

May 25, 1937.

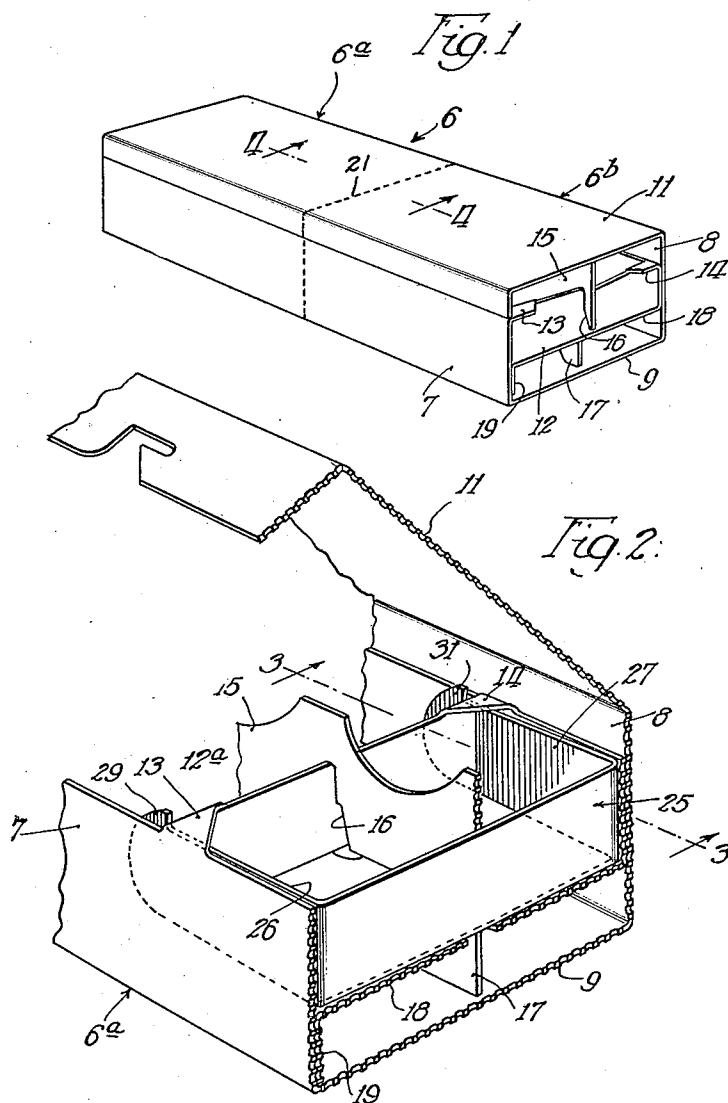
A. E. BUESCHEL

2,081,574

CARTON

Filed Nov. 21, 1934

2 Sheets-Sheet 1



Witness
U. Silander

Inventor
Andrew E. Bueschel
Hill & Hill Attys

May 25, 1937.

