May 21, 1963 E. L. ARNESON 3,090,540

HINGED COVER CARTON

Filed Dec. 23, 1957 3 Sheets-Sheet 1

Fig-1

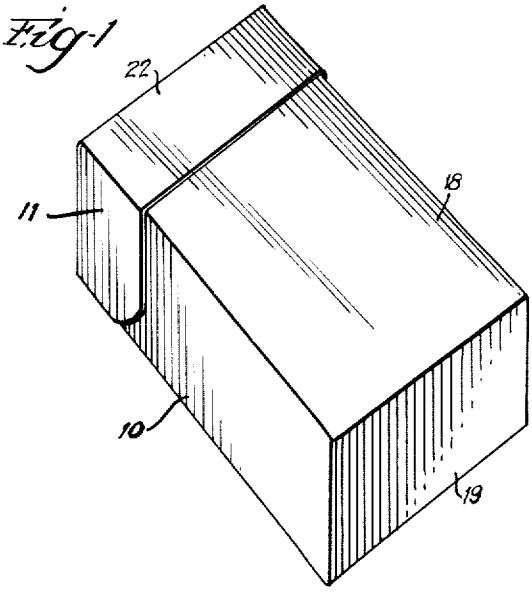


Fig-2

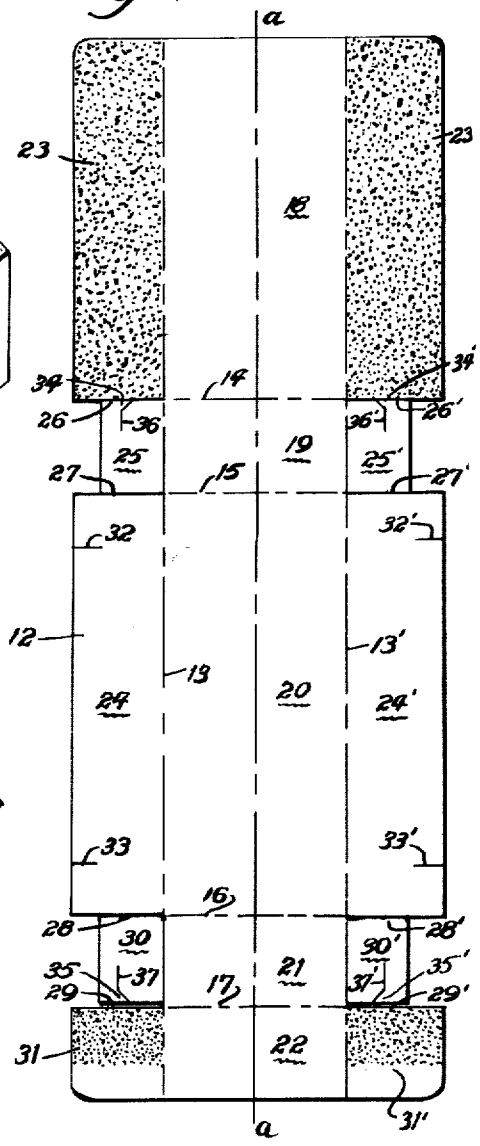
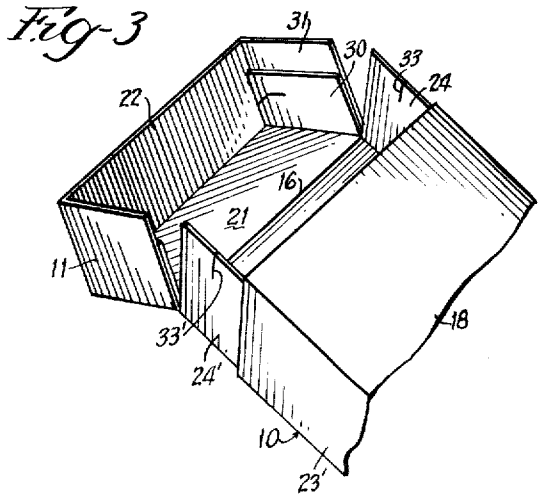


Fig-3



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May 21, 1963 E. L. ARNESON 3,090,540

