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(54) **COLLAPSIBLE CARRY CARTON**

(57) **Abstract:**

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This invention relates to cartons and more particularly to the type of carton having a wall structure and an interior assembly therein arranged to divide the interior of the carton into a plurality of adjacent longitudinal rows of article receiving compartments, said interior assembly including an extensible handle member by means of which, said carton and its contents can be carried.

Many types of such cartons are known, however, the present invention has for its object to provide an improved handle arrangement whereby the load of the carton, when carried by said handle, will be more evenly distributed.

According to its broadest aspect, the invention comprises an enclosed carton of the type having a wall structure comprising side and end walls and a bottom, said carton including a top closure and an interior assembly within said carton arranged to divide the interior of the latter into a plurality of adjacent longitudinal rows of article receiving compartments, said interior assembly including a unitary member secured to the wall structure and having a pair of primary panel portions spaced apart throughout their length and integrally connected together along a common upper edge provided with at least one slot therein; said portions extending along the central longitudinal axis of the carton and serving as a pair of first longitudinal partitions, and a plurality of secondary panel portions each hingeably and integrally connected, at one end thereof, to an adjacent primary panel portion and being bent outwardly therefrom to extend at right angles to, and between, the latter and an adjacent side wall of the carton, each said secondary panel portion serving as a transverse partition, said interior

assembly also including an extensible handle member cooperating with said unitary member and provided with a hand carrying extension, said handle member being movable between a first retracted position in which said carrying extension lies beneath said top closure and a second operative position in which said extension projects above said top closure, said handle member including an upper part located above and in alignment with said common upper edge, and provided with said hand carrying extension, and a lower part located below said common upper edge and forming a second longitudinal partition, said parts extending along the central longitudinal axis of the carton and being maintained in spaced relation and connected together by an intermediate part capable of movement in said slot; said lower part of the handle member, when the latter is in its said second operative position, contacting the underside of said common upper edge to limit further outward movement of said handle member; said upper part of the handle member, when the latter is in its said second operative position and said top closure is in operative position, contacting the underside of said top closure which thereby absorbs a portion of the load of the carton when the latter is carried by said hand carrying extension; said upper part of the handle member, when the latter is in its said first retracted position, contacting the said common upper edge to limit the extent of movement of said handle member in its said first retracted position.

An example of this invention is illustrated in the accompanying drawings, in which,

Figure 1 is a perspective view of an enclosed carton with the top closure shown in its operative position;

Figure 2 is a perspective view a part of the upper portion of the carton illustrated in Figure 1 with the carrying handle shown projecting outwardly therefrom;

5 Figure 3 is a plan view of a one-piece blank adapted to form a unitary member arranged to divide the interior of the carton into a plurality of adjacent longitudinal rows of article receiving compartments;

10 Figure 4 is a horizontal section taken on the line 4-4 of Figure 1, showing the unitary member and handle member in plan;

Figure 5 is a fragmentary view similar to Figure 4 showing the carton in partly collapsed condition;

15 Figure 6 is a vertical section taken on the line 6-6 of Figure 4, showing the carrying handle member in its upper or second operative position;

Figure 7 is a horizontal section taken on the line 7-7 of Figure 6;

20 Figure 8 is a vertical cross section taken on the line 8-8 of Figure 4, showing the handle member in its second operative position; and

Figure 9 is a perspective view of the handle member.

25 Referring to Figures 1 and 2 of the drawings, 10 is a collapsible carry carton having a wall structure 11 comprising side walls 12 and 13, end walls 14 and 15, and a bottom 17, said carton also including a top closure 16. The closure comprises side flaps 20 and 21 preferably integrally connected respectively to the side walls 12 and 13, and end flaps 23 and 24 preferably integrally connected respectively with end walls 14 and 15, see
30 Figure 6. The bottom 17 is also made up of side and end flaps

in the same manner as the top. The carton walls and flaps are formed of a single piece of suitable material, such as corrugated cardboard or fibre board, as is common in this art.

When the top closure 16 of the carton is in closed operative position, as in Figure 2, the edges of side flaps 20 and 21 come together as indicated at 28. The adjacent edges of these flaps are cut away to form a slot 29 extending longitudinally of the carton centrally thereof. In the preferred form of the invention, flaps 20 and 21 respectively are creased along lines 31 and 32 thereby forming small tabs 33 and 34 on opposite sides of slot 29 which may be pried upwardly into the position shown in Figure 2.

The one-piece blank adapted to form a unitary member arranged to divide the interior of the carton into a plurality of adjacent longitudinal rows of article receiving compartments is shown in Figure 3 and is scored longitudinally and centrally thereof along score lines 42 so as to provide a pair of primary panel portions 38, 46 and so that it may be bent over to form a common upper edge 43. Each primary panel portion 38, 46 is provided with a plurality of spaced parallel incisions 48, 49 respectively, arranged at an oblique angle to said score lines 42, and a plurality of spaced parallel score lines 55, 61 respectively, each arranged at right angles to the score lines 42. It will be noted from reference to Figure 3 that each of the oblique score lines 48, 49 extends from a point adjacent to the score lines 42 to an associated marginal side edge of the blank.