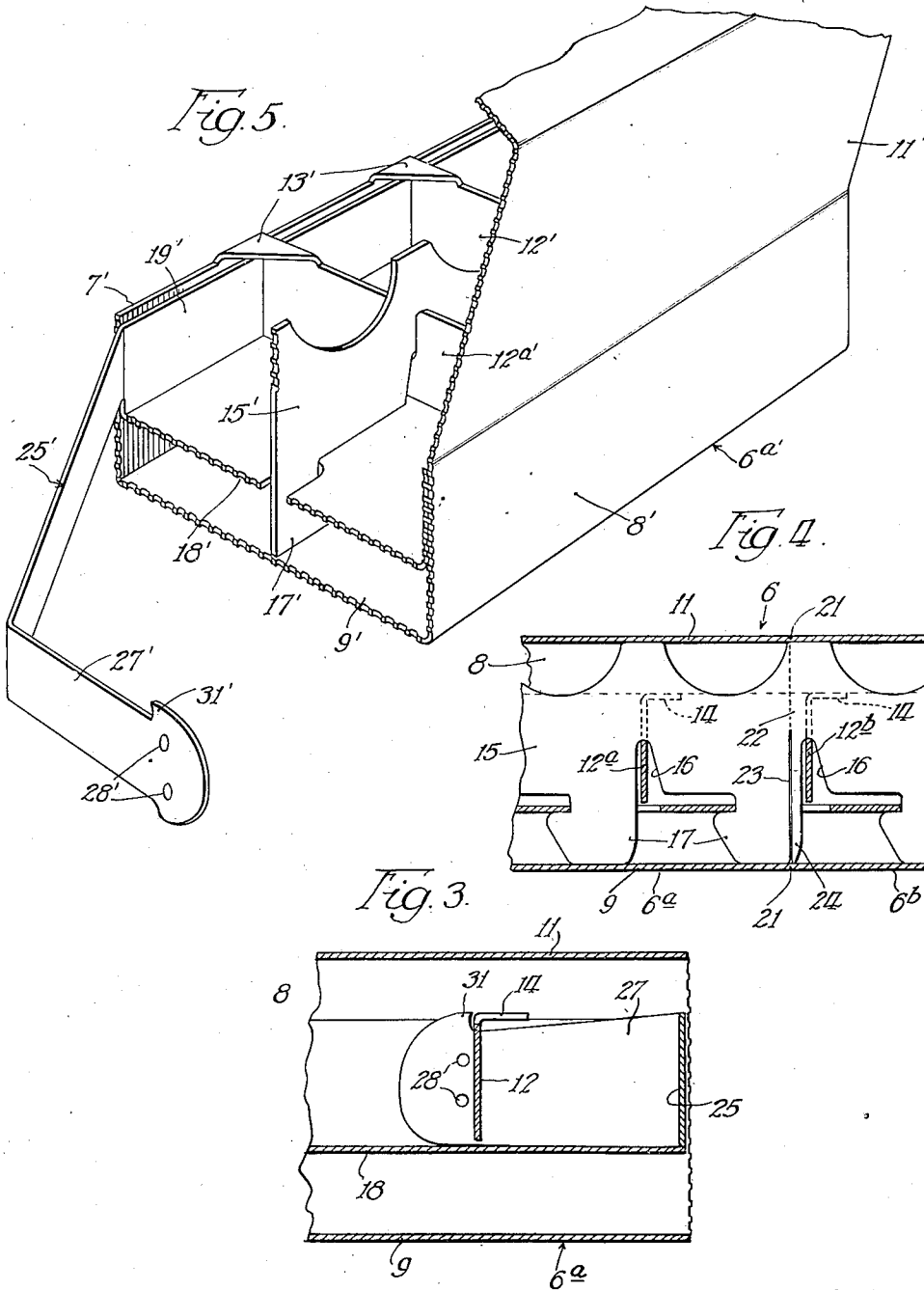
A. E. BUESCHEL

2,081,574

CARTON

Filed Nov. 21, 1934

2 Sheets-Sheet 2



Witness
U. Siljander

Inventor
Andrew E. Bueschel
Hill & Hill, Attys.

UNITED STATES PATENT OFFICE

2,081,574

CARTON

Andrew E. Bueschel, Chicago, Ill., assignor, by
mesne assignments, to Carton & Specialties,
Inc., Chicago, Ill., a corporation of Illinois

Application November 21, 1934, Serial No. 754,063

17 Claims. (Cl. 229—29)

This invention relates to cartons, and particularly to cartons which may be readily separated into a plurality of disconnected units when found desirable to divide or separate the contents of the carton.

One object of the present invention is to provide a carton, separable to form disconnected units and having a plurality of compartments therein, and wherein the end of a compartment left open by the removal of a portion of the carton may be closed to retain the contents in said compartment.

Another object of the invention is to provide a carton having a longitudinal partition and transverse partitions therein providing a plurality of compartments, and separable transversely of its length to form a plurality of disconnected units, and to provide means for retaining the contents in the compartments adjacent the line of separation.

