDED MATERIALS

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Fig. 6.

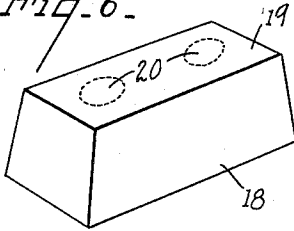


Fig. 1.

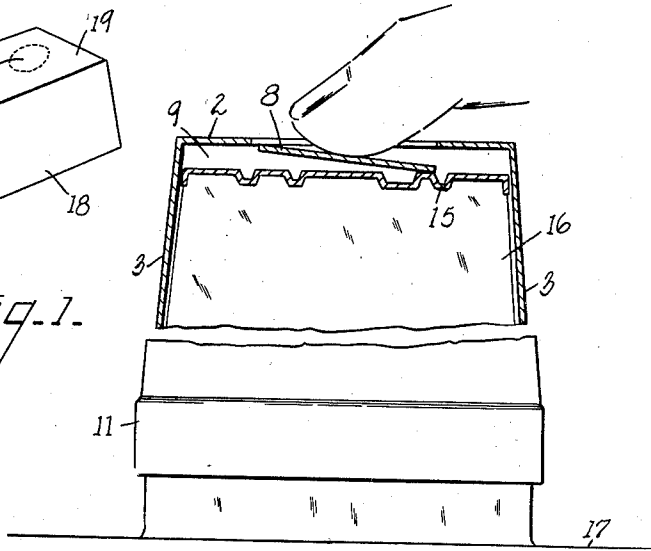


Fig. 2.

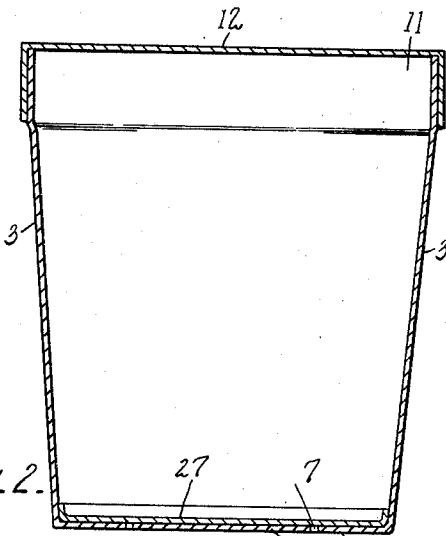


Fig. 4.

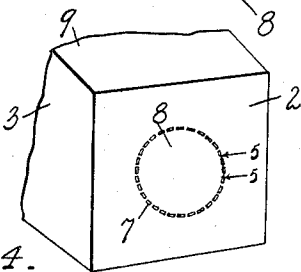
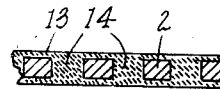
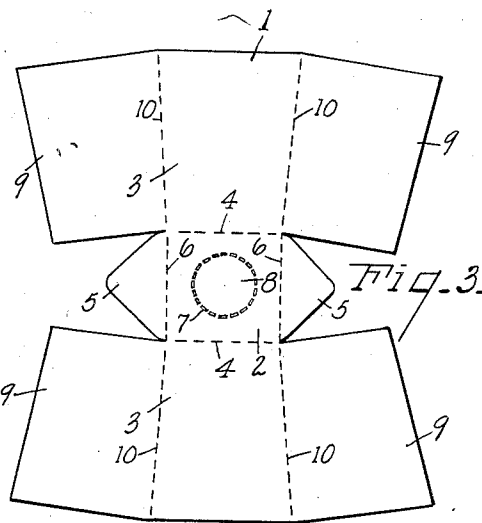


Fig. 5.



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UNITED STATES PATENT OFFICE

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BOX OR CONTAINER FOR ICE CREAM AND
MOLDED MATERIALSCharles F. McAleer, Kalamazoo, Mich., assignor
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9 Claims. (Cl. 206—56)

The main objects of this invention are:

First, to provide a box or container which is well adapted for ice cream and other materials which it is desired to package or mold, and from
5 which the material can be easily ejected.

Second, to provide a box or container having these advantages which is liquid tight and at the same time has break-out portions in the bottom thereof facilitating the ejection of the contents.

10 Third, to provide a box or container having these advantages which is adapted for the uses of an ordinary container of its character and possesses the advantages indicated above, and at the same time one which is very economical to
15 produce and easy to manipulate.

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

20 A structure which embodies the features of my invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a fragmentary view in side elevation of a package or box embodying the features of
25 my invention, a portion being broken away and shown in vertical section illustrating the manner of manipulating to eject the contents from the container.

30 Fig. 2 is a vertical section of my improved container provided with a plain or unembossed false bottom.

Fig. 3 is a plan view of the blank.

Fig. 4 is a fragmentary inverted perspective
35 view.

Fig. 5 is an enlarged fragmentary section on line 5—5 of Fig. 4.

Fig. 6 is an inverted perspective view of a modified form or embodiment of the invention.

40 In the structure illustrated in the drawing the box or container is formed of a blank 1 of cardboard, fiberboard or the like, suitable for making containers, and has the bottom 2, downwardly tapered side walls 3 connected thereto along the
45 score lines 4, and side wall flaps 5 connected to the bottom along the score line 6.