Thus, the parts of the blank bounded by portions of a pair of the oblique incisions and portions of a pair of the spaced score lines form secondary panel portions 42a-42e and 45a-45e. The parts of the blank bounded by a portion of an oblique incision,

a portion of a spaced score line and a portion of an adjacent marginal edge of the blank form a plurality of end tabs 56a-56e and 62a-62e.

5 A pair of spaced slots 87, 88 is provided in the common upper edge 43.

10 Figure 9 clearly shows the extensible handle member having an upper part, indicated generally at 70 and which is preferably formed from a single piece of material such as corrugated cardboard, stiff cardboard or the like, bent over at 71 to form parallel sides 72 and 73 having aligned openings therein to form a hand hole 74 in a hand carrying extension indicated generally at 74¹, said upper part of the handle member being provided with a pair of shoulders 78 and 79. The handle member also includes a lower part, indicated generally at 83, provided with a pair of shoulders 90, said upper and lower parts being main-
15 tained in spaced relation and connected together by an intermediate part which comprises a pair of strips 84 extending from the lower part 83 of the handle into the space between the sides 72 and 73 of the upper part 70 of the handle member.

20 In assembling the carton to its knock-down form, the lower part 83 of handle member is placed upon the blank shown in Figure 3 so that the upper portions of the intermediate strips 84 project through the slots 87, 88 of the said blank. The blank shown in Figure 3 is then folded along the score lines 42 so that
25 the pair of complementary primary panel portions 38, 46 lie substantially parallel to one another with the lower part 83 of the handle member therebetween. The upper part 70 of the handle member is then attached to the intermediate strips 84 so that said upper part will be located above the common upper
30 edge 43.

The unitary member, and handle member thus formed, is then united with any suitable blank (not shown) adapted to form the wall structure of the carton so that the end tabs 56a-56e and 62a-62e can be secured to an adjacent side wall of the carton in any convenient manner, preferably however by adhesive.

Figures 4 to 8 show the unitary member positioned within the wall structure 11. The pair of primary panel portions 38, 46 extend longitudinally and centrally of the casing so as to form a pair of first longitudinal partitions integrally connected together by the common upper edge 43, said partitions extending from end wall 14 to end wall 15 of the carton. The common upper edge 43 is spaced below the top closure of the carton, while the lower edge 65, (see Figure 8,) of said pair of first longitudinal partitions is spaced above the bottom of the carton, said partitions being spaced apart throughout their length. As each of the secondary panel portions is hingeably connected, at one end thereof, to an associated primary panel portion, it extends outwardly and downwardly from the latter and serves as a transverse partition extending at right angles between the said associated primary panel portion and an adjacent side wall of the carton. As each of the end tabs 56a-56e and 62a-62e is hingeably connected, at one end thereof, to an associated secondary panel portion, it extends at right angles to the latter and parallel to the primary panel portions and an adjacent side wall of the carton. Although the end tabs are preferably secured to the wall structure by adhesive, they may be secured in any other desired manner, such as by means of staples.

By referring to Figure 4, it will be seen that the end tabs are folded in opposite directions, that is, the tabs

56a-56e extend towards one end of the carton casing, while tabs 62a-62e extend towards the opposite end thereof. This arrangement makes it possible easily to move the side walls 12 and 13 towards each other in order to collapse the carton, as indicated in Figure 5. The side and end flaps of the top closure and bottom of the carton project straight out therefrom when the carton is collapsed, as is common with cartons of this type.

The extreme right hand (as viewed in Figure 3), end one of score lines 61 of primary panel portion 46 serves as a first score line forming the hingeable connection between end secondary panel portion 45e and its hingeable end tab 62e. A second of said score lines 61 at least forms the hingeable connection between secondary panel portion 45d and primary panel portion 46, and a further score line 61, intermediate said first and second score lines, forms the hingeable connection between end secondary panel portion 45e and the associated primary panel portion 46 as well as the hingeable connection between secondary panel portion 45d and its end tab 62d.

The extreme left hand, (as viewed in Figure 3) end one of the score lines 55 of primary panel portion 38 serves as a first score line forming the hingeable connection between end secondary panel portion 42e and its hingeable end tab 56e. A second of said score lines 55 at least forms the hingeable connection between secondary panel portion 42d and primary panel portion 38 and a further score line 55, intermediate said first and second score lines, forms the hingeable connection between end secondary panel portion 42e and the associated primary panel portion 38 as well as the hingeable connection between secondary panel portion 42d and its end tab 56d.

