

Feb. 4, 1930.

H. L. METZGER

1,746,006

CARTON

Filed Feb. 27, 1928

Fig. 1.

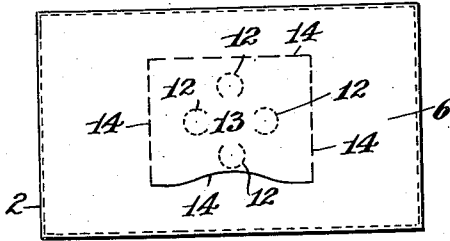


Fig. 3.

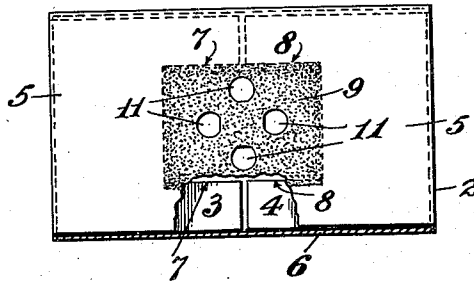


Fig. 2.

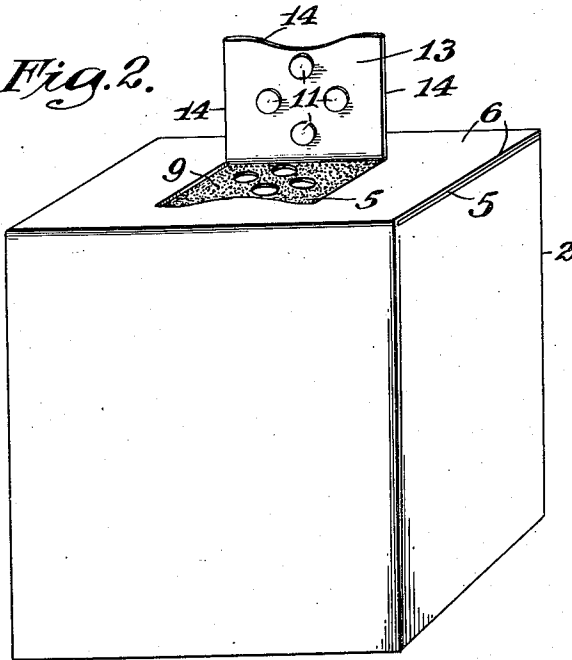


Fig. 4.

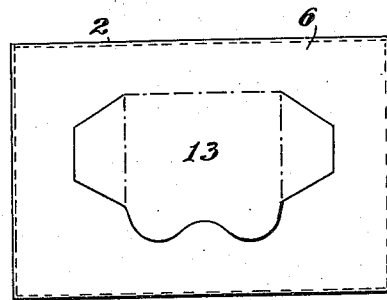
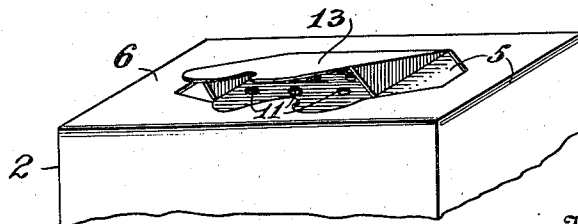


Fig. 5.



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By his Attorney

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UNITED STATES PATENT OFFICE

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CARTON

Application filed February 27, 1928. Serial No. 257,127.

My invention relates to cartons for finely divided material, such as spices, soap and cleaning powders, powdered sugar, and other similar substances. My invention has for its object the construction of a carton which will remain tightly sealed until opened and after it is opened will be in convenient form for use. To this end my invention is applied to the sealed end type of carton, so constructed that the ordinary package filling and sealing operations as conducted in automatic filling machines, or otherwise, are in no way restricted or disturbed. In practice this desirable result is achieved by forming in the end flap or tab, which occupies the uppermost position when the flaps are folded down and sealed, a partially cut out closure flap, which either can be opened out to pivot or swing about one edge, or else may be wholly removed, and when opened or removed, at the same time will open intended portions of the inner flap member so as to provide restricted or shaker openings, such as circular perforations in the inner flap member. My invention also comprises various other features hereinafter described and claimed.

In the accompanying drawings, Fig. 1 is a plan showing the filled and sealed carton embodying my invention; Fig. 2 is a perspective view of the carton showing a flap in the uppermost tab member lifted and carrying with it portions of the inner tab member so as to form restricted openings or perforations therein; Fig. 3 is a plan with the uppermost tab member removed and indicating the extent of the adhesive repellent surface on the inner tab member; Fig. 4 is a plan showing a modification of my invention in which the portion of the upper tab member is left attached along one edge thereof when the carton has been opened; and Fig. 5 is a perspective thereof showing the carton after the top flap has been lifted.

Referring more particularly to the drawings, the carton 2 is provided at its upper end with the inner tab members 3 and 4 and the outer tab members 5 and 6, which are adapted to be folded in closed relation to the end of the carton and sealed permanently in closed position.

This is a common form of construction, and the invention herein is adapted to be applied to sealed end cartons without in any way interfering with the sealing operation or the sealed construction of the carton.

In order to provide an opening through which access can be had to the contents of the carton without disturbing the sealed end fold tab members, the side wall tab members 3 and 4 are provided with cut out or recessed portions 7 and 8, as is shown in Fig. 3 of the drawings. The forward wall tab member 5 is then sealed into permanent engagement with the upper faces of the folded in side wall tab members 3 and 4. The forward wall tab member 5 is provided near its center portion with an adhesive repellent surface or section 9, which may be of any desired shape but is shown in Figs. 2 and 3 of the drawings as forming a rectangle. The adhesive repellent surface 9, however, is interrupted in the untreated areas 11, which are preferably of circular shape and are bounded by a partially cut line 12. The rear wall tab member 6 has near its center a portion 13 which may be any desired shape but is shown as a rectangle, bounded by the cut and scored line 14. If desired, the area may be permitted to be retained in hinged relation to the tab member 6, as is shown. The portion 13 is preferably of slightly greater extent than that part of the surface 9 in which the areas 11 occur, so that if the tab 6 is not applied exactly in alignment with the tab 5, the portion 13 will nevertheless overlie the perforated areas 11, and when the portion 13 is removed the perforated areas 11 will thus be exposed.

After the member 5 has been sealed down upon the members 3 and 4 the adhesive will be applied to the under surface of the rear wall tab member 6. The tab 6 is then folded inward and sealed to the upper surface of the tab member 5. The sealing action, however, will not take place between the outermost tab member 6 and the tab member 5 in the section 9 to which the repellent agent, such as varnish or printer's ink, has been applied. It will be seen, however, that the tab member 6 will adhere to the perforated areas 11 and is also sealed through its marginal portions

to the tab member 5 beneath, so that the contents of the carton are effectually prevented from sifting or leaking through the closed end of the packet. When it is desired to use the contents of the carton, the area or section 13 is detached from the tab 6 along the scored and cut line 14 and is lifted or completely removed. As the perforated areas 11 are not covered with an adhesive repellent and have adhered to the section 13 of the tab 6, they, of course, will be readily pulled out of their attachment to the tab 5 and will be lifted or removed with the section 13. The contents may then be shaken out of the apertures left by the removal of the areas 11.

If desired, the portion 13 of the tab member 6 may, as is indicated in Fig. 4, be left attached along one edge to the member 6 and can thus be utilized as a closure.

The terms and expressions which I have employed are used as terms of description and not of limitation, and I have no intention, in the use of such terms and expressions, of excluding any equivalents of the features shown and described, or portions thereof, but recognize that various modifications are possible within the scope of the invention claimed.

What I claim is:

1. In a carton having end closing tab members, the outermost tab member having a separable section thereof, said section being secured to severable portions in the portion of a tab member beneath the said section, the separable section and the severable portions being removable from their position in the tabs to permit the contents of the carton to be shaken out through the apertures thereby created.

2. In a carton having end closing tab members, a section in the outermost tab member and a plurality of areas in an inner tab member suitably secured together, the section and areas being separable from the tabs of which they form parts, the said tabs upon removal of said section and areas having apertures out through which the contents of the carton may be shaken.

3. In a carton having end closing tab members, a section in the outermost tab member bounded by a severable line, the portion of an inner tab member lying immediately beneath the said section having severable parts attached to the said section and removable with it, whereby shaker apertures are formed in the carton end.

4. In a carton having end closing tab members, a removable section in the outermost tab member bounded by a severable line, a portion of the inner tab member lying immediately beneath the said section having an adhesive repellent surface to prevent the adhesion of the said section thereto, other portions of the said inner tab member having adhesive absorbing surfaces, whereby the other portions of the inner tab member will

adhere to the said section and be removed with it to form shaker openings in the end of the carton.

In testimony whereof, I have signed my name to this specification this 23rd day of February, 1928.

HENRY L. METZGER.

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