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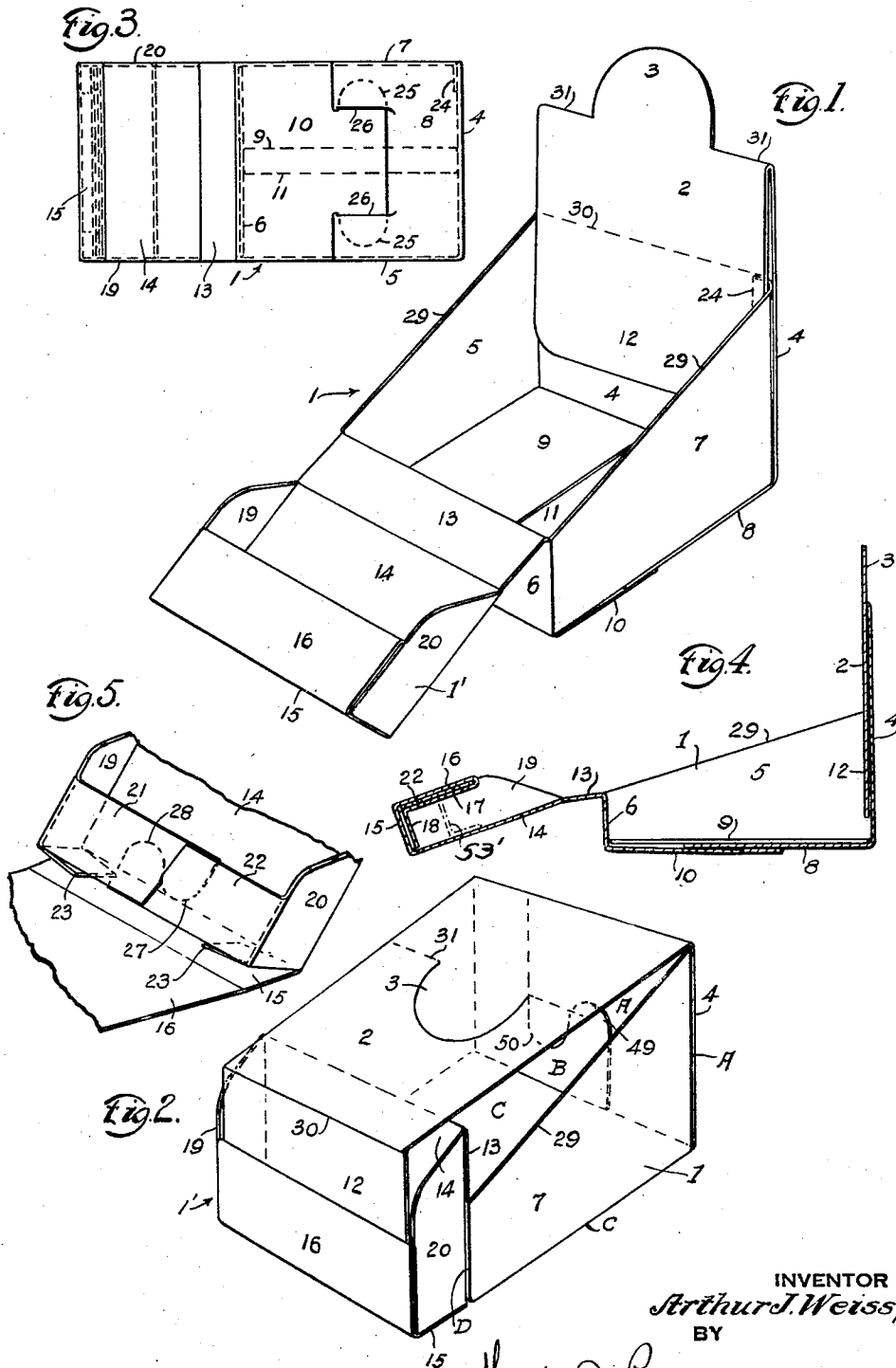
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2,027,079

KNOCKDOWN DUAL DISPLAY CONTAINER

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2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 6.