Figures 6 to 8 clearly show the handle member and the unitary member mounted in the carton. The lower part 83 of the handle lies between and is slidable within the pair of first longitudinal partitions and forms a second longitudinal partition. The handle member cooperates with the unitary member and is movable between a first retracted position in which its carrying extension 74' lies beneath the top closure and a second operative position in which said extension projects above the top closure, the intermediate strips 84 being capable of movement within the slots 87 and 88 in the common upper edge 43 of the unitary member.

As will be seen more clearly from Figures 6 and 8, when the handle member is in its said second operative position, the shoulders 90 of its lower part 83 contact the underside of the common upper edge 43 of the unitary member to limit further outward movement of the handle member. Moreover, when the handle member is in its said second operative position and the top closure is in its closed operative position, the shoulders 78, 79 of the upper part 70 of the handle member will contact the underside of said top closure which thereby absorbs a portion of the load of the carton when carried by said handle member.

When the handle member is in its first retracted position, the upper part 70 thereof contacts the common upper edge 43 of the unitary member to limit the extent of movement of said handle member in its said first retracted position. The upper and lower parts of the handle preferably extend the full length of the carton within the first pair of longitudinal partitions.

As the handle member lies in the same plane as the pair of first longitudinal partitions, the carton may be collapsed

into its flat position without having to remove the handle. In other words, the handle does not interfere with the collapsing of the carton, and said handle always remains in its proper position centrally of the carton when the latter is erected.

5 When it is desired to carry the carton, tabs 33 and 34 are lifted up, after which the operator's fingers may be inserted into the carton to grasp the hand carrying extension 74' in order that it may be pulled above the top closure of the carton, as shown in Figure 2. When the carton is carried by the
10 handle and the top closure is in closed operative position, the load of the carton is taken by the transverse partitions that are connected to the side walls of the carton near the bottoms thereof and the top closure. Normally the weight would tend to cause these side walls to bow inwardly, but the fact that the trans-
15 verse partitions are connected to these walls near the bottoms thereof prevents this, since the carton bottom prevents the lower portions of the side walls from moving inwardly. Should the side walls be allowed to move inwardly, they would be weakened by the flexing action thereof, and there would be
20 a tendency for the glue between the end tabs and the side walls to shear. However, the carton bottom practically eliminates this possibility, and the end tabs brace or support the side walls at the points where the latter are subjected to the greatest strain.

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The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. An enclosed carton of the type having a wall structure comprising side and end walls and a bottom, said carton including a top closure and an interior assembly within said carton arranged to divide the interior of the latter into a plurality of adjacent longitudinal rows of article receiving compartments, said interior assembly including a unitary member secured to the wall structure and having a pair of primary panel portions spaced apart throughout their length and integrally connected together along a common upper edge provided with at least one slot therein; said portions extending along the central longitudinal axis of the carton and serving as a pair of first longitudinal partitions, and a plurality of secondary panel portions each hingeably and integrally connected, at one end thereof, to an adjacent primary panel portion and being bent outwardly therefrom to extend at right angles to, and between, the latter and an adjacent side wall of the carton, each said secondary panel portion serving as a transverse partition, said interior assembly also including an extensible handle member cooperating with said unitary member and provided with a hand carrying extension, said handle member being movable between a first retracted position in which said carrying extension lies beneath said top closure and a second operative position in which said extension projects above said top closure, said handle member including an upper part located above and in alignment with said common upper edge, and provided with said hand carrying extension, and a lower part located below said common upper edge and forming a second longitudinal partition, said parts extending along the central longitudinal axis of the carton and being

maintained in spaced relation and connected together by an intermediate part capable of movement in said slot; said lower part of the handle member, when the latter is in its said second operative position, contacting the underside of said common upper edge to limit further outward movement of said handle member; said upper part of the handle member, when the latter is in its said second operative position and said top closure is in operative position, contacting the underside of said top closure which thereby absorbs a portion of the load of the carton when the latter is carried by said hand carrying extension; said upper part of the handle member, when the latter is in its said first retracted position, contacting the said common upper edge to limit the extent of movement of said handle member in its said first retracted position.

2. A carton according to Claim 1 including shoulders on said lower part of said handle member cooperating with the underside of said common upper edge to limit further outward movement of said handle member.

3. A carton according to Claims 1 and 2 including shoulders on said upper part of said handle member cooperating with the underside of said top closure when the latter is in operative position.

4. A carton according to Claims 1, 2 and 3 wherein the underedge of said upper part of said handle member cooperates with said common upper edge to limit movement of said handle member in its first retracted position.