A further object of the invention is to provide a retaining member for a carton unit formed integrally with the carton structure.

A still further object of the invention is to improve an article of the character described in sundry details hereinafter referred to and particularly pointed out in the appended claims.

Embodiments of the present invention are shown for illustrative purposes in the accompanying drawings, in which:

Fig. 1 is a perspective view of a carton containing an embodiment of the present invention and illustrating the means by which the carton may be separated into a pair of disconnected units;

Fig. 2 is an enlarged fragmentary perspective view of one end of a carton unit after the other unit has been disconnected therefrom, and illustrating features of the present invention associated therewith;

Fig. 3 is a fragmentary longitudinal sectional elevation of the structure illustrated in Fig. 2, and taken substantially as indicated by the line 3—3 thereof;

Fig. 4 is an enlarged fragmentary sectional elevational view of a portion of the structure illustrated in Fig. 1, and taken substantially as indicated by the line 4—4 thereof; and

Fig. 5 is a fragmentary perspective view of a portion of a carton unit illustrating a slightly modified construction of which the present invention is susceptible.

Referring particularly to Figs. 1 to 4, inclusive, the present invention is shown in conjunction with a carton, suitable for containing

eggs or the like, indicated as a whole by the numeral 6, and comprising front and rear walls 7 and 8, respectively, a bottom 9, cover 11, and vertically disposed transverse partitions 12, the partitions adjacent the central transverse portion of the carton being indicated by the numerals 12a and 12b, operatively connected adjacent the upper edge portion of their respective ends to the front and rear walls 7 and 8, respectively, by means of flat portions 13 and 14. The illustrative embodiment also comprising a centrally located, longitudinally extending partition 15 having a plurality of recesses 16 formed in its lower edge portion for receiving the transverse partitions 12, 12a and 12b, and having supporting portions 17 extending through an inner or false bottom 18 spaced from the bottom 9 and connected to the front wall 7 by means of a supporting strip 19.

To facilitate the separation or severance of the carton 6 transversely of its longitudinal dimensions to form a plurality of carton units 6a and 6b, a weakened portion shown, in the present instance, as a line of scoring indicated by the numeral 21 is formed in the cover 11, bottom 9, front and rear walls 7 and 8, respectively, and the inner or false bottom 18 of the carton, and also with a weakened portion such as a line of scoring 22 formed in the central longitudinal partition 15 adjacent and at one side of one of the recesses 16 and one of the transverse partitions indicated at 12b (Fig. 4), the lower end of the scoring 22 terminating in an elongated slot 23 (Fig. 4) extending through the longitudinal partition 15 in a manner to form a retaining finger 24 as clearly illustrated in Fig. 4.

It will be observed that by such an arrangement, the carton 6 may be readily separated along a line transversely of its length when found desirable to separate or divide the contents of the carton, as, for example, in selling or dispensing a half dozen eggs, or the like, and that with such separation of the carton into a plurality of disconnected units, the retaining finger 24 will provide a support for the transverse partition 12b of the carton unit 6b illustrated in Fig. 4 to retain the contents in the compartments thereof adjacent the line of separation.

When the carton 6 is separated into its respective disconnected carton units 6a and 6b, the removal of the transverse partition 12b of the carton unit 6b (Fig. 4) will leave the compartments in the carton unit 6a adjacent the line of separation open, and to retain and support the contents of these compartments in the carton

unit 6a adjacent the line of separation, a closure member or retaining strip, indicated as a whole by the numeral 25, is adapted to be positioned adjacent the open side of the compartments in the carton unit 6a adjacent the line of separation, as clearly illustrated in Fig. 2, the retaining strip 25 being provided with laterally bent side portions 26 and 27 adapted to be positioned between opposite ends of the adjacent transverse partition 12a on the unit 6a and the front and rear walls 7 and 8, respectively, of the carton, the side portions 26 and 27 being provided adjacent their ends with laterally and inwardly extending protuberances 28 (Fig. 3) adapted to cooperate with the end portions of the transverse partition 12a for securing the retaining strip 25 against displacement with respect to the carton unit 6a, and for providing further assurance against possible displacement of the retaining strip 25, the side portions 26 and 27 are provided adjacent their respective ends with laterally and upwardly extending hook-like portions 29 and 31 adapted to engage the flat portions 13 and 14, respectively, by which the opposite ends of the partition 12a of the carton unit 6a (Fig. 2) are connected to the front and rear walls 7 and 8 of the carton.