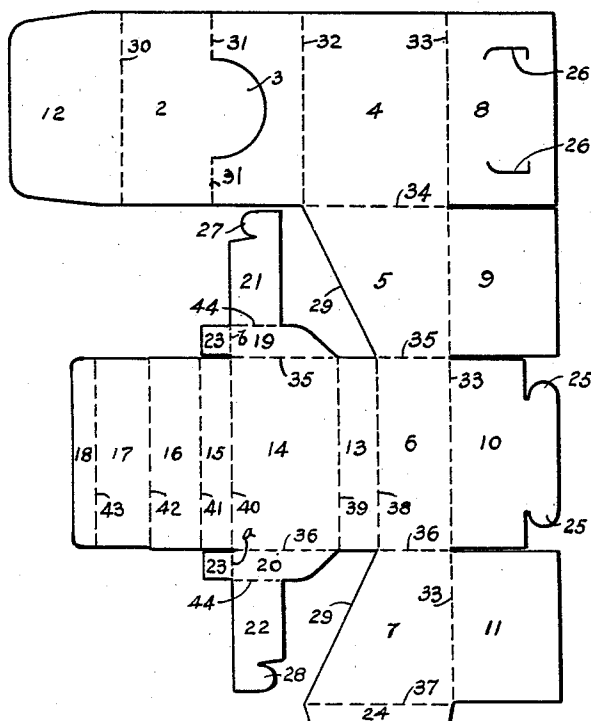
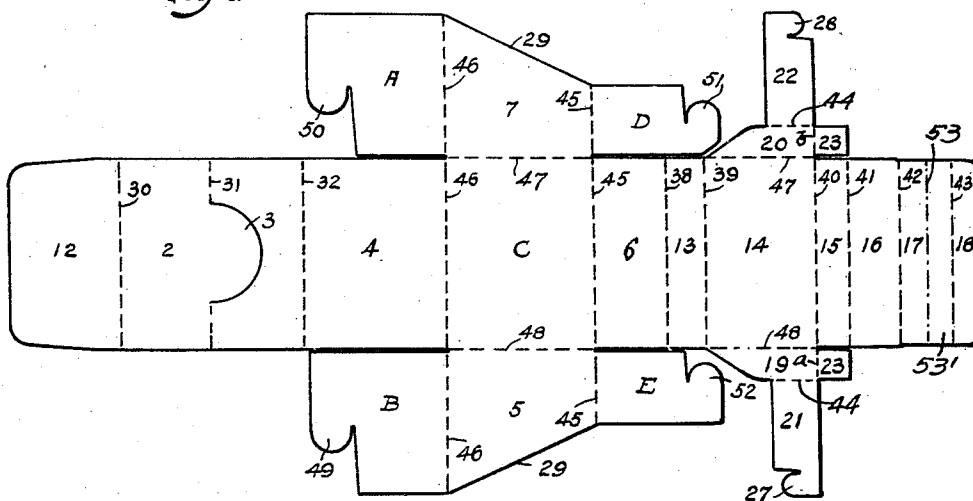


Fig. 7.



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KNOCKDOWN DUAL DISPLAY CONTAINER

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10 Claims. (Cl. 206—44)

The present invention relates to a knockdown display container made of paper-board or the like, which may be collapsed, or shipped flat in bundles to the user.

One of the advantages of the present structure is the construction of a dual display container of this type from a single, flat blank.

Other advantages are in the provision of two compartments from a single blank, one compartment forming a storage compartment for goods held therein, the other compartment forming an attached goods display compartment, which is foldable into the storage compartment, and a common cover for both compartments, when the carton is closed, said cover being cut and scored to permit its erection into an advertising display.

These and other advantages will be apprehended as the herein description proceeds, and it is obvious that modifications may be made in the structure herein, without departing from the spirit thereof or the scope of the appended claims.

In the drawings,

Fig. 1 is a perspective view of one form of my device, set up in goods holding display position;

Fig. 2 is a perspective view of another form of the container in closed position;

Fig. 3 is a reduced bottom view of Fig. 1;

Fig. 4 is a longitudinal sectional view of Fig. 1 taken through the center thereof;

Fig. 5 is a fragmentary view, in perspective, of the display compartment illustrating the manner of folding the same up from the flat blank;

Fig. 6 is a flat blank of one form of my device; and

Fig. 7 is another flat blank of alternate form.

The container as shown in Figs. 1 and 2 may be made up from either blank of Figs. 6 and 7, and while the blanks are geometrically dissimilar, they both, when formed or erected into display, shipping containers are substantially of identical appearance.

Like parts, functioning the same in either blank are given like indices, in the drawings.