HINGED COVER CARTON

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Fig-5

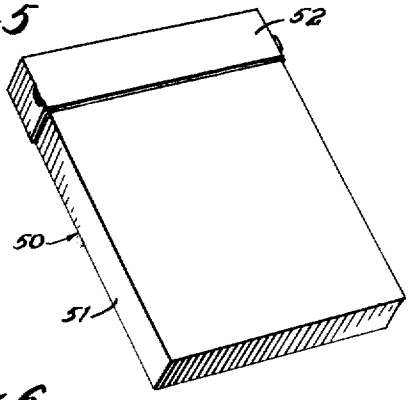


Fig-7

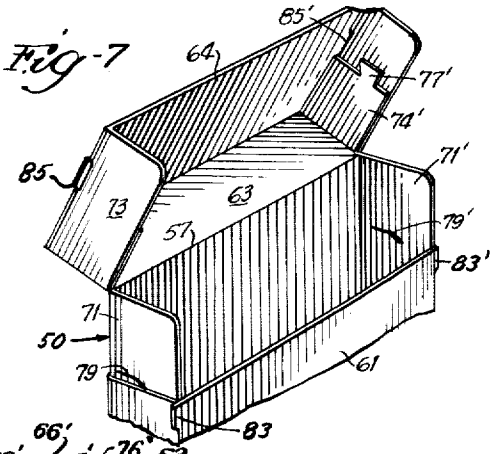


Fig-6

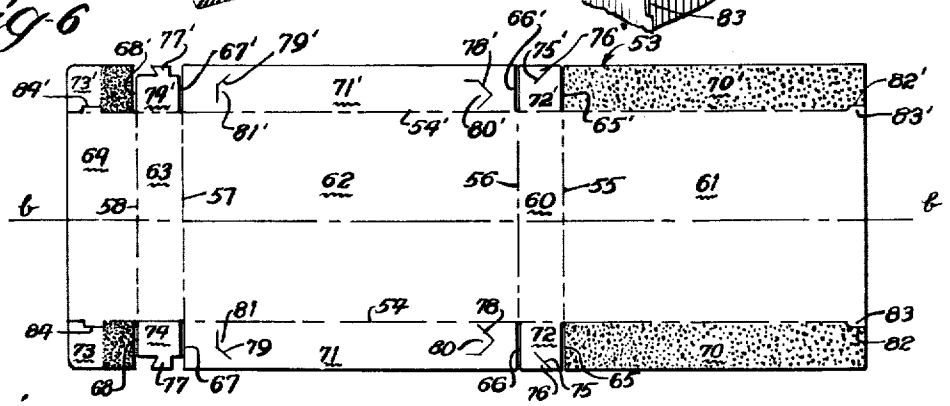


Fig-8

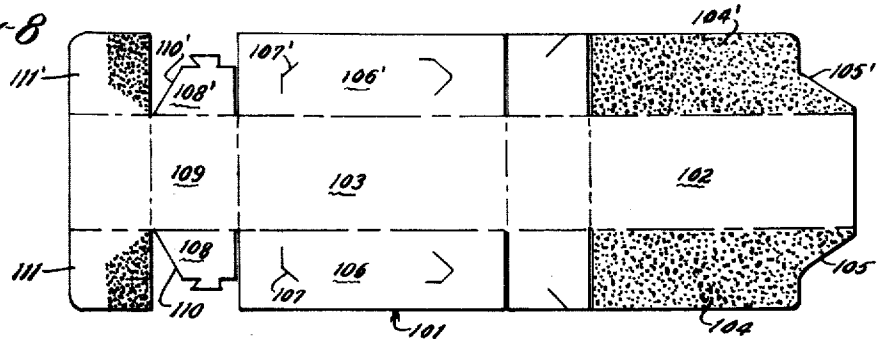
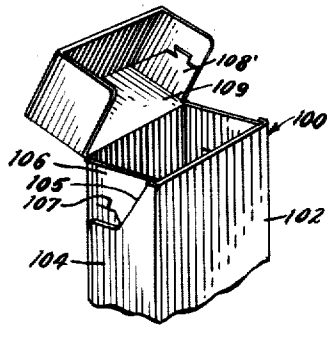


Fig-9



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May 21, 1963 E. L. ARNESON 3,090,540

HINGED COVER CARTON

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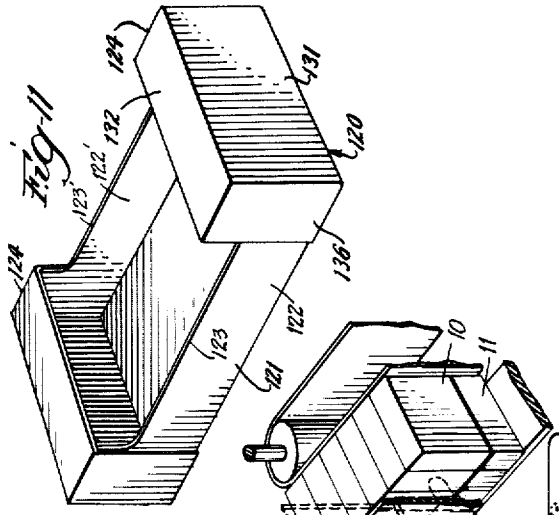


