Nov. 18, 1924. 1,516,090

B. L. GARY ET AL

CARTON

Original Filed March 28. 1923

FIG. 1

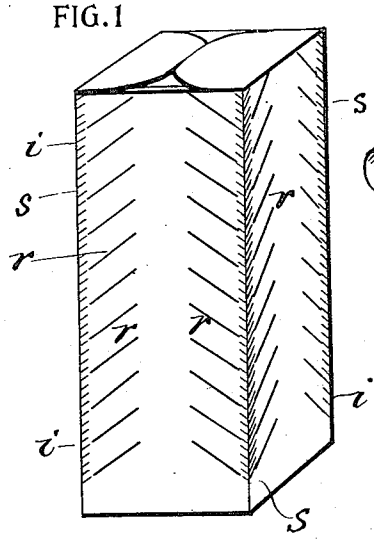


FIG. 2

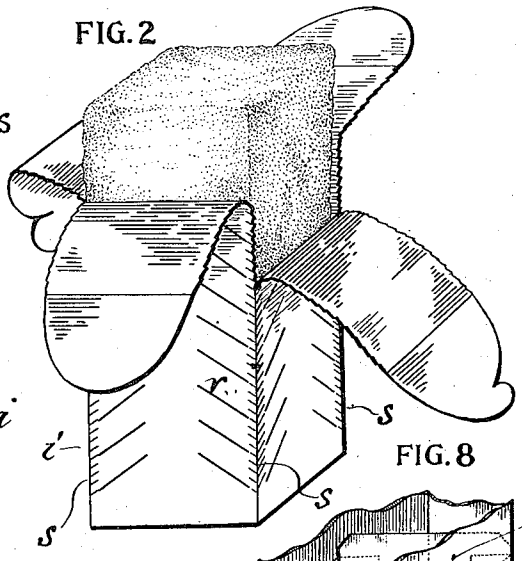


FIG. 8

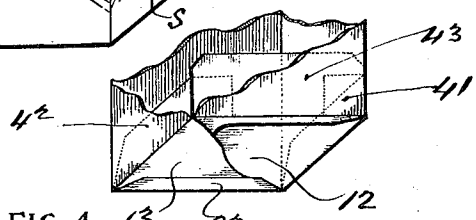


FIG. 3

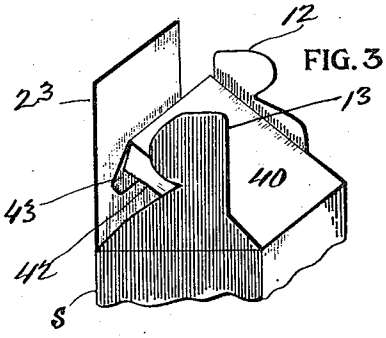


FIG. 4

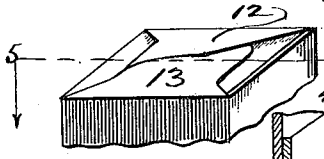


FIG. 5

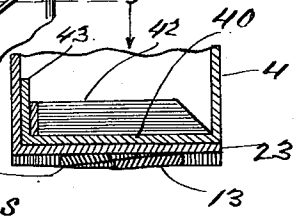


FIG. 6

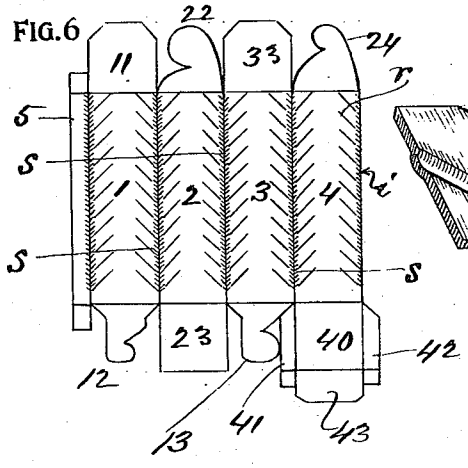
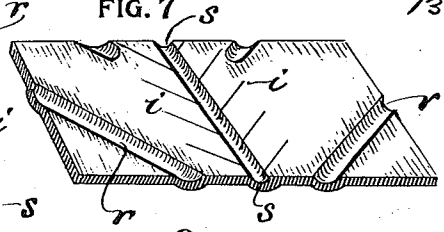


FIG. 7



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UNITED STATES PATENT OFFICE.

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CARTON.

Application filed March 28, 1923, Serial No. 628,174. Renewed October 3, 1924.

To all whom it may concern:

Be it known that we, BENJAMIN L. GARY, a citizen of the United States, and a resident of the city of Newark, county of Essex, and State of New Jersey, and JOSEPH F. MEEHAN, a citizen of the United States, and a resident of the borough of Bronx, county of Bronx, city and State of New York, have invented certain new and useful Improvements in Cartons, of which the following is a specification sufficient to enable others skilled in the art to which the invention appertains to utilize the same.