The blank of Fig. 6 discloses a blank having a glue flap 24, for glueing to the exposed edge of panel 4, to cause its erection into a carton body as in Fig. 1, while the blank of Fig. 7 discloses a series of lock tab connecting panels A, B, D, and E, having interlockable tabs 50, 49, 51, and 52, respectively, thereon, to permit forming the carton body up by hand, instead of machine, as in Fig. 6.

The blank of Fig. 6, has a series of associate connecting panels 4, 5, 6, and 7, each scored from its adjacent panel by score lines 34, 35, 36, re-

spectively with the glue flap 24 scored from panel 7.

When the glue flap 24 is affixed to the exposed edge of panel 4, as in Fig. 1, these panels form the surrounding walls of the storage portion 1 of the container, which is then completed by closing the bottom forming flap members 8, 9, 10, and 11, these latter members being in alinement with each other, are cut from their adjacent flaps and scored from their associate panels 4 to 7 inclusive by a common score line 33. Flaps 9 and 11 are plain flaps and when inturned form the inner bottom, as in Fig. 1, of the storage compartment. After the inner flaps 9 and 11 are inturned on score line 33, the two lock tab flaps 8 and 10 are inturned, the ears or tabs 25—25, on flap 10, being introduced into lock slits 26—26 in flap 8, and as in Fig. 3, the flaps 8 and 10 thus form the outer bottom and bottom locking means.

The panel 6 has scored therefrom, by a score line 38, a series of panels 13, 14, 15, 16, 17, and 18, each of these panels being respectively scored from its adjacent panel by score lines 39, 40, 41, 42, and 43.

Panel 14, which forms the rear wall of the goods holding display compartment 1', as in Fig. 1, has on its two opposing side edges, a pair of side forming panels 19 and 20, these being defined from panel 14, by score lines 35 and 36.

Side forming panels 19 and 20, have each, at one end thereof, two bottom closing flaps 23—23, the latter being defined from said panels by score lines a and b.

Side forming panels 19 and 20, have each on their opposite, outer edges lock flaps 21 and 22 respectively, said flaps being defined from said panels by score lines 44 and 44. The lock flaps each carry near their outer ends tabs 27—28, whereby, when these flaps and the side forming panels are bent rectangularly, the lock tabs 27—28 are interlocked to form the inner crossing brace, as at 21—22, Fig. 5, for the front wall 16 of the low front wall of the display compartment 1'.

After the lock flaps 21—22 are joined as above described, the two bottom closing flaps 23—23 are bent in on their score lines a and b and panel 15 is bent in, to overlay flaps 23—23, on its score line, 40 as in Fig. 5. Panel 16 is then bent at its score line 41 to lay over the face of the locked flaps 21—22, as in Figs. 1 and 4. This action brings the score line 42 between panels 16 and 17 in alinement with the top edges of the joined lock flaps 21—22, whereupon the panel 17 is pushed down into the display compartment 1', as

in Fig. 4, and panel 18, reversely bent on its score line 43, forms an inner liner for the bottom of the display compartment, or it may be pulled upwardly to form a false bottom as in Fig. 4, shown dotted at 56'.

The main rear wall forming panel 4, has a cover panel, generally denoted by 2, defined therefrom by a score line 32. The cover 2 is partially cut into a contoured display panel 3, at about its middle, the panel 3 being bendable upon itself, as in Fig. 1, at the score lines 31—31, and by means of the tuck flap 12, defined by score line 30 from cover panel 2, is tucked back against rear panel 4, tuck flap 12 being slipped in behind the goods, not shown, in the storage compartment 1.

When the container is thus erected, the display compartment may first be loaded with the desired goods, and then infolded, into the storage compartment, on its score lines 38 and 39, so that the outer front wall 16 of the display compartment rests face down upon the inner bottom forming panels 9 and 11, with the exposed face of panel 13, and the front edge of the panel 14 at the score line 39 resting against the inside face of panel 6. Then the storage compartment may be completely filled with goods and the cover 2 and its tuck flap closed over the filled container, and the package put into a shipping case.

In an alternate form of packing the container after erection, the display container, as in Fig. 2, may be left outside of the storage container 1, by being placed upright with its back wall 14 in contact with the front of panel 6 as at D, Fig. 2, both containers being then filled with goods and the cover 2 and tuck flap 12, then overfolded on the goods, with tuck flap 12, tucked inside of wall 16 of the display container 1'.

The manner of erecting the blank of Fig. 7 to form a container, similar to that described for Fig. 6, will now be disclosed. It is understood that the features and functions above described for the container of Fig. 6, as erected also apply to the container erected from blank of Fig. 7, which is wholly assembled by hand, from the flat whereas, blank of Fig. 6 may be glued in a machine, and while flat, is folded once on score lines 34 and 36 in a collapsed, space saving condition.