5. An enclosed carton of the type having a wall structure comprising side and end walls and a bottom, said carton including a top closure and an interior assembly within said carton arranged to divide the interior of the latter into a

plurality of adjacent longitudinal rows of article receiving compartments, said interior assembly including a unitary member formed from a single piece of material folded over to provide a pair of primary panel portions spaced apart throughout their length and integrally connected together along a common upper edge provided with at least one slot therein, said portions extending along the central longitudinal axis of the carton and serving as a pair of first longitudinal partitions, and a plurality of secondary panel portions each hingeably and integrally connected, at one end thereof, to an adjacent primary panel portion and being bent outwardly therefrom to extend at right angles to, and between, the latter and an adjacent side wall of the carton, each said secondary panel portion serving as a transverse partition, certain of said panel portions each being provided with an end tab hingeably and integrally connected thereto and extending at right angles to its associated panel portion and secured to an adjacent wall of said wall structure, said interior assembly also including an extensible handle member cooperating with said unitary member and provided with a hand carrying extension, said handle member being movable between a first retracted position in which said carrying extension lies beneath said top closure and a second operative position in which said extension projects above said top closure, said handle member including an upper part located above and in alignment with said common upper edge, and provided with said hand carrying extension, and a lower part located below said common upper edge and forming a second longitudinal partition, said parts extending along the central longitudinal axis of the carton and being maintained in spaced relation and connected together by an intermediate part capable of movement in said slot; said

1 lower part of the handle member, when the latter is in its said
second operative position, contacting the underside of said
common upper edge to limit further outward movement of said
handle member; said upper part of the handle member, when
5 the latter is in its said second operative position and said top
closure is in operative position, contacting the underside of
said top closure which thereby absorbs a portion of the load of
the carton when the latter is carried by said hand carrying
extension; said upper part of the handle member, when the
10 latter is in its said first retracted position, contacting the
said common upper edge to limit the extent of movement of
said handle member in its said first retracted position.

6. A carton according to Claim 5 including
shoulders on said lower part of said handle member co-
15 operating with the underside of said common upper edge to
limit further outward movement of said handle member.

7. A carton according to Claims 5 and 6 including
shoulders on said upper part of said handle member coopera-
ting with the underside of said top closure when the latter is
20 in operative position.

8. A carton according to Claims 5, 6 and 7 wherein
the underedge of said upper part of said handle member co-
operates with said common upper edge to limit movement of
said handle member in its first retracted position.

25 9. An enclosed carton of the type having a wall
structure comprising side and end walls and a bottom, said
carton including a top closure and an interior assembly within
said carton arranged to divide the interior of the latter into a
plurality of adjacent longitudinal rows of article receiving
30 compartments, said interior assembly including a unitary

member formed from a single piece of material folded over to provide a pair of primary panel portions spaced apart throughout their length and integrally connected together along a common upper edge provided with at least one slot therein, said portions extending along the central longitudinal axis of the carton and serving as a pair of first longitudinal partitions, and a plurality of secondary panel portions each hingeably and integrally connected, at one end thereof, to an adjacent primary panel portion and being bent outwardly therefrom to extend at right angles to, and between, the latter and an adjacent side wall of the carton, each said secondary panel portion serving as a transverse partition, and being provided with an end tab hingeably and integrally connected thereto and extending at right angles to its associated secondary panel portion and secured to an adjacent side wall of the carton, said interior assembly also including an extensible handle member cooperating with said unitary member and provided with a hand carrying extension, said handle member being movable between a first retracted position in which said carrying extension lies beneath said top closure and a second operative position in which said extension projects above said top closure, said handle member including an upper part located above and in alignment with said common upper edge, and provided with said hand carrying extension, and a lower part located below said common upper edge and forming a second longitudinal partition, said parts extending along the central longitudinal axis of the carton and being maintained in spaced relation and connected together by an intermediate part capable of movement in said slot; said lower part of the handle member, when the latter is in its said second operative position,

1 contacting the underside of said common upper edge to limit
further outward movement of said handle member; said upper
part of the handle member, when the latter is in its said
second operative position and said top closure is in operative
5 position, contacting the underside of said top closure which
thereby absorbs a portion of the load of the carton when the
latter is carried by said hand carrying extension; said upper
part of the handle member, when the latter is in its said
first retracted position, contacting the said common upper edge
10 to limit the extent of movement of said handle member in its
said first retracted position.

10. A carton according to Claim 9 including
shoulders on said lower part of said handle member co-
operating with the underside of said common upper edge to
15 limit further outward movement of said handle member.

11. A carton according to Claims 9 and 10
including shoulders on said upper part of said handle member
cooperating with the underside of said top closure when the
latter is in operative position.

20 12. A carton according to Claims 9, 10 and 11
wherein the underedge of said upper part of said handle
member cooperates with said common upper edge to limit
movement of said handle member in its first retracted
position.