By such an arrangement, it will be observed that the contents of the compartments in the respective carton units 6a and 6b adjacent the line of separation may be retained securely within the compartments for the further handling thereof in the respective units.

The structure illustrated in Fig. 5 is substantially like that described with reference to Figs. 1 to 4, inclusive, except that the downwardly extending supporting strip which is designated 19 in Fig. 1 is now turned up and designated in Fig. 5 as 19'. A part of the width of strip 19' is left unsecured in section 6b and is utilized to provide a closure member or retaining strip 25' having a side portion 27' formed thereon and adapted to be positioned between the end of a transverse partition 12a' and the rear wall 8' of the carton, after the manner described with reference to the side portion 27 of Fig. 2. It is to be observed that a portion of the strip 19' in section 6a is continuous with the closure member 25' without perforation at the line of division for the undivided carton proper.

For securing the retaining member 25' against displacement, the side portion 27' may be provided with laterally or inwardly extending protuberances 28' adapted to engage an adjacent end portion of the transverse partition 12a', and as a further assurance against displacement, may be provided with a laterally or upwardly extending hook-like portion 31' adapted to engage one of the flat portions similar to the portion indicated at 14 (Fig. 2) by which the transverse partition 12a' is connected to the rear wall 8' of the carton.

For taking care of the retaining strip 25' of the structure illustrated in Fig. 5, before the carton is separated into its respective disconnected units, the strip may be positioned along the inner side of one or the other of the units, or folded upon itself in a manner to occupy a position in one of the compartments formed in the carton unit 6a' adjacent the line of separation or, if desired, may be positioned in cooperative relationship with the transverse partition 12a' even before the carton is separated into its respective units.

It will be obvious from the foregoing description that the present invention provides a car-

ton capable of being separated transversely of its length into a plurality of disconnected units, and wherein novel means are provided for retaining the contents in the compartments of the respective carton units adjacent the line of separation.

Obviously, the present invention is not limited to the precise construction and arrangement shown and described, as the same may be variously modified. Moreover, all of the features of the invention need not be used conjointly as the same may be used to advantage in variously different combinations and subcombinations.

What I claim as new and desire to secure by Letters Patent is:

1. A carton having a plurality of transverse partitions formed integrally with the carton and forming a plurality of compartments, a line of scoring formed in the carton and extending transversely thereof adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said scoring connected thereto, and a separable vertically disposed closure member operatively connected to a transverse partition in the other of said units for closing the end of the compartment in said other unit left open by the removal of the partition adjacent said scoring.

2. A carton having a plurality of transverse partitions therein, a longitudinal partition having recesses formed in one of its edge portions adapted to receive the respective transverse partitions to form a plurality of compartments, the material of said carton and said longitudinal partition having a line of scoring extending transversely thereof in offset relation with respect to one of said recesses and one of the transverse partitions positioned therein to facilitate separating the carton and longitudinal partition to form a pair of disconnected units, the portion of the longitudinal partition in one of said units having a finger thereon adjacent the line of separation for retaining an adjacent transverse partition in operative position, and a closure strip adapted to be positioned in the other of said units adjacent the line of separation for closing the open side of adjacent compartments formed in said other unit, said strip having means adjacent its respective end portions engageable with a transverse partition for securing said strip in operative position.

