Jan. 9, 1968 M. T. FARQUHAR 3,362,614

CONTAINER AND BLANKS FOR MAKING SAME

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Fig 1.

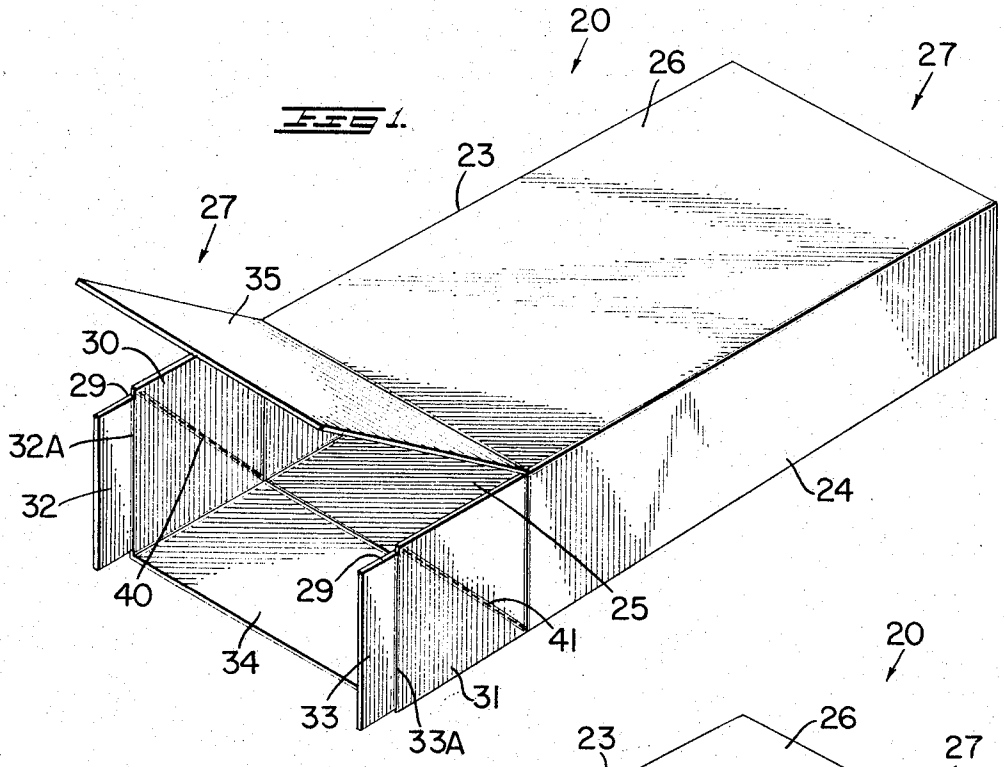
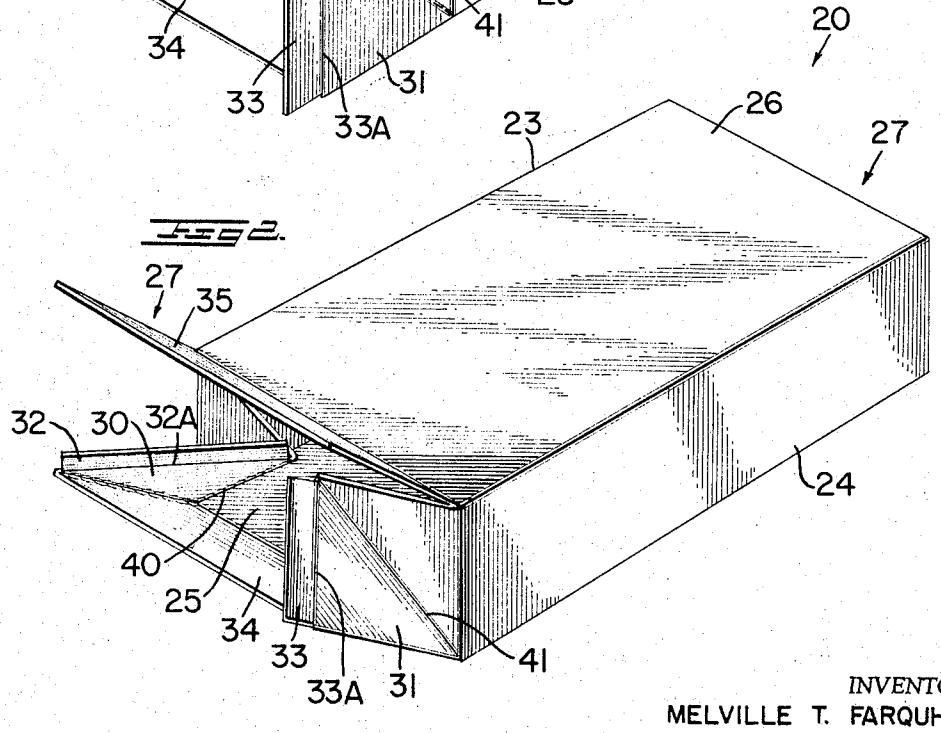


Fig 2.



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Fig 3.

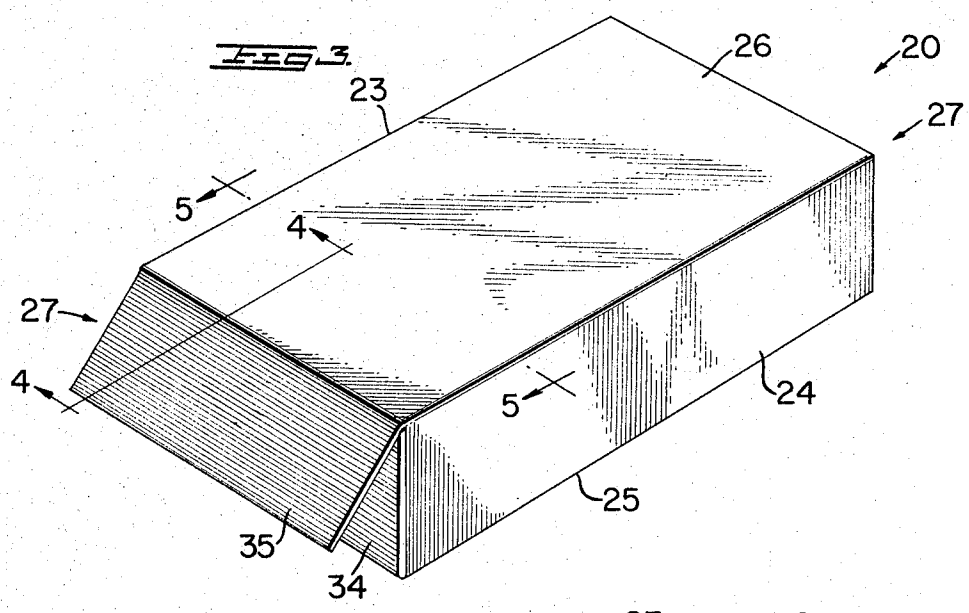