25 13. An enclosed carton of the type having a wall
structure comprising side and end walls and a bottom, said
carton including a top closure and an interior assembly within
said carton arranged to divide the interior of the latter into a
plurality of adjacent longitudinal rows of article receiving
30 compartments, said interior assembly including a unitary

member formed from a single piece of material folded over to provide a pair of primary panel portions spaced apart throughout their length and integrally connected together along a common upper edge provided with at least one slot therein, said portions extending along the central longitudinal axis of the carton and serving as a pair of first longitudinal partitions, and a plurality of secondary panel portions each hingeably and integrally connected, at one end thereof, to an adjacent primary panel portion and being bent outwardly therefrom to extend at right angles to, and between, the latter and an adjacent side wall of the carton, each said secondary panel portion serving as a transverse partition and being provided with an end tab hingeably and integrally connected thereto and extending at right angles to its associated secondary panel portion and secured to an adjacent side wall of the carton said unitary member having a plurality of score lines arranged at right angles to said common upper edge; a first of said plurality of score lines forming the hingeable connection between a selected end secondary panel portion and its associated end tab, a second of said plurality of score lines at least forming the hingeable connection between a secondary panel portion, adjacent to said selected end secondary panel portion, and its associated primary panel portion, a further score line, intermediate said first and second score lines, forming the hingeable connection between said selected end secondary panel portion and its associated primary panel portion and the hingeable connection between said adjacent secondary panel portion and its associated end tab, said interior assembly also including an extensible handle member cooperating with said unitary member and provided with a hand carrying

1 extension, said handle member being movable between a first
retracted position in which said carrying extension lies beneath
said top closure and a second operative position in which said
extension projects above said top closure, said handle member
5 including an upper part located above and in alignment with
said common upper edge and provided with said hand carrying
extension, and a lower part located below said common upper
edge and forming a second longitudinal partition, said parts
extending along the central longitudinal axis of the carton and
10 being maintained in spaced relation and connected together by
an intermediate part capable of movement in said slot; said
lower part of the handle member, when the latter is in its
said second operative position, contacting the underside of
said common upper edge to limit further outward movement
15 of said handle member; said upper part of the handle member,
when the latter is in its said second operative position and
said top closure is in operative position, contacting the under-
side of said top closure which thereby absorbs a portion of the
load of the carton when the latter is carried by said hand
20 carrying extension; said upper part of the handle member,
when the latter is in its said first retracted position, contacting
the said common upper edge to limit the extent of movement of
said handle member in its said first retracted position.

25 14. A carton according to Claim 13 in which portions
of said intermediate score line are in alignment with one another.

15. A carton according to Claims 13 and 14
including shoulders on said lower part of said handle member
cooperating with the underside of said common upper edge
to limit further outward movement of said handle member.

16. A carton according to Claims 13, 14 and 15 including shoulders on said upper part of said handle member cooperating with the underside of said top closure when the latter is in operative position.

17. A carton according to Claims 13, 14 and 15 including shoulders on said upper part of said handle member cooperating with the underside of said top closure when the latter is in operative position and wherein the underedge of said upper part cooperates with said common upper edge to limit movement of said handle member in its first retracted position.

18. An enclosed carton of the type having a wall structure comprising side and end walls and a bottom, said carton including a top closure and an interior assembly within said carton arranged to divide the interior of the latter into a plurality of adjacent longitudinal rows of article receiving compartments, said interior assembly including a unitary member formed from a single piece of material folded over to provide a pair of primary panel portions spaced apart throughout their length and integrally connected together along a common upper edge provided with at least one slot therein, said portions extending along the central longitudinal axis of the carton and serving as a pair of first longitudinal partitions, and a plurality of secondary panel portions each hingeably and integrally connected at one end thereof, to an adjacent primary panel portion and being bent outwardly therefrom to extend at right angles to, and between, the latter and an adjacent side wall of the carton, each said secondary panel portion serving as a transverse partition and being provided with an end tab hingeably and integrally connected thereto and

1 extending at right angles to its associated secondary panel portion
and secured to an adjacent side wall of the carton, the upper and
lower edges of each of said secondary panel portions being
parallel with one another and extending downwardly from the
5 associated primary panel portion at an oblique angle thereto,
said unitary member having a plurality of score lines arranged
at right angles to said common upper edge, a first of said
plurality of score lines forming the hingeable connection between
a selected end secondary panel portion and its associated end
10 tab, a second of said plurality of score lines at least forming
the hingeable connection between a secondary panel portion,
adjacent to said selected end secondary panel portion, and its
associated primary panel portion, a further score line, inter-
mediate said first and second score lines, forming the hinge-
15 able connection between said selected end secondary panel
portion and its associated primary panel portion and the hinge-
able connection between said adjacent secondary panel portion
and its associated end tab, said interior assembly also including
an extensible handle member cooperating with said unitary
20 member and provided with a hand carrying extension, said
handle member being movable between a first retracted position
in which said carrying extension lies beneath said top closure
and a second operative position in which said extension projects
above said top closure, said handle member including an upper
25 part located above and in alignment with said common upper
edge and provided with said hand carrying extension, and a
lower part located below said common upper edge and forming
a second longitudinal partition, said parts extending along the
central longitudinal axis of the carton and being maintained in
30 spaced relation and connected together by an intermediate part

