June 18, 1940. B. R. FARRAND 2,205,158

CARTON FOR CONTAINING STRAWS AND THE LIKE

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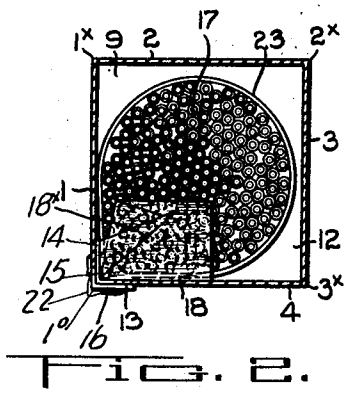


Fig. 2.

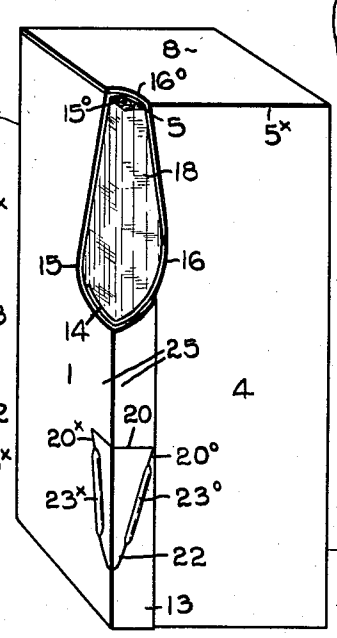


Fig. 1.

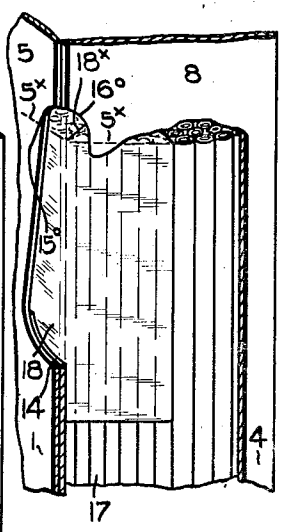


Fig. 4.

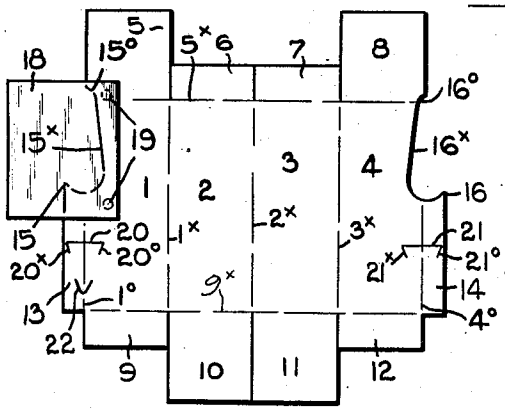


Fig. 5.

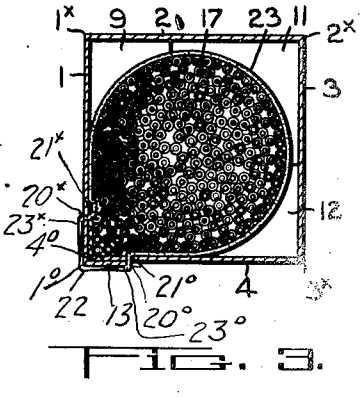


Fig. 3.

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2,205,158

CARTON FOR CONTAINING STRAWS AND THE LIKE

Burdette Richmond Farrand, Toronto, Ontario, Canada

Application July 14, 1938, Serial No. 219,287
In Canada November 27, 1937

6 Claims. (Cl. 229—17)

My invention relates to improvements in cartons for containing straws and the like, and the object of the invention is to devise a carton in which the straws will be protected from dust and dirt when in stock, in which the ends of the straws which contact the lips of the user will be protected from contamination by the fingers when being withdrawn from the carton, and in which the straws are fed continuously forward to the gripping point, and it consists essentially of the arrangement and construction of parts all as hereinafter more particularly explained.

Fig. 1 is a perspective view of my carton filled for use.

Fig. 2 is a sectional plan view taken directly beneath the carton top.

Fig. 3 is a similar view to Fig. 2 taken directly above the means for feeding the straws forward.

Fig. 4 is an enlarged detail of a fragmentary portion of the carton showing the discharge orifice and adjacent parts.

Fig. 5 is a plan view of the unfolded blank out of which the carton is formed.

In the drawing like letters of reference indicate corresponding parts in the different views.

The carton comprises side walls 1, 2, 3 and 4 separated by the crease lines $1^{\times}$, $2^{\times}$ and $3^{\times}$. 5, 6, 7 and 8 are flaps separated from the upper ends of the walls 1 and 2, 3 and 4, by the crease line $5^{\times}$ and foldable thereon to form the top wall of the carton.

9, 10, 11 and 12 are flaps separated from the lower ends of the walls 1, 2, 3 and 4, by the crease line $9^{\times}$. 13 is an extension flap extending laterally from the wall 1 and separated therefrom by the crease line 1^{0}. 14 is an extension flap extending laterally from the wall 4 and separated therefrom by the crease line 4^{0}.