3. A carton having a plurality of transverse vertical partitions therein, a longitudinal partition having recesses formed in one of its edge portions adapted to receive the respective transverse partitions to retain them in substantially vertical position and to form a plurality of compartments, the material of said carton and said longitudinal partition having a line of scoring extending transversely thereof adjacent and in offset relation with respect to one of said recesses and one of the transverse partitions positioned therein to facilitate separating the carton and longitudinal partition to form a pair of disconnected units, the portion of the longitudinal partition in one of said units having a downwardly extending finger thereon adjacent the line of separation for retaining said one of the transverse partitions in substantially vertical position, and a closure strip adapted to be positioned in the other of said units adjacent the line of separation for closing the open side of adjacent compartments formed in said other unit, said strip having laterally projecting means adjacent its respective

end portions engageable with the respective end portions of a transverse partition for securing said strip in operative position.

4. A carton having front and rear walls and a plurality of substantially vertical partitions therein forming a plurality of compartments, the material of the carton having a weakened portion adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said weakened portion connected thereto, a closure strip on the other of said units and having its respective end portions positioned between the respective ends of a partition on said other unit and the front and rear walls thereof, and laterally extending projections adjacent the respective ends of said strip engageable with the respective end portions of said last mentioned partition for maintaining an intermediate portion of said closure strip in position to close the compartment in said other unit adjacent said weakened portion.

5. A carton having front and rear walls and a plurality of substantially vertical partitions therein forming a plurality of compartments, the material of the carton having a weakened portion adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said weakened portion connected thereto, a closure strip on the other of said units and having its respective end portions positioned between the respective ends of a partition on said other unit and the front and rear walls thereof, and inwardly extending protuberances adjacent the respective ends of said strip and engageable with the respective end portions of said last mentioned partition for maintaining an intermediate portion of said closure strip in position to close the compartment in said other unit adjacent said weakened portion.

6. A carton having front and rear walls and a plurality of substantially vertical transverse partitions therein forming a plurality of compartments, said partitions including substantially flat portions adjacent their respective ends for connecting the partitions to said front and rear walls, the material of the carton having a weakened portion adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said weakened portion connected thereto, a closure strip on the other of said units and having its respective end portions positioned between the respective ends of a partition on said other unit and the front and rear walls thereof, and laterally extending hook-like portions adjacent the respective ends of said strip engageable with said flat portions at the ends of said last mentioned partition for maintaining said closure strip in operative position with respect to said other unit.

7. A carton unit having front and rear walls and a plurality of transverse partitions connected thereto providing a plurality of compartments, and a closure strip adjacent one end of said unit, said strip having laterally extending projections adjacent its ends engageable with portions of one of said partitions for securing the strip in operative position with respect to the unit.

8. A carton having front and rear walls and a plurality of substantially vertical transverse partitions therein forming a plurality of compartments, the material of the carton having a weakened portion adjacent and at one side of one of

said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said weakened portion connected thereto, a closure strip integrally connected adjacent one of its end portions to the other of said units and having its opposite end portion positioned between one of said walls and the end of one of said partitions, and laterally extending projections on said last mentioned end portion of said strip engageable with said last mentioned partition for maintaining said closure strip in operative position with respect to said other unit.

9. A carton having front and rear walls and a plurality of substantially vertical transverse partitions therein forming a plurality of compartments, said partitions including substantially flat portions adjacent their respective ends for connecting the partitions to said front and rear walls, the material of the carton having a weakened portion adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said weakened portion connected thereto, a closure strip formed integrally with and connected adjacent one of its end portions to the other of said units, the opposite end of said strip having a laterally extending hook-like portion engageable with one of the flat portions adjacent the end of one of said partitions for maintaining the closure strip in operative position with respect to said other unit.

10. A carton having front and rear walls and a plurality of substantially vertical transverse partitions therein forming a plurality of compartments, said partitions including integral connecting portions adjacent their respective ends for connecting the partitions to said front and rear walls, the material of the carton having a weakened portion adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having a partition connected thereto adjacent said weakened portion, a closure strip formed integrally with and connected adjacent one of its end portions to the other of said units, the opposite end of said strip having a laterally extending projection engageable with the end portion of one of said partitions for maintaining the closure strip in operative position with respect to said other unit.