1 capable of movement in said slot; said lower part of the handle
member, when the latter is in its said second operative position,
contacting the underside of said common upper edge to limit
further outward movement of said handle member; said upper
5 part of the handle member, when the latter is in its said
second operative position and said top closure is in operative
position, contacting the underside of said top closure which
thereby absorbs a portion of the load of the carton when the
latter is carried by said hand carrying extension; said upper
10 part of the handle member, when the latter is in its said first
retracted position, contacting the said common upper edge to
limit the extent of movement of said handle member in its
said first retracted position.

15 19. A carton according to Claim 18 in which
portions of said intermediate score line are in alignment with
one another.

20 20. A carton according to Claims 18 and 19
including shoulders on said lower part of said handle
member cooperating with the underside of said common upper
edge to limit further outward movement of said handle member.

21. A carton according to Claims 18, 19 and 20
including shoulders on said upper part of said handle member
cooperating with the underside of said top closure when the
latter is in operative position.

25 22. A carton according to Claims 18, 19 and 20
including shoulders on said upper part of said handle member
cooperating with the underside of said top closure when the
latter is in operative position and wherein the underedge of
said upper part cooperates with said common upper edge to
30 limit movement of said handle member in its first retracted
position.

1 23. An enclosed carton of the type having a wall
structure comprising side and end walls and a bottom, said
carton including a top closure and an interior assembly within
said carton arranged to divide the interior of the latter into a
5 plurality of adjacent longitudinal rows of article receiving
compartments, said interior assembly including a unitary
member formed from a single piece of material folded over
to provide a pair of primary panel portions spaced apart through-
out their length and integrally connected together along a common
10 upper edge provided with a pair of slots therein, said portions
extending along the central longitudinal axis of the carton and
serving as a pair of first longitudinal partitions, and a plurality
of secondary panel portions each hingeably and integrally con-
nected, at one end thereof, to an adjacent primary panel portion
15 and being bent outwardly therefrom to extend at right angles to,
and between, the latter and an adjacent side wall of the carton,
each said secondary panel portion serving as a transverse
partition and being provided with an end tab hingeably and inte-
grally connected thereto and extending at right angles to its
20 associated secondary panel portion and secured to an adjacent
side wall of the carton, the upper and lower edges of each of
said secondary panel portions being parallel with one another
and extending downwardly from the associated primary panel
portion at an oblique angle thereto, said unitary member
25 having a plurality of score lines arranged at right angles to
said common upper edge, a first of said plurality of score
lines forming the hingeable connection between a selected
end secondary panel portion and its associated end tab, a
second of said plurality of score lines at least forming the
30 hingeable connection between a secondary panel portion,

adjacent to said selected end secondary panel portion, and its associated primary panel portion, a further score line, intermediate said first and second score lines, forming the hingeable connection between said selected end secondary panel portion and its associated primary panel portion and the hingeable connection between said adjacent secondary panel portion and its associated end tab, said interior assembly also including an extensible handle member cooperating with said unitary member and provided with a hand carrying extension, said handle member being movable between a first retracted position in which said carrying extension lies beneath said top closure and a second operative position in which said extension projects above said top closure, said handle member including an upper part located above and in alignment with said common upper edge and provided with said hand carrying extension, and a lower part located below said common upper edge and forming a second longitudinal partition, said parts extending along the central longitudinal axis of the carton and being maintained in spaced relation and connected together by a pair of intermediate parts each capable of movement in a respective one of said slots; said lower part of the handle member, when the latter is in its said second operative position, contacting the underside of said common upper edge to limit further outward movement of said handle member; said upper part of the handle member, when the latter is in its said second operative position and said top closure is in operative position, contacting the underside of said top closure which thereby absorbs a portion of the load of the carton when the latter is carried by said hand carrying extension; said upper part of the handle member, when the latter is in its said first retracted position, contacting the said common upper edge to limit the extent of movement of said handle member in its said first retracted position.

1 24. A carton according to Claim 23 in which portions
of said intermediate score line are in alignment with one another.

5 25. A carton according to Claims 23 and 24 including
shoulders on said lower part of said handle member cooperating
with the underside of said common upper edge to limit further
outward movement of said handle member.