The bottom is provided with an annular or endless series of perforations 7 providing a break-out portion 8. The side walls 3 and 4 are provided with side wall extensions 9 foldable along the score lines 10 into overlapping relation, the
50 flaps 5 when the blank is set up being interposed between the overlapping extensions 9 and the lapping parts secured together by suitable adhesive. The box illustrated has an untapered

neck portion 11, or a portion having parallel side walls, to receive the flanges of the cover 12.

After the box is set up it is preferably completely coated with paraffin or other suitable wax, although the paraffin coating may be confined to
60 the bottom portion. The coating is indicated at 13 and fills the openings 7 as shown at 14, Fig. 5, thus providing a complete seal for the bottom of the box but permitting the portion 8 to be
65 readily broken out as indicated in Fig. 1 by pressure thereon.

A false bottom 15, preferably embossed as shown in Fig. 1, is arranged within the container and may be arranged therein before the paraffin or wax is applied, but the structure is very satisfactory without that. This false bottom serves as a diaphragm or thrust member for the ejecting of the contents of the package, as ice cream indicated at 16, so that the package or container
70 may be inverted over a dish or receptacle as indicated at 17 and the contents ejected by pressure on the break-out portion 8. This first breaks along the predetermined lines and then allows the pressure to be exerted through the resulting opening upon the false bottom and the contents
75 thereby forced from the receptacle which, being preferably tapered as illustrated, causes the conduits to be freed by slight movement of the container relative thereto.

As shown in Fig. 2 the false bottom 27 is not
85 embossed. By the use of the embossed bottom the ice cream, cottage cheese or other material packaged is provided with an ornamental face when the false bottom is removed.

In the modification shown in Fig. 6 an oblong
90 receptacle 18 is shown, the bottom 19 having a pair of break-out portions 20 so that the receptacle may be grasped at its ends and pressure applied to both ends of the false bottom.

My improved package or container is especially desirable for use in the marketing of ice cream. The ice cream mix may be molded directly in the container and is easily ejected from the container
95 as a unit.

The container is also well adapted for use in
100 the molding of baked goods, gelatins, and the like.

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

1. A box formed of fibrous material such as fiber or boxboard and having downwardly converging walls, and a bottom, a portion of the bottom being partially severed from the body thereof by an endless series of perforations pro-
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- viding a break-out portion, and a false bottom disposed within said box and normally resting upon the bottom thereof to receive the contents whereby when the box is inverted pressure upon the break-out portion will fracture the same from the bottom and permit the exertion of pressure on the false bottom to force the contents from the box, the false bottom being embossed to provide an ornamental configuration for the face of the ejected contents.
2. A box formed of fibrous material such as fiber or boxboard and having downwardly converging walls and a bottom, a portion of the bottom being partially severed from the body thereof by an endless series of perforations providing a break-out portion, and a false bottom disposed within said box and normally resting upon the bottom thereof to receive the contents whereby when the box is inverted pressure upon the break-out portion will fracture the same from the bottom and permit the exertion of pressure on the false bottom to force the contents from the box.
3. A box formed of fibrous material such as fiber or boxboard and having downwardly converging walls and a bottom, a portion of the bottom being partially severed from the body thereof by an endless series of perforations providing a break-out portion, said box being coated and said perforations filled with a frangible material providing a seal therefor, and a false bottom disposed within said box and normally resting upon the bottom thereof to receive the contents whereby when the box is inverted pressure upon the break-out portion will fracture the same from the bottom and permit the exertion of pressure on the false bottom to force the contents from the box.
4. A box formed of fibrous material such as fiber or boxboard and including a bottom having a series of perforations facilitating the fracturing of a portion of the bottom along a predetermined line, and a false bottom, the box being coated and the perforations filled with paraffin providing a seal and a retaining means for such fracturable portion, the false bottom being accessible through the opening left by the removal of said break-out portion to permit exertion of ejecting pressure thereon.
5. A box formed of fibrous material such as fiber or boxboard and including a bottom having a series of perforations facilitating the fracturing of a portion of the bottom along a predetermined line, and a false bottom, the false bottom being accessible through the opening left by the removal of said break-out portion to permit exertion of ejecting pressure thereon.
6. A box of fibrous material for contents moldable within the box, said box being downwardly tapered and having a false bottom removably supported by the bottom of the box, the bottom of the box having a portion partially severed therefrom facilitating breakage along predetermined lines to permit the exertion of pressure upon the false bottom for forcing the contents from the box, and being coated with a material filling the openings resulting from such partial severing.
7. A box of fibrous material for contents moldable within the box, said box being downwardly tapered and having a false bottom removably supported by the bottom of the box, the bottom of the box having a portion partially severed therefrom facilitating breakage along predetermined lines to permit the exertion of pressure upon the false bottom for forcing the contents from the box.
8. A package for ice cream or the like, comprising a box having flared side walls and a bottom provided with a portion adapted to be easily broken out in the act of forcing the same inwardly to eject the contents of the box, the bottom being perforated to provide the break-out portion and waxed to seal the perforations.
9. A box having a bottom provided with a finger opening, a false bottom disposed on said bottom by means of which the contents of the box may be forced out, the breakable means sealing said false bottom in place.
- CHARLES F. McALEER.

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