In Fig. 7 a large number of the panels, flaps, tabs and score lines are similar to those disclosed in Fig. 6, both in structure and function, though they are somewhat differently arranged.

The storage body forming panels of Fig. 7 comprise panels 4, 5, 6, and 7 and lock tab panels A, B, C, D, and E.

Panel C forms the bottom of the storage compartment 1 and the side wall forming panels 5 and 7 are defined therefrom by score lines 47—48. The panels 5 and 7, in both blanks are cut with triangular edges 29—29, and which, as shown in the main figures, give a sloping effect to the container in open display.

Panels 5 and 7 have each lock tab panels B and A respectively, said latter panels being defined from the former by score lines 46—46. The edges of panels 5 and 7, opposite panels B and A have front forming tab locking flaps E and D respectively, these being defined from panels 5 and 7 by score lines 45—45. The panels B, A, D and E each have, on their outer ends interlocking tabs 49, 50, 51, and 52, respectively.

The bottom forming panel C has connected thereto a back, outer wall forming panel 4 defined therefrom by a score line 46, and in turn the cover panel 2 is defined therefrom by score

lines 32 and, in turn the cover tuck flap 12 is defined from the cover panel 2, by a score line 30. The cover panel 2 is cut out and scored at its mid-portion as described for Fig. 6.

Bottom forming panel C has defined therefrom by score line 45 a display compartment front wall forming panel 6, defined therefrom by score line 45, and the remaining scored panels 13 to 18 inclusive and 19 to 23 inclusive are as described for Fig. 6, to form the display compartment 1'. One added panel 53' Fig. 7, scored from and between panels 17—18 by score lines 43 and 53 is not shown in blank Fig. 6. The function of this added panel as shown dotted as a pull up 53', Fig. 4, has been described as a false bottom.

In erecting the blank of Fig. 7 into a display container, triangular panels 5—7 are bent up on scorelines 47—48, then the back wall forming panels A—B are bent towards each other on common score line 46 and the lock tabs 49—50 interlocked as shown dotted, Fig. 2. The front wall forming panels D and E are then bent on the common score line 45 to each other, and interlocked at their ends by the lock tabs 51—52. At this stage the main storage compartment 1 has been formed. Then the display compartment is erected by bending side panels 19—20 upwardly on their score lines 47—48, forming side panels as in Figs. 1, 4, 5, and 6, and then the front forming tab lock panels 21—22 are bent on their score lines 44—44 toward each other and their ends interlocked by lock tabs 27—28, as shown in Fig. 5.

The end flaps 23—23 are then bent inwardly on their score lines *a—b*, and as in Fig. 5, bottom forming panel 15 is bent up on its score line 40, to overlay the flaps 23—23, front forming panel 16 is then bent on its score line 41, on to the front face of tab locks 21—22, Fig. 4, which brings the score line 42 even with the top edges of lock panels 21—22 and the panels 17, 53', and 18 are then pushed down into the display compartment 1', as indicated in full and dotted lines in Fig. 4. As described, this leaves the display compartment connected to the top front edge of panel 6 by score lines 38 and 45, thus permitting the display compartment to be disposed in any desired arrangement, as shown and described, relative to the storage compartment.

The cover panel 2 and tuck 12 of Fig. 7, are then bent up on score line 46 of back wall forming panel 4, so that this latter panel lies against rear wall forming lock panels A and B, as at D Fig. 2, and the cover and tuck panels are arranged in covering position as described for Fig. 7.

It will be seen from the foregoing description that both containers as erected from either blank, Fig. 6 or Fig. 7, form substantially identical containers, and in erected assembly provide similar opportunities for the holding and displaying of goods, and arrangement of component parts.

In setting up the containers for goods display, the display compartment may be arranged at an angle as in Fig. 1, or it may be arranged to stand vertically as in Fig. 2, for display, or the display compartment may be overfolded into the storage compartment 1, to provide a stepped display container.

Having thus described the invention what is claimed is:

1. A display box made from one sheet of paper-board comprising a main container having a rear wall and a relatively low front wall, said container having an open top; a relatively movable container having a high rear wall and a rela-

tively low front wall, said latter container also having an open top; a hinge panel connecting the low wall of said main container and said high wall, said panel being vertically disposed so that the two last mentioned walls may be engaged to render the open tops continuous, and a cover panel continuous with the first mentioned rear wall and extensible over both of the open tops.