Fig-11

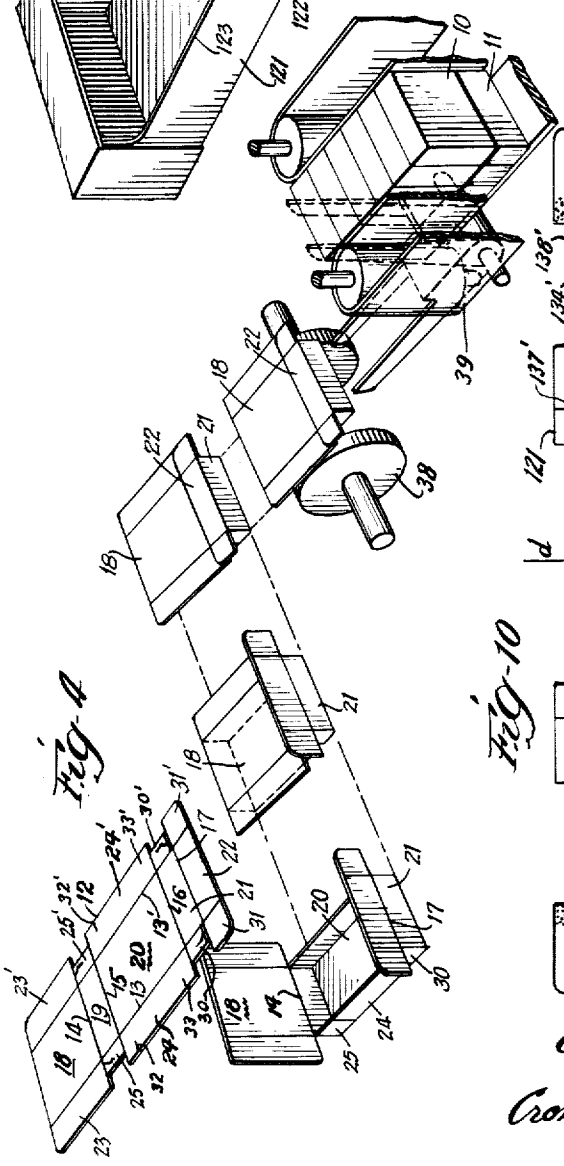


Fig-4

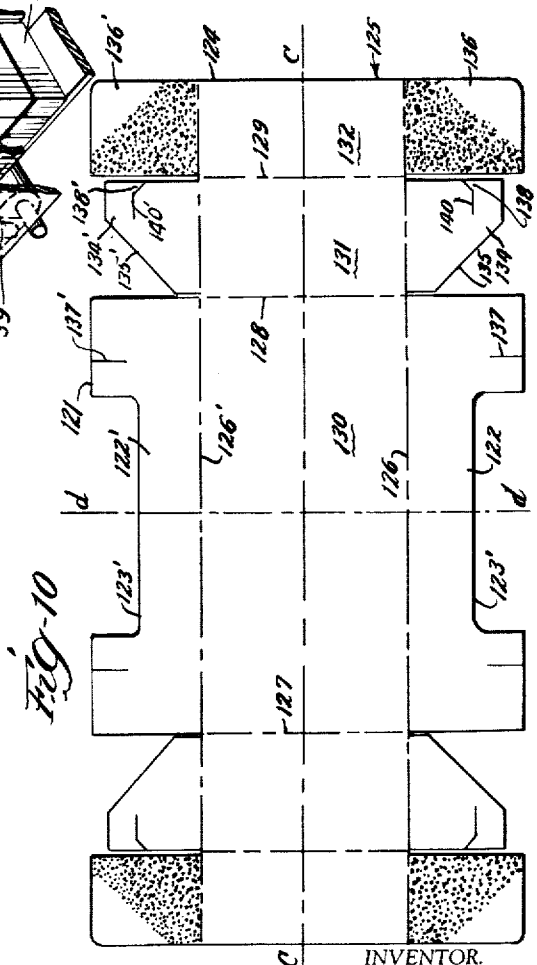


Fig-10

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United States Patent Office 3,090,540 Patented May 21, 1963

3,090,540

HINGED COVER CARTON

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Filed Dec. 23, 1957, Ser. No. 704,608
9 Claims. (Cl. 229—44)

This invention relates to packaging and is more particularly concerned with improvements in the manufacture of containers which are formed from flexible paperboard material and which are adapted to be employed in the packaging of a variety of merchandise.

It is a general object of the invention to provide a neat and attractive packaging container and a method of forming the same from a blank of flexible paperboard or similar material which is cut and creased to divide the blank into a series of connected wall forming panels providing, when erected, a back wall and a front wall which are joined at the margins to end and side walls with the latter being held in connected relation at the corners by corner forming flap members having locking tongues which are engaged in cooperating locking slits in the side wall members.

It is a more specific object of the invention to provide a carton formed from a single blank of paperboard or similar flexible sheet material which is cut and creased to provide a series of hingedly connected wall forming panels having integral marginal portions forming flaps adapted to be overlapped into side wall forming relation with certain of the flaps being provided with cooperating edge-to-edge locking formations which are initially engaged when the carton is set up to hold the flaps in overlapping connected relation and with other flaps adapted to be secured in covering relation thereto.

It is a further object of the invention to provide a carton having a hinged cover section at one end thereof wherein the carton is formed from a generally rectangular blank with the blank being divided by longitudinal and transversely extending cutting and scoring lines into a connected series of wall forming panels adapted to provide front and back walls extending from opposite edges of a bottom or end wall, a cover forming end wall hinged to the free end of the back wall and side wall forming flaps hinged along the lateral edges of the bottom, back, front and cover forming walls with cooperating locking tongues and slits in adjoining flaps which are adapted to be engaged in locking relation when the side wall forming flaps are initially hinged into side wall forming position at right angles to the back wall, and with the side wall flaps which are hinged to the front wall being adhesively secured in overlapping relation with the side wall forming flaps which are hinged to the back wall so that the side wall forming flaps may be separated by disengaging the locking tongues at one end of the carton to provide a hinged cover section.

It is another object of the invention to provide a paperboard carton having an initially locked hinged cover section which is adapted to be forced open to provide access to the contents of the carton without destroying the effectiveness of the carton.

It is still another object of the invention to provide a method of forming a paperboard container of the type described which is adapted to be fabricated from a single blank of cut and creased paperboard stock with the blank

being folded to form the container on conventional straight line gluing and folding equipment which is readily available commercially.

These and other objects and advantages of the invention will be apparent from a consideration of the several forms of the container and the method of fabricating the same which are shown by way of illustration in the accompanying drawings wherein:

FIGURE 1 is a perspective view of a paperboard carton in completely erected and closed condition which embodies therein the principal features of the invention;

FIGURE 2 is a plan view of a paperboard blank which is cut and scored to form the carton of FIGURE 1;

FIGURE 3 is a perspective view of the top of the carton of FIGURE 1 with the cover section in open position;

FIGURE 4 is a perspective view illustrating schematically the method of forming the blank of FIGURE 2 into the carton shown in FIGURE 1;

FIGURE 5 is a perspective view of a modified form of carton in completely erected and closed condition;

FIGURE 6 is a plan view of a blank which is cut and scored to form the carton of FIGURE 5;

FIGURE 7 is a perspective view of the top portion of the carton of FIGURE 5 with the top cover section in open position;

FIGURE 8 is a plan view of a blank which is cut and scored to form a further modification of the carton;

FIGURE 9 is a perspective view of the top portion of the carton formed from the blank of FIGURE 8 with the top cover section in open position;

FIGURE 10 is a plan view of a blank which is cut and scored to form a further modification of the carton; and

FIGURE 11 is a perspective view of a carton formed from the blank of FIGURE 10, in completely closed condition.