While our improvements are applicable to foldable and strippable boxes or containers generally, they are designed especially for use for temporarily retaining goods of a plastic or semi-plastic nature intended for immediate consumption or use, or substantially so, as for instance ice cream, marshmallow whip, or similar edible substances retailed in relatively small quantities,—the invention consisting in the specific construction and arrangement of parts herein described and claimed, and distinctive features being the formation of the foldable receptacle in such manner as to provide the same, when set up for use, with a non-leakable bottom; the method of reinforcing and prescribing the lines of severance or clearage, etc.—all as hereinafter fully set forth.

In the accompanying drawings we exemplify a practical embodiment of the essential features of our invention as an article of manufacture, although we do not restrict ourselves to the identical form and construction of parts shown, since modifications in minor details may be resorted to without departing from the spirit and intent of this invention in this respect.

With this understanding,

Fig. 1, represents a perspective view of our improved carton, closed;

Fig. 2, represents a perspective view of the container as stripped in part to afford convenient access to the contents thereof;

Fig. 3, is a perspective view of the lower extremity of the container, inverted, illustrating the method of folding in and forming the non-leakable bottom;

Fig. 4, is a perspective view of the inverted lower extremity of the container, closed;

Fig. 5, is a section taken upon plane of line 5—5, Fig. 4;

Fig. 6, is a plan view, on a smaller scale, showing the shape of the carton blank before setting up for use;

Fig. 7, is a detail view, upon an enlarged scale, illustrating the formation and arrangement of the diagonally convergent reinforcement corrugations and the scored line of severance with lateral incisions;

Fig. 8, is a perspective view of the lower end of our container, broken away in part to show internal arrangement of parts.

The box or carton C, consists primarily of a blank substantially such as indicated in Fig. 6, which is designed for a container which is square in transverse section as illustrated in the other figures of the drawing, although we do not necessarily limit ourselves to this rectangular configuration in cross section in so far as the scored lines of severance are concerned. This rectangular construction is, however, preferable for general use, especially where a non-leakable bottom is a desideratum, as when the receptacle is designed as a vendible package of ice cream or other meltable substance.

Thus the blank indicated in Fig. 6, of the drawings, is formed with the four side panels 1, 2, 3, and 4, the lines *s*, *s*, *s*, *s*, of corner folds being perforated or scored to facilitate stripping as indicated in Fig. 2, in order to expose the contents of the container as required for use. The panels 1 and 3, are formed with the upper flaps 11 and 33, and the panels 2 and 4, with the interlocking tongues 22 and 24, to constitute the upper end closure means in a manner well known in the art. 5 is the longitudinal side flange by means of which the panels 1 and 4, are attached, also in a manner well known in the art.

The lower end of the panel 4, is formed with an inner bottom flap 40, having marginal flanges 41, 42, and 43, which in the up folding of the blank, are inturned to contact with and seal the inner lower surfaces or edges of the panels 1, 2, and 3, the end flap 23, on the side panel 2, overlapping said sealing flap 40, and being in turn secured in position by the interlocking tongues 12 and 13, of the side panels 1 and 3. It will be seen in this connection that the main novelty in this construction of non-leakable bottom consists in the provision of the inturnable flanges 41, 42, and 43, on the inner or false bottom 40, of the side panel 4, by means of which the lower edges of the

side panels 1, 2, and 3, are closed and sealed, the internal pressure of the contents of the container tending to perfect and maintain this non-leakage seal between the surfaces in contactual engagement.

The corner lines of severance *s*, *s*, *s*, *s*, are embossed, scored or scribed for substantially the full length of the panels 1, 2, 3, and 4, and are flanked by convergent diagonal incisions *i*, *i*, which facilitate the stripping of the edges of the side panels 1, 2, 3, and 4, one from another.

It is to be noted that these lines of incision *i*, *i*, are convergent downward, so as to yield readily in that direction only, without otherwise weakening the corners of the holder.

r, *r*, are reinforcing grooves or embossments, also diagonally and convergently arranged as related to the prescribed lines of severance *s*, *s*; and are designed to stiffen and protect the corners of the receptacle against stress in any direction other than along said prescribed lines of severance.

What we claim as our invention and desire to secure by Letters Patent is,

1. A carton of the character designated, angular in cross section, and having the angles scored to form prescribed lines of severance, and aslo formed with diagonal reinforcement embossments convergent toward said prescribed lines of severance, substantially in the manner and for the purpose set forth.

2. A carton of the character designated, rectangular in cross section, and having the angles scored to form prescribed lines of severance, and also formed with diagonal reinforcement embossments convergent toward said prescribed lines of severance, substantially in the manner and for the purpose set forth.

3. A carton of the character designated, rectangular in cross section, having its angles scored to form prescribed lines of severance, also formed with diagonal reinforcement embossments convergent toward said prescribed lines of severance, said carton also having a non-leakable bottom consisting of an inner end sealing flap formed with inturned flanges, an outer end flap, and exterior locking tongues, substantially in the manner and for the purpose set forth.

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JOSEPH F. MEEHAN.

Witnesses:
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GEO. WM. MIATT.