2. A box made from one sheet of material comprising a main container having a rear wall and a relatively low front wall, said container having an open top; a relatively movable display container having a high rear wall and a relatively low front wall, said latter container also having an open top; a hinge panel connecting the low wall of said main container and said high wall, said panel being vertically disposed so that the two last mentioned walls may engage to render the open tops continuous, a cover panel continuous with the first mentioned rear wall whereby to cover both of the open tops, and a flap extending from the front of the cover panel and engageable against the front wall of the display container in closing relation therewith.

3. A counter display box made from one sheet of paperboard comprising a main container including side walls having downwardly and forwardly inclined top edges; a second container having side walls with inclined top edges which are practically aligned with the first edges; said respective containers including rear and front walls, the top portion of the front wall of the main container being relatively high, and the tops of the other members of said front and rear walls being disposed on planes which are below the horizontal plane of said portion, and an inclined panel connecting the top of the front wall of the first container with the top of the rear wall of the second container.

4. A box made from one sheet of material comprising a storage container having a front wall; a hinge panel extending from said wall; and a display container carried by said panel and swingable into the storage container; said display container including a front wall and having a bottom continuous therewith, a rear wall connecting the bottom and said panel, end panels continuous with said rear wall, and lock flaps extending from said end panels and having mutually embracing ends engaged against the last mentioned front wall.

5. A box made from one sheet of paperboard comprising a storage container having a bottom and front and rear walls; a hinge panel extending from said front wall; and a relatively small display container carried by said panel and swingable into the storage container; said display container including a front wall and having a bottom continuous therewith, a rear wall connecting said bottom and said panel, end panels continuous with said rear wall, said last mentioned front wall being engageable against the first mentioned bottom in the stored position of the display container, said second mentioned rear wall being then uppermost, and there being a storage space between the bottom of the display container and the rear wall of the first container; and a flap continuous with the first mentioned rear wall and bendable downwardly onto the rear wall of said display container, whereby to cover said storage space.

6. A box made from one sheet of material comprising a storage container having a bot-

tom and front and rear walls; a hinge panel extending from said front wall; a relatively small display container carried by said panel and swingable into the storage container; said display container including a front wall and having a bottom continuous therewith, a rear wall connecting said bottom and said panel, end panels continuous with said rear wall, lock flaps extending from said end panels and having mutually embracing ends engaging the second mentioned front wall, said flaps and the associated front wall being engageable against the first mentioned bottom in the stored position of the display container, said second mentioned rear wall being then uppermost, and there being a storage space between the bottom of the display container and the rear wall of the first container; and a flap continuous with the first mentioned rear wall and bendable downwardly to the rear wall of said display container, whereby to cover said storage space.

7. A box made from one sheet of material and comprising a storage container having a front wall; a hinge panel extending from said wall; and a display container carried by said panel and swingable into the storage container; said display container including a bottom, a rear wall connecting said bottom and said panel, end panels continuous with said rear wall, lock flaps extending from said end panels and having mutually engaging front ends; a front wall continuous with said bottom and engaging the outer faces of said lock flaps, and another panel extending from the last mentioned front wall and engaging the inner faces of said flaps.

8. The herein described box comprising a sheet of material which forms a storage container having a hinge panel extending therefrom; a relatively small container carried by said panel and swingable into the storage container; said second container including front and rear walls, an interposed bottom and a false bottom.

9. A box made from one sheet of paperboard comprising a storage container having a front wall; a hinge panel extending from said wall; and a relatively small container carried by said panel and swingable into the storage container; said small container including a bottom, a rear wall connecting said bottom and said panel, end panels continuous with said rear wall, lock flaps extending from said end panels and having mutually clasp front ends; a front wall continuous with said bottom and engaging the outer faces of said lock flaps; sub-panels engaging the respective inner faces of said lock flaps and said rear wall, one of said sub-panels being continuous with the last mentioned front wall, and another panel disposed between said sub-panels and spaced from said bottom, whereby to provide a compartment, as described.

10. A box made from one sheet of paperboard comprising a main storage container including front and rear walls and having a substantially flat bottom and an open top; a second display container outside of said storage container and including also a flat bottom and having an open top, said second container having a rear wall hingedly engaging said front wall, and a cover continuous with the first mentioned rear wall and extensible to cover both open tops of said containers.

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