Referring first to the form of the carton which is illustrated in FIGURES 1 to 3, it comprises a body portion **10** and a hingedly connected reclosable cover section **11**. The carton, when closed, is of rectangular cross section and both the body **10** and the cover **11** are initially formed from a generally rectangular paperboard blank **12** which is cut and scored as shown in FIGURE 2.

The blank **12**, when cut and scored to provide the desired wall forming panels, is symmetrical about a longitudinal center *a—a* and in describing the blank, the elements on one side which correspond to like elements on the other side of the blank will be indicated by the same numeral primed. The blank **12** is divided in the transverse direction by longitudinally extending transversely spaced parallel score lines **13**, **13'** into a central panel forming section and marginal side flap forming sections. It is divided in the longitudinal direction by transversely extending longitudinally spaced parallel score lines **14**, **15**, **16** and **17** which cooperate with the longitudinal score lines **13**, **13'** to divide the center section of the blank into a front wall forming panel **18**, a bottom wall forming panel **19**, a back wall forming panel **20**, a top wall forming panel **21**, and a front cover panel **22**, all of which are hingedly connected in the order named on the transverse score lines **14** to **17** inclusive.

The material in the side margins of the blank is cut through on extensions of the transverse score lines to divide the same into side wall forming panels or flaps and corner connecting flaps or tabs. The side wall forming panels **23**, **23'** and **24**, **24'** which extend laterally of

the front wall forming panel **18** and the back wall forming panel **20** are separated from the bottom corner connecting flaps or tabs **25, 25'** which extend laterally of the bottom wall forming panel **19** by the cutting lines **26, 26'** and **27, 27'**, which cutting lines are in alignment with the score lines **14** and **15**, respectively. The side wall forming panels **24, 24'** are separated from the remaining side marginal portions of the blank by cutting lines **28** and **28'** which are in lateral alignment with the transverse score line **16** and with the latter divide the blank **12** into the two sections which form the body **10** and cover **11** of the erected carton. The side marginal portions of the cover forming section of the blank are divided by cutting lines **29, 29'** which are in lateral alignment with the transverse score line **17** to form top corner connecting flaps or tabs **30, 30'** which extend laterally of the top wall forming panel **21** and the side wall panels or flaps **31, 31'** on the front panel **22** of the cover forming section of the blank. In the erected condition of the carton the panels or flaps formed in the side marginal portions of the blank are folded about the hinge forming score lines **13** and **13'** which define the side edges of the center panels constituting the main body and cover forming portions of the blank into right angle relation with the respective main panels from which they extend and are secured in side wall forming relation. The side wall forming panels or flaps **24, 24'** are provided with relatively short tranverse locking slits **32, 32'** and **33, 33'** which extend inwardly of the side edges of the blank **12** and which are spaced inwardly from the opposite ends of these panels in the longitudinal direction of the blank. The bottom and top corner connecting flaps **25, 25'** and **30, 30'** are provided with cooperating locking tongues **34, 34'** and **35, 35'** which are formed by longitudinally extending slits **36, 36'** and **37, 37'**, the latter extending inwardly in the longitudinal direction of the blank into the body of each flap from the cutting lines **26, 26'** and **29, 29'**. The locking slits **36, 36'** and **37, 37'** each have an angled outer portion which extends toward the longitudinal center line *a—a* of the blank so as to form adjacent the edges of the flaps the triangular locking tongues **34, 34'** and **35, 35'**, all of which are identical and all of which face in the direction of the center line *a—a* so that when the side wall panels **24, 24'** are folded into upstanding relation to the back wall panels **20**, the corner flaps **25, 25'** and **30, 30'** may be folded so as to position the locking tongues **34, 34'** and **35, 35'** in interengaging relation in the slits **32, 32'** and **33, 33'**.

Referring to FIGURE 4, the preferred method of erecting the carton is illustrated. The cut and scored blank **12** is first set up in the form of a tray by moving the blank in a vertical direction downwardly through a set up device (not shown) which folds the end portions of the blank upwardly about the score lines **15** and **16** at opposite ends of the back wall forming panel **20** to bring these portions into upstanding right angle relation to the panel **20** and in like manner folds the side wall forming panels **24, 24'** into upstanding relation about the score lines **13, 13'**. The corner forming flaps **25, 25'** and **30, 30'** are then folded inwardly about the score lines **13, 13'** into engagement with the outer faces of the side wall forming panels **24, 24'** and the locking tongues **34, 34'** and **35, 35'** are engaged in the locking slits **32, 32'** and **33, 33'** in the side wall forming panels **24, 24'** so that the blank is converted into a tray-like receptacle with the front and cover forming portions of the blank upstanding at opposite ends thereof.

When the blank has been initially set up in the form of an open top tray, the contents may be placed therein and the remaining portions of the blank closed over the contents by moving the assembly through straight line gluing and folding mechanism of conventional design. The assembly is moved in a lateral direction to fold down the upstanding front wall forming portions thereof about the score lines **14** and **17**, bringing the front wall panel **18** first into horizontal covering relation over the contents and then bringing the front cover panel **22** into horizontal position with its free edge overlapping relation with the free edge of the front wall panel **18**. The direction of travel of the assembly is then preferably changed so that the movement is in the direction of the longitudinal axis of the carton. An adhesive is applied by applicator rollers **38** (FIGURE 4) to the underside or bottom face of both side wall forming panels **23, 23'** and to the exposed portion of both cover side wall forming flaps **31, 31'** as indicated by stippling in FIGURE 2, the adhesive being applied on each of the side wall forming flaps **31, 31'** only in the area which, when folded down, will overlap the corner connecting flaps **30, 30'**. After the application of the adhesive panels **23, 23'** and flaps **31, 31'** are folded down against the previously folded side wall forming panels and flaps with the panels **23, 23'** being adhered to the outer faces of the panels **24, 24'** and the corner connecting flaps **25, 25'** and with the cover side wall flaps **31, 31'** being adhered to the corner connecting flaps **30, 30'** only. Finally, the filled and closed carton is delivered to a suitable press **39** (FIGURE 4) to hold the panels in position until the adhesive has set.