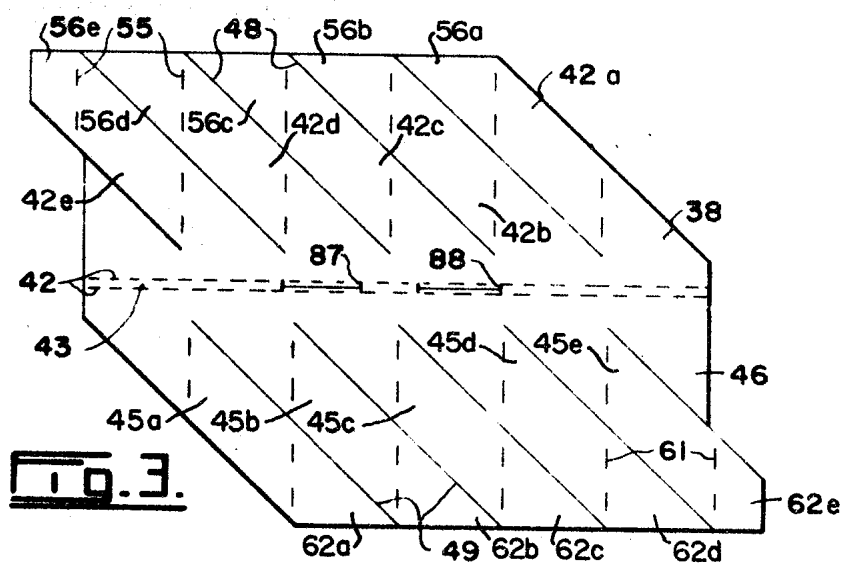
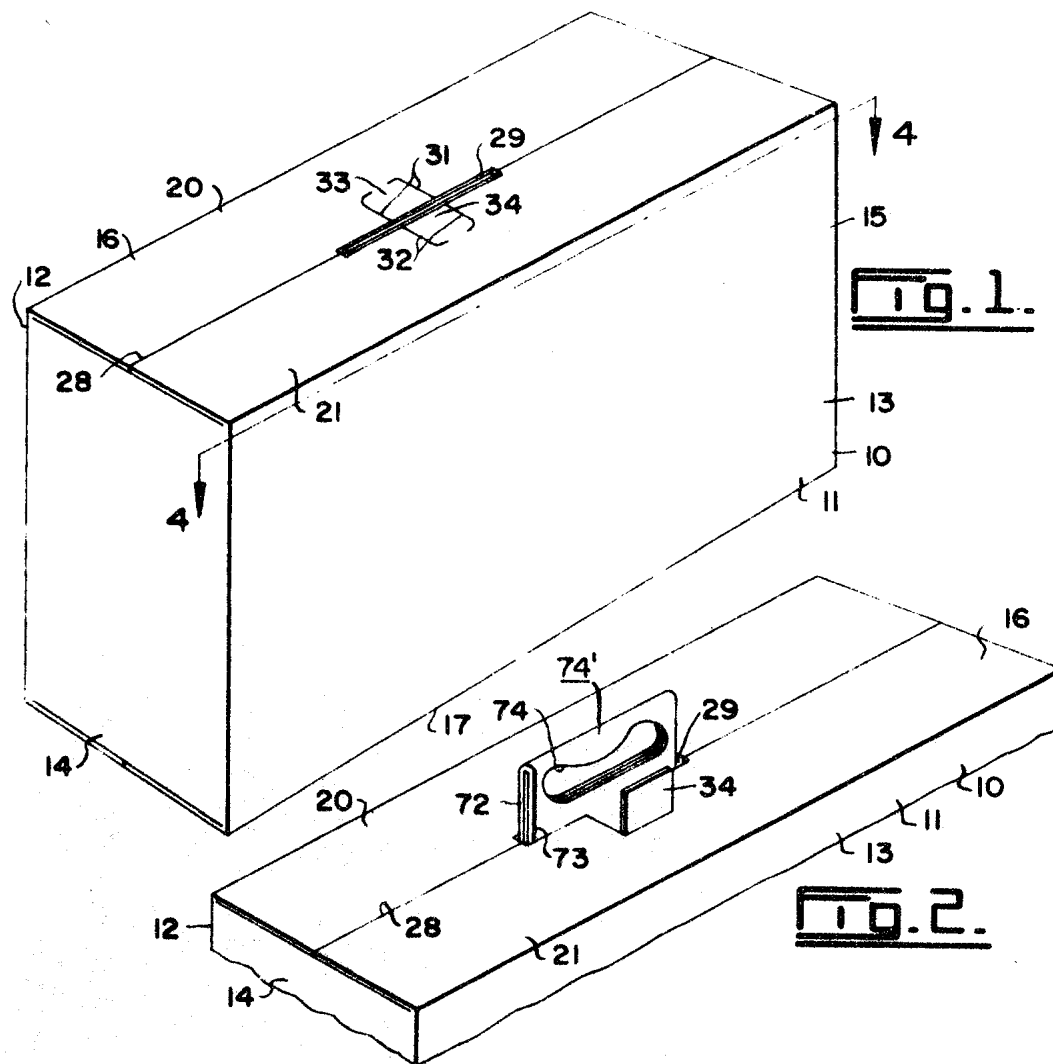
10 26. A carton according to Claims 23, 24 and 25
including shoulders on said upper part of said handle member
cooperating with the underside of said top closure when the
latter is in operative position.