11. A carton having front and rear walls and a plurality of substantially vertical partitions therein forming a plurality of compartments, the material of the carton having a weakened portion adjacent and at one side of one of said partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said weakened portion connected thereto, a closure strip on the other of said units and having laterally extending portions adjacent its respective ends operatively connected to said other of said units for closing the end of the compartment in said other unit left open by the removal of the partition adjacent said scoring.

12. A carton having a main bottom, front and rear side walls, an inner bottom supported adjacent its longitudinal edges by said walls in spaced relation to said main bottom, a plurality of longitudinally spaced transverse partitions integrally connected to said side walls above said inner bottom, a longitudinal partition having a plurality of spaced recesses formed in its lower edge adapted to receive said transverse partitions,

a line of scoring formed in the carton and extending transversely thereof adjacent and at one side of one of said transverse partitions to facilitate separating the carton into a pair of disconnected units, one of said units having the partition adjacent said scoring connected thereto, and a vertically disposed closure member having laterally extending portions adjacent its respective ends operatively connected to the other of said units for closing the end of a compartment in said other unit adjacent the line of separation.

13. A carton having a main bottom, front and rear side walls, an inner bottom having a plurality of spaced apertures formed therein adjacent its central longitudinal portion and supported adjacent its longitudinal edges by said walls in spaced relation to said main bottom, a plurality of longitudinally spaced transverse partitions integrally connected to said side walls above said inner bottom, a longitudinal partition having a plurality of spaced recesses formed in its lower edge adapted to receive said transverse partitions and having a plurality of supporting portions extending through said apertures and beneath said inner bottom for supporting the central longitudinal portion thereof in spaced relation to said bottom, said carton and longitudinal partition being severable transversely of their length to form a pair of disconnected units, and a plurality of retaining means operatively related respectively to said longitudinal partition on one of said units and to certain of said transverse partitions on the other of said units for retaining the contents in the compartments of the respective units adjacent the line of severance.

14. A transversely divisible carton of paper or the like having walls forming a cover, a bottom and two longitudinal sides, said walls of the carton being weakened along a transverse division line for breaking the carton into first and second sections, a vertical strip secured to the first section and extending in the undivided carton across the line of division into the second section and withdrawable therefrom in the act of dividing the carton, said strip being foldable laterally to provide a closure over at least a portion of the divided end of the first section, and means operatively associated with the first section for holding said strip effectively in said closing position.

15. A transversely divisible carton of paper or

the like having walls forming a cover, a bottom and two longitudinal sides, said walls of the carton being weakened along a transverse division line for breaking the carton into first and second sections, a strip secured to one of the side walls of the first section and extending in the undivided carton across the line of division into the second section alongside the corresponding side wall of said second section and withdrawable from said second section in the act of dividing the carton, said strip being foldable laterally to provide a closure for at least a part of the divided end of the first section, said strip having its free end as an extension for the closure part and foldable as a tuck-in member to lie inside the first section alongside the other side wall of the first section.

16. A transversely divisible carton of paper or the like having walls forming a cover, a bottom and two longitudinal sides, said walls of the carton being weakened along a transverse division line for breaking the carton into first and second sections, a vertical strip adapted to extend laterally from one side wall at least to the other side wall to form a closure at least in part for a divided end of one of said sections, said strip having at least one free end foldable inwardly to lie against one of said longitudinal sides, and a connection adjacent the other side wall for holding said strip in place at its junction with said side wall.

17. A transversely divisible carton of paper or the like having walls forming a cover, a bottom and two longitudinal sides, one of the side walls having a longitudinal portion of its width provided by at least two layers of material, said walls being weakened along a transverse line of division for breaking the carton into first and second sections, save that a portion of one of the overlying layers is not weakened on said division line to form a longitudinal tongue normally forming a portion of the side of the carton, said tongue being connected non-severably in the first section and being removable from a side of the second section in the act of dividing the carton into sections whereby the said tongue is available to form an end closure for folding over the severed end of the first section.

ANDREW E. BUESCHEL.