The filled and closed carton as delivered from the set up machine completely encloses and protects the contents with the cover **11** locked in closed position by the interengagement of the locking tongues **35, 35'** on the corner connecting flaps **30, 30'** with the locking slits **33, 33'** in the inner side wall forming panels **24, 24'**. To open the carton all that is required is to swing the cover **11** about the hinge **16** with sufficient force to disengage the locking tongues **35, 35'** from the locking slits **33, 33'**. The forcing of the locking tongues out of engagement in the locking slits destroys the lock but it does not otherwise affect the carton so that the cover may be flipped open and is then in condition for reclosing, if desired, to protect any of the contents which may not be removed from the carton.

A modified form of the invention is illustrated in FIGURES 5 to 7 of the drawings wherein the carton **50**, which is provided for packaging the article or articles, includes a body portion **51** and a hinged cover **52**. The cover **52** is in closed and locked condition when the carton is initially formed and is constructed so that it may be opened by applying sufficient force to rupture the locking connection as in the previously described form but in this form provision is made for relatching the cover when it is reclosed.

The carton **50** is formed from a blank **53** (FIGURE 6) which is cut and scored to provide the necessary wall forming panels. The blank **53** is symmetrical about the longitudinal center line *b—b* and the elements of the blank on one side of the center line will be referred to by the same numerals primed as applied to the corresponding elements on the other side. The blank **53** is divided into a longitudinally extending center section and side marginal sections by a pair of parallel, transversely spaced, longitudinally extending score lines **54, 54'**. The center section of the blank is divided longitudinally by parallel longitudinally spaced transversely extending score lines **55, 56, 57** and **58**, with the score line **57** serving to divide the blank into two sections which form the body and cover and providing a hinge connection between the same. The transverse score lines **55, 56** and **57** define with the longitudinal score lines **54, 54'**, a bottom wall forming panel **60** and front and back wall forming panels **61** and **62**, the latter extending from opposite sides of the bottom wall forming panel **60** and being integrally hinged thereto on the score lines **56** and **55**. The score lines **57** and **58** define with the longitudinal score lines **54, 54'** a top cover forming panel **63** and a cover front wall panel **64**, the latter constituting the end panel of the blank.

The side marginal portions of the blank extending from the crease lines **54, 54'** to the side edges of the blank are divided by cutting on the lines **65, 65'**; **66, 66'**; **67, 67'**;

and 68, 68' which are in paired alignment transversely of the blank with the score lines 55, 56, 57 and 58. The cutting lines 65, 65'; 66, 66'; and 67, 67' divide the side margins of the blank into outer side wall forming panels 70, 70' which are hinged on the score lines 54, 54' to the front wall forming panel 66 and inner side wall forming panels 71, 71' which are hinged on the score lines 54, 54' to the back wall panel 62, and intervening bottom corner connecting flaps 72, 72' which are hinged to the opposite ends of the bottom wall forming panel 60. The cutting lines 67, 67' and 68, 68' divide the remainder of the marginal sections of the blank into cover side wall forming panels 73, 73' and top corner connecting flaps 74, 74', the former being hinged to the cover front wall panel 64 on the score lines 54, 54' and the latter being hinged to the top cover forming panel 63 on the same score lines.

The bottom corner connecting flaps 72, 72' are provided with slits 75, 75' extending diagonally inwardly of the outer edges thereof which form triangular shaped locking tongues 76, 76' in the outer edges thereof. The top corner connecting flaps 74, 74' have their outer edge portions cut away to provide locking tongues 77, 77' thereon. The inner side wall forming panels 71, 71' which extend from the back wall forming panel 62 are provided with locking slits 78, 78' and 79, 79' for cooperation with the locking tongues 76, 76' and 77, 77'. The slits 78, 78' each comprise two angularly related or diagonal portions which intersect to form a V with the vertex extending towards the adjacent bottom corner connecting flap 72 or 72' and with the outermost portion terminating at a relatively short longitudinally extending cutting line and providing tongue-like portions 80, 80', each of which may be forced inwardly out of the plane of the respective panel to receive the trangular locking tongue on the adjacent corner connecting flap 72 or 72' for edge interlocking engagement therewith. The locking slits 79, 79' each comprise two angularly related portions which intersect to form a V with the apex extending toward the adjacent top corner connecting flap 74 or 74', the inner portion of the slit extending transversely of the blank and the outer portion extending in diagonal relation thereto so as to form tongue-like sections 81, 81' which may be pressed inwardly out of the plane of the respective panels to receive the locking tongues 77, 77' when the panels are folded into side wall forming relation and the connecting flaps 74, 74' are folded against the outer face of the same.

The outer side wall forming panels 70, 70' are provided with L-shaped slits 82, 82' at the ends of the longitudinal score lines 54, 54' which provide laterally projecting latching tongues 83, 83' on the side edges of the front wall forming panel adjacent the upper edge thereof and the cover side wall forming panels 73, 73' are provided with slits 84, 84' adjacent the ends of the crease lines 54, 54' which provide latching slots 85, 85' (FIGURE 7) therein for receiving the latching tongues 83, 83' when the carton is set up and which are operative for latching the cover in closed position after it is initially opened.

