UNITED STATES PATENT OFFICE

2,459,728

BULK ICE-CREAM CONTAINER

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2 Claims. (Cl. 229—16)

1. The present invention, which relates to the art of paper manufactures, has for its particular objects to provide a box that can be made from cardboard, or stiff paper stock, parts of which can be cut or stamped out and readily assembled by the user; to provide a box that can be shipped flat if desired; to provide a two piece box and a one piece cover, the two pieces of the box being self sustaining when assembled; to provide a box whose bottom can be used as a piston to eject the contents of the box when desired.

Other objects will in part be obvious and in part be pointed out hereinafter.

To the attainment of the aforesaid objects and ends invention further resides in those novel details of construction, combinations, and arrangements of parts, all of which will be fully described and then be particularly pointed out in the appended claims, reference being had to the accompanying drawing in which:

Fig. 1 is a developed plan view of the strip which forms the sides of the box.

Fig. 2 is a plan view of the bottom of the box, the flaps being flattened out.

Fig. 3 is a bottom plan view of the box.

Fig. 4 is a side elevation of the box, the lid or cover being indicated in dotted lines.

Fig. 5 is an enlarged cross sectional view on the line 5—5 of Fig. 3.

Fig. 6 is a plan view of the top or cover of the box with the sides flattened out.

Fig. 7 is an inside view of the cover in its completed form.

From an examination of the accompanying drawing it will be seen that the box proper is composed of two parts, the side walls and bottom retainer (Fig. 1) and the bottom (Fig. 2). The side walls and bottom retainer are composed of an uncut rectangular strip divided into side faces 1, 2, 3 and 4 and a connecting flap 5 by means of parallel, spaced-apart transverse bend-lines 7. The strip is adapted to be folded back upon itself along a longitudinal fold line or crease 6. The strip is further provided with diagonal fold lines 8 where the corners of the box occur.

After folding the strip back upon itself along the line 6 and securing the flap 5 to the face 1 by gluing or any other suitable way, the bottom 10, with its flaps 11, can be over on the lines 12 at right angles, is inserted with the flaps 11 located between the folded-back portions 13, 13a, etc. and the parts 11, 11a, as shown in Fig. 5. Thereafter the corners 9 are pressed over inwardly to “lock” the portions 13, 13a, etc. against the flaps 11.

The cover or lid 16 is formed from a square blank which is slit at 20 and is bendable over at right angles along the side lines 18 to provide the sides 17 of the cover, the sides each having an extension 19 which when bent over at right angles and secured to the adjacent side (by gluing or any other suitable way) form the corner of the lid or cover (Fig. 7).

When the box is set down on a suitable support, the folded in corners provide openings below the bottom 10 of the box so that air may circulate freely beneath the bottom, an advantage which will be obvious when the box and its contents are placed in a refrigerator for storage.

While I have particularly devised my box for containing bulk ice-cream, it is to be understood that its use is not to be limited thereto and while I prefer to construct the box of cardboard or stiff paper other materials may be employed suitable to the uses to which the box is to be put.

From the foregoing description taken in connection with the accompanying drawing it is thought the construction, manner of assembly, uses and advantages of the invention will be clear to those skilled in the art.

What I claim is:

1. A box side-forming blank comprising an uncut rectangular strip divided transversely by parallel spaced-apart bend lines into four faces and a connecting flap and divided longitudinally by a fold line which extends from end to end of the strip parallel to an adjacent edge of the same, said strip having diagonal bend lines adjacent the meeting points of said transverse and longitudinal lines and forming about said points four right angle triangles one side of each of which lies in the adjacent transverse bend line and another side of each of which lies in said longitudinal fold line while the hypotenuse of each triangle connects the adjacent transverse bend line with the longitudinal fold line.

2. A box composed of a bottom having downturned flaps, a side wall, a minor portion of which side wall extends below the said down-turned flaps, while the major portion of the side wall extends above the said bottom, said side wall comprising an uncut rectangular strip divided transversely by parallel spaced-apart bend lines into four faces and a connecting flap and being divided longitudinally by a fold line which extends from end to end of the strip parallel to an adjacent edge of the same, said strip having angular bend lines adjacent the meeting points of said transverse and longitudinal lines and forming about said points four right angle triangles one
side of each of which lies in the adjacent transverse bend line and another side of each of which lies in said longitudinal fold line while the hypotenuse of each triangle connects the adjacent transverse bend line with the longitudinal fold line, said bottom flaps having diagonal side edges which conform to the hypotenuses of said triangles, by virtue of all of which when the corners of the side wall are folded in to their operative position the diagonal sides of the bottom flaps will remain out of the range of the infolded corners of said side wall, the full area of the top surface of the box bottom being equal to and corresponding to that of the area bound by said side wall.

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