15 27. A carton according to Claims 23, 24 and 25
including shoulders on said upper part of said handle member
cooperating with the underside of said top closure when the
latter is in operative position and wherein the underedge of
said upper part cooperates with said common upper edge to
limit movement of said handle member in its first retracted
position.

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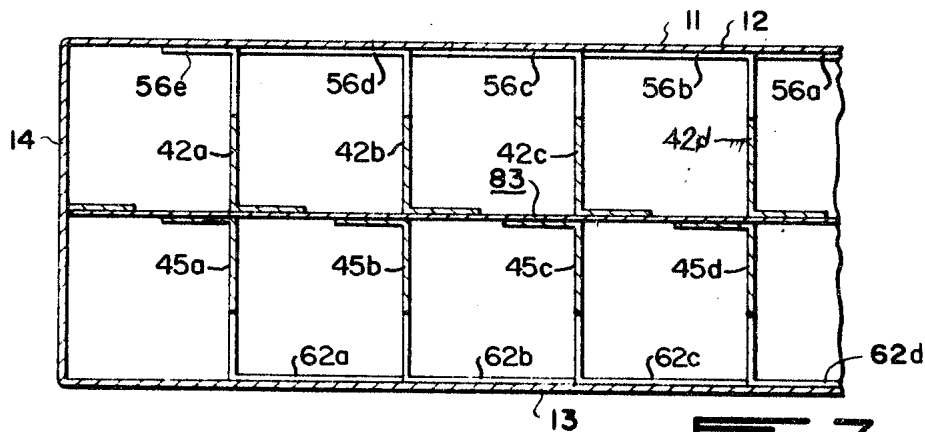


FIG. 7.

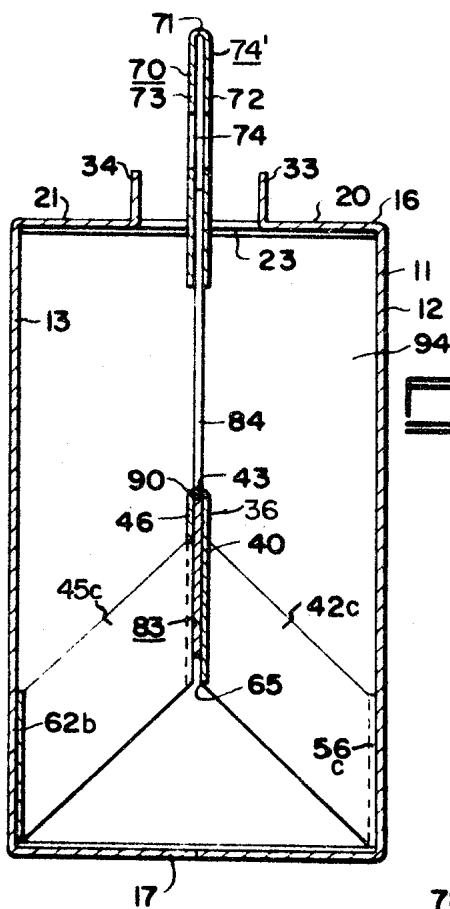


FIG. 8.

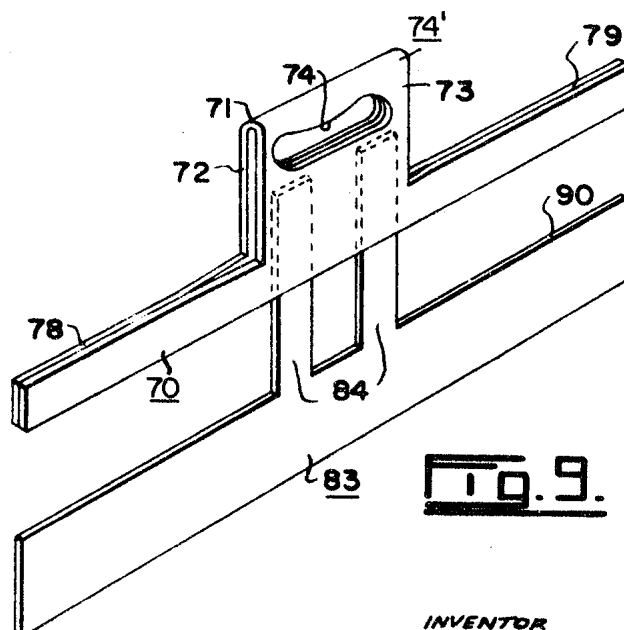


FIG. 9.

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