The carton 50 is set up, filed and closed in the same manner as illustrated in FIGURE 4. The blank 53 is first folded on the crease lines 54, 54', 56 and 57 to bring into upstanding relation with the back wall forming panel 62 the side wall forming panels 71, 71', the bottom and top wall forming panels 60 and 63, and the corner connecting flaps 72, 72' and 74, 74', with the locking tongues 76, 76' and 77, 77' being moved into interlocking engagement in the slits 78, 78' and 79, 79' in the side wall forming panels 71, 71'. The tray thus formed is then filled with the merchandise to be packaged and the remaining panels are folded down into position over the tray section, the outer side wall forming panels 70, 70' and 73, 73' being provided with adhesive as indicated by the stippling in FIGURE 6 so that the side wall forming panels 70, 70' adhere to the outer faces of the inner side wall forming panels 71, 71' and the bottom corner connecting flaps 72, 72' and the cover side wall forming panels 73, 73' adhere to the top corner connecting flaps 74, 74'. The final folding operations insert the latching tongues 83, 83' on the front wall of the body section in the cooperating slots 85, 85' in the side walls of the cover section so that the cover 52 is initially locked in position by engagement of the locking tongues 77, 77' with the edges formed by the slits 79, 79' in the side wall forming panels 71, 71' and also by the latching tongues 83, 83' engaging in the slots 85, 85'. The cover 52 may be opened without tearing by pulling on the cover front wall panel 64 with sufficient force to swing the cover 52 about the hinge line 57 and disengage the tongues 77, 77' from the slits 79, 79'. This provides a hinged cover 52 which may be reclosed without re-engaging the locking tongues 77, 77' but with the latching tongues 83, 83' engaging in the latching slots 85, 85', the tongues 83, 83' being free to bend sufficiently in either direction about the longitudinal side edge of the front wall panel 61 to move into and out of the slots 85, 85' upon closing and reopening of the cover 52.

A further modification of the invention is illustrated in FIGURES 8 and 9. The carton 100 (FIGURE 9) is constructed in the same manner as the carton 50 in FIGURE 5 except that the front wall extends to the same height as the back wall and the cover is slightly modified. Since the carton 100 is formed from a rectangular blank 101 (FIGURE 8) which is cut and creased to form panels of the same character as formed in the blank shown in FIGURE 6, only those portions of the blank 101 which differ in structural arrangement will be described in detail, it being understood that all other portions of the blank are identical in construction with the blank 53 of FIGURE 6. The front wall forming panel 102 of the blank 101 is the same dimension longitudinally and transversely of the blank as the back wall forming panel 103. The side wall forming panels 104 and 104' which are hinged to the side edges of the front wall forming panel 102 have their corners cut away at 105 and 105' to remove the portions which would otherwise overlap the end areas of the inner side wall forming panels 106, 106' in which the locking slits 107 and 107' are cut. The corner connecting flaps 108, 108' which are hinged to the cover top wall forming panel 109 are cut away at 110, 110' so that in the erected condition of the carton they lie in the same plane as the outer side wall forming panels 104, 104' being received in the space provided by cutting away the latter on the lines 105, 105'. When the carton is erected the side wall forming panels 104, 104' are adhered to the outer faces of the side wall forming panels 106, 106' and the cover side wall panels 111, 111' are adhered to the corner connecting flaps 108, 108' only. The cover section may be opened by swinging the same about the top edge of the back wall 103 and the side walls 104, 104' will not interfere with the opening movement of the corner connecting flaps 108, 108' as they are released from engagement with the edges of the locking slits 107, 107'.

In FIGURES 10 and 11, there is illustrated a further modification which provides a simplified form of the carton shown in FIGURE 1. The carton 120 is adapted for packaging an article such as bottled merchandise where it is desired to have a top portion of the article uncovered and where the reclosable cover section is not required. The carton 120 comprises a tray forming section 121 having the side walls 122, 122' cut away at 123, 123' to display the contents and identical end closure sections 124 and 124' which are formed in the same manner from the blank 125. The blank 125 is symmetrical about the longitudinal and transverse center lines *c*—*c* and *d*—*d* and the center and one end half of the blank only will be described with the elements on one side of the longitudinal center line *c*—*c* being referred to by the same numeral primed as applied to the elements on the other side thereof. The middle section of the blank is divided by longitudinally extending transversely spaced parallel score lines 126 and 126' and transversely extending longitudinally spaced score lines 127 and 128, the latter defining with the former a bottom or back wall forming panel 130.

A transverse score line **129** divides the end section of the blank and defines with the score lines **126, 126'** an end wall forming panel **131** and a top end strap or panel **132**. Side wall forming panels **122, 122'** extend from the side edges of the bottom wall forming panel **130** and corner connecting flaps **134, 134'** extend from the side edges of the end wall forming panel **131** with the flaps **134, 134'** having their inner corners cut away on the lines **135, 135'**. Side wall forming flaps **136, 136'** extend laterally along the side edges of the top end panel **132**. The side wall forming panels **122, 122'** are provided with transversely extending locking slits **137, 137'** and the corner connecting flaps **134, 134'** are provided with cooperating triangular shaped locking tongues **138, 138'** formed by the longitudinally extending slits **140, 140'** in the same manner as in the blank shown in FIGURE 2.