15 and 16 are notches, the lower major portions $15^{\times}$ and $16^{\times}$ of which are formed respectively in the flap 13 and wall 1 and in the flap 14 and wall 4 and centred respectively on the crease lines 1^{0} and 4^{0}. The upper or minor portions of the notches 15^{0} and 16^{0} are formed in the upper flaps 5 and 8 of the upper end wall of the carton. The notches 15 and 16, when the walls 1 and 4 and flaps 13 and 14 are folded into an overlapping position, form a complete dispensing opening as illustrated particularly in Fig. 1 through which the straws or other contents of the carton are withdrawn either forward at their upper ends or longitudinally upward.

17 are the straws forming the contents of the carton. 18 is a piece of Cellophane which is secured to the inner face of the blank as indicated at 19 by spots of adhesive or otherwise.

20 and 21 are horizontal slits formed in the flaps 13 and 14 and walls 1 and 2, the slits being provided with inwardly converging downward extensions $20^{\times}$ and 20^{0} and $21^{\times}$ and 21^{0}. 22 is a tongue formed by an upwardly inclined incision in the blank centred on the crease line 10 and spaced below the slit 20.

23 is an endless elastic band which extends around the straws to draw them into a bundle. One portion of the band 23 is passed through the slits 20 and 21, the side portions $23^{\times}$ and 23^{0} being held apart in the slit extensions $20^{\times}$, $21^{\times}$ and 20^{0}, 21^{0}, such portions converging downward to form a loop which is anchored beneath the tongue 22 and thus draw the straws into the corner of the carton formed by the converging walls 1 and 4 as indicated clearly in Fig. 3 and into position closely adjacent to the centre of the orifice 15—16 so that they may be gripped by the fingers of the customer for withdrawal.

The distance between the slit portions $20^{\times}$ and $21^{\times}$ and the base of the tongue 22 is substantially equal to the length of the elastic band. Then when the last straw is in position to be withdrawn, that portion of the band extending between the slit extensions $20^{\times}$ and 20^{0} is tight against the last straw. The last straw is thus carried into position to be dispensed.

It will be noted that the lower end of the orifice 15—16 is wide to allow of the passage of the fingers therethrough to grip a straw at a point intermediately between the ends of the straw. The side edges of the orifice converge towards each other towards the upper end of the orifice and thus prevent the upper portion of the straw being gripped by the fingers and thus be in danger of contamination. The orifice extends into the walls 5 and 8 at 15^{0} and 16^{0} so as to permit the straws being lifted vertically upward for removal.

The slit 20 being spaced from the lower end of the orifice 15—16, provides a wall portion 25 against which the straws are firmly held by the band 23 so that they are retained in an upright position and caught sag forward at their upper ends to present an untidy appearance.

In order that the straws may be protected from dust when in stock or on the shelf, I provide the piece of Cellophane 18 above referred to which is secured at 19 and folded around the corner of the carton bundle to cover the opening 15—16, the top of the strip being folded over the top of the bundle as indicated at $18^{\times}$ so as to protect

the upper ends of the straws from dirt passing through the upper portions 15⁰ and 16⁰ of the orifice 15—16.

From this description it will be seen that I have devised a carton which will protect the straws or other contents from dust and dirt and prevent contamination by the fingers of those parts of the straws which come in contact with the lips of the user.

What I claim as my invention is:

1. In a carton for containing straws and the like, an unfolded blank forming the walls of the carton, an extension flap extending from the opposed end edges of the blank in each of which and in each opposite end edge a notch is cut whereby a discharge orifice is formed in a corner of the carton by the blank when folded with the extension flaps in an overlapping position, such orifice extending from the centre of the blank to the top of the folded carton.

2. In a carton for containing straws and the like, a blank foldable to form the side and end walls of a carton, overlapping portions forming extensions of two adjacent side walls of the folded carton and overlapping portions forming the end walls of the carton, notches formed in the side wall extensions and an end wall which by the folding of the blank so that the extensions overlap form orifices through which the straws are gripped, such orifice being so formed as to permit the outward and upward passage of a gripped straw as it is withdrawn from the carton.

3. In a carton for containing straws and the like, a carton wall structure having a straw-dispensing orifice therein, a transverse slit formed in the wall structure and spaced from the lower end of the orifice, means anchored to the exterior of the carton and extending through the slit to engage the straws to draw them firmly against that portion of the wall intervening between the slit and orifice to retain the straws in an upright position.

4. In a carton for containing straws and the like, a carton wall structure having a straw-dispensing orifice therein, a transverse slit formed adjacent the lower end of the dispensing orifice, an elastic band forming a loop extending through the slit and around the contained straws at one end, and means for anchoring the opposite end of the band a distance below the slit substantially equal to the length of the band loop when the band is unstretched.

5. In a carton for containing straws and the like, carton side and end wall structures having a straw dispensing orifice formed in the side walls and extending at one end into an end wall, and a piece of rupturable material secured to the inner face of the side wall at one side of the orifice and extending freely over that portion of the orifice formed in the side wall structure and having a free upper portion foldable to extend over that portion of the orifice formed in the end wall structure and over the ends of the straws contained in the carton.

6. The combination with an elastic band adapted to surround a bundle of straws, of a carton for containing the straws having a discharge slot and a slit portion below the slot through which the band extends, and means for anchoring the band exterior of the carton, such means being so located that the contracted band extends around the anchoring point through the ends of the slit and directly between such ends whereby the band bears on the last straw of the bundle to feed it to the discharge slot for removal.

BURDETTE RICHMOND FARRAND.