In setting up the carton **120** and filling it with merchandise, the body forming section **121** of the blank **125** is first formed into a tray by folding the side wall forming panels **122, 122'** upwardly about the longitudinal score lines **126, 126'** and thereafter folding the end sections of the blank upwardly about the transverse score lines **127** and **128** and then folding the corner connecting flaps inwardly into engagement with the end portions of the side wall locking tongues **138** and **138'** in the cooperating locking slits **137, 137'**. After the blank is formed into a tray-like receptacle the merchandise to be packaged is placed in the same and the end strap members **132** are folded down about the score line **128** and thereafter the side wall covering panels **136** and **136'** are folded down about the longitudinal score lines **126, 126'** into overlapping engagement with the corner connecting flaps **134, 134'**, an adhesive being first applied to the faces of the panels **136, 136'** so that when folded into final position these panels will adhere not only to the outside surfaces of the corner connecting flaps **134, 134'** but also to the triangular portions of the side walls **133, 133'** which are exposed by cutting away the corner connecting tabs **134, 134'** on the lines **135, 135'**.

While in this form of the container the flip top or end cover need not be openable, it may be readily opened by first pulling on the bottom inner corners of the panels **136, 136'** to release them from the side walls **133, 133'** and then hinging the end and cover panels **131** and **132** about the crease line **127** forcing the locking tongues **138, 138'** out of engagement in the slits **137, 137'**.

While specific materials and particular details of construction have been referred to in describing the several forms of the carton illustrated and the method of forming the same, it will be understood that other materials and equivalent details of construction may be resorted to within the spirit of the invention.

I claim:

1. A carton formed from a one piece paperboard blank which is cut and creased to provide a connected series of panels forming the walls of the carton when erected, said carton comprising a bottom wall panel, front and back wall panels hinged to oppostie edges of the bottom wall panel, side wall forming flaps hinged to opposite side edges of the bottom, front and back wall panels and extending therefrom in overlapped side wall forming relation, the side wall flaps on the bottom and back wall panels having cooperating slits and tongues adapted to be interengaged to hold the same in side wall forming relation, the side wall flaps on the front wall panel being adhesively secured over the side wall flaps on the bottom and back wall panels, and a cover section comprising connected top and front cover forming panels hinged to the top edge of the back wall panel, side wall forming flaps on the side edges of said top and front cover forming panels, the side wall flaps on the top forming panel of said cover having locking tongues for cooperation with locking slits in the side wall flaps on said back wall panel to initially hold the panels in wall

forming relation, the side wall flaps on the front cover forming panel being in overlapping relation with the side wall flaps on the top cover forming panel and top marginal portions of the front wall panel and being adhesively secured to the side wall flaps on the top cover forming panel, said front wall panel having latching tongues extending from the lateral edges adjacent the top margin thereof and said cover section having latching slots for cooperation with said latching tongues when the cover section is closed whereby said carton may be initially set up in completely closed condition and the cover section may be hinged to open position by forcing the locking tongues on the top cover side wall flaps out of engagement in the slits in the side wall flaps on the back wall panel and thereafter the cover section may be hinged to closed position and held by engagement of said latching tongues in said latching slots.

2. A carton formed from a one piece paperboard blank which is cut and creased to provide a connected series of panels forming the walls of the carton when erected, said carton comprising a bottom wall panel, front and back wall panels hinged to opposite edges of the bottom wall panel, side wall forming flaps hinged to opposite edges of the bottom, front and back wall panels and extending therefrom in side wall forming relation, the side wall flaps on the bottom and back wall panels having means to hold the same in side wall forming relation, the side wall flaps on the front wall panel being secured over the side wall flaps on the back wall panel, and a cover section comprising connected top and front cover forming panels hinged to the top edge of the back wall panel, side wall forming flaps on the side edges of said top and front cover forming panels, the side wall flaps on the front cover forming panel being in overlapping relation with the side wall flaps on the top cover forming panel and with the top marginal portions of the side wall flaps on the front wall panel and being secured to the side wall flaps on the top cover forming panel, said front wall panel having latching tongues extending from the lateral edges adjacent the top margin thereof and said cover section having latching slots at the side edges of said front cover forming panel for cooperation with said latching tongues when the cover section is closed.

3. A blank for forming a paperboard carton, said blank being generally rectangular and being divided by transversely spaced, longitudinally extending, hinge forming score lines into a central section and spaced side marginal sections, said central section of the blank being divided by longitudinally spaced, transversely extending score lines into a front wall panel, a bottom wall panel, a rear wall panel, a top cover panel and a front cover panel which are hingedly joined in the order named, said blank having its side marginal sections subdivided by transverse cutting lines, which cutting lines extend from the ends of said transverse score lines into side wall forming flaps, one of said side wall forming flaps extending laterally of each side edge of each of the wall forming panels, the side wall flaps which extend from the back wall panel having locking slits adjacent opposite ends thereof and the side wall flaps which extend from the bottom and top wall panels having locking tongues cut in the outer side edges thereof for interlocking engagement in the locking slits when the carton is set up, and said wall flaps on the front wall panel having latching tongues cut therefrom at the outer ends of said longitudinally extending score lines and said side walls on the front cover panel having slots cut therein at the longitudinally extending score lines and adjacent the end of the blank.

4. A blank for forming a paperboard carton, said blank being generally rectangular and being divided by transversely spaced, longitudinally extending, hinge forming score lines into a central section and spaced side marginal sections, said central section of the blank being

divided by longitudinally spaced, transversely extending score lines into a front wall panel, a bottom wall panel, a rear wall panel, a top cover panel and a front cover panel which are hingedly joined in the order named, said blank having its side marginal sections subdivided into side wall forming flaps by transverse cutting lines which form extensions from the ends of said transverse score lines, one of said side wall forming flaps extending laterally of each side edge of each of the wall forming panels, the side wall flaps extending from the back wall panel having locking slits adjacent opposite ends thereof and the side wall flaps extending from the bottom and top wall panels having locking tongues cut in the outer side edges thereof for interlocking engagement in the locking slits when the carton is set up, said front wall panel having the same longitudinal dimension as the back wall panel and the side wall flaps on the front wall panel being cut away at the outer corners said cut away portions having dimensions corresponding to the dimensions of the flaps on the top cover panel so as to accommodate the side wall flaps on the top cover panel when the carton is set up.

5. A blank for forming a paperboard carton, said blank being generally rectangular and being divided by transversely spaced, longitudinally extending hinge forming score lines into a central section and spaced side marginal sections, said central section of the blank being subdivided by longitudinally spaced, transversely extending score lines into a front wall panel, a bottom wall panel, a rear wall panel, a top cover panel, and a front cover panel which are hingedly joined in the order named, said blank having its side marginal sections subdivided into side wall forming flaps by cutting lines which extend transversely of the blank from the ends of the transverse score lines, said side wall flaps extending laterally of each side edge of each of the wall panels, the side wall flaps which extend from the back wall panel having locking slits adjacent the ends thereof which adjoin the bottom wall panel and the side wall flaps which extend from the bottom wall panel having locking tongues cut in the outer side edges thereof for interlocking engagement in said locking slits in the side wall flaps when the carton is set up, said front wall panel having latching tongues at the outer ends of said longitudinally extending score lines which are cut from the material in the adjoining side wall flaps and said side wall flaps on the front cover panel having slots cut therein at the longitudinally extending score lines and adjacent the end of the blank.

6. A one piece paperboard blank for forming a carton, said blank being generally rectangular and being cut and creased to provide a connected series of panels forming the walls of the carton when erected, said blank being divided by parallel, spaced longitudinal and transverse crease lines into a bottom wall panel, front and back wall panels extending from opposite transverse edges of the bottom wall panel, a top wall panel extending from the transverse crease line at the other end of the back wall panel and a front cover panel extending from the transverse crease line at the opposite end of the top wall panel, side wall forming flaps extending along opposite side edges of the bottom, front and top wall and the front cover panels, said side wall forming flaps being separated from each other by transverse slits which extend transversely of the blank from the ends of the transverse crease lines separating the wall and cover forming panels, the side wall flaps on the bottom and back wall panels having cooperating locking slits and tongues adapted to be interengaged to hold the flaps in side wall forming relation in the erected condition of the carton, said front wall panel having latching tongues extending from the lateral edges which latching tongues are cut from the material in the side wall flaps adjacent the end of the blank and said front cover panel having latching slots at the side edges thereof adjacent the opposite end of the blank which latching slots are adapted for cooperation with the latching tongues on the front wall panel when the front cover panel is positioned with its end margin overlapping the end margin of the front wall panel in the erected condition of the carton.

7. A blank for forming a paperboard carton, said blank being generally rectangular and being divided by transversely spaced, longitudinally extending hinge forming score lines into a central section and spaced side marginal sections, said central section of the blank being subdivided by longitudinally spaced, transversely extending score lines into a front wall panel, a bottom wall panel, a rear wall panel, a top cover panel, and a front cover panel which are hingedly joined in the order named, said blank having its side marginal sections subdivided into side wall forming flaps by cutting lines which extend transversely of the blank from the ends of the transverse score lines, said side wall flaps extending laterally of each side edge of each of the wall panels, the side wall flaps which extend from the back wall panel and from the adjacent bottom wall panel having locking slits and locking tongues which cooperate when the carton is set up to hold these flaps in engagement, said front wall panel having latching tongues at the outer ends of said longitudinally extending score lines which are cut from the material in the adjoining side wall flaps and said side wall flaps on the front cover panel having slots cut therein at the longitudinally extending score lines and adjacent the end of the blank for cooperation with said latching tongues.

8. A carton formed from a one piece paperboard blank which is cut and creased to provide a connected series of panels forming the walls of the carton when erected, said carton comprising a bottom wall panel, front and back wall panels hinged to opposite edges of the bottom wall panel, side wall forming panels hinged to opposite edges of the bottom, front and back wall panels and extending therefrom in overlapped side wall forming relation, the side wall panels on the front wall panel being secured over the side wall panels on the bottom and back wall panels and holding the same in side wall forming position, and a cover section hinged to the top edge of the back wall panel, said cover section comprising connected top and front cover forming panels, side wall forming flaps on the side edges of said top and front cover forming panels, the side wall panels on the front cover forming panel being secured in overlapping relation with the side wall panels on the top cover forming panel and marginal portions of the front cover forming panel overlapping the top marginal portions of the front wall panel, said front wall panel having latching tongues extending from the lateral edges adjacent the top margin thereof and said cover section having latching slots in the side walls at the sides edges of the front cover forming panel for receiving in interengaging relation said latching tongues when the cover section is closed.

9. A carton formed from a one piece paperboard blank which is cut and creased to provide a connected series of panels forming the walls of the carton when erected, said carton comprising a bottom wall panel, front and back wall panels hinged to opposite edges of the bottom wall panel, side wall forming flaps hinged to opposite edges of the bottom, front and back wall panels and extending therefrom in overlapped side wall forming relation, the side wall flaps on the front wall panel being adhesively secured over the side wall flaps on the bottom and back wall panels, and a cover section comprising connecting top and front cover forming panels hinged to the top edge of the back wall panel, side wall forming flaps on the side edges of said top and front cover forming panels, the side wall flaps on the front cover forming panel being in overlapping relation with the side wall

flaps on the top cover forming panel and with the top marginal portions of the side wall flaps in the front wall panel and being adhesively secured to the side wall flaps on the top cover forming panel, said front wall panel having latching tongues extending from the lateral edges adjacent the top margin thereof and said cover section having latching slots at the juncture of the front cover forming panel and the side wall flaps thereof for cooperation with said latching tongues when the cover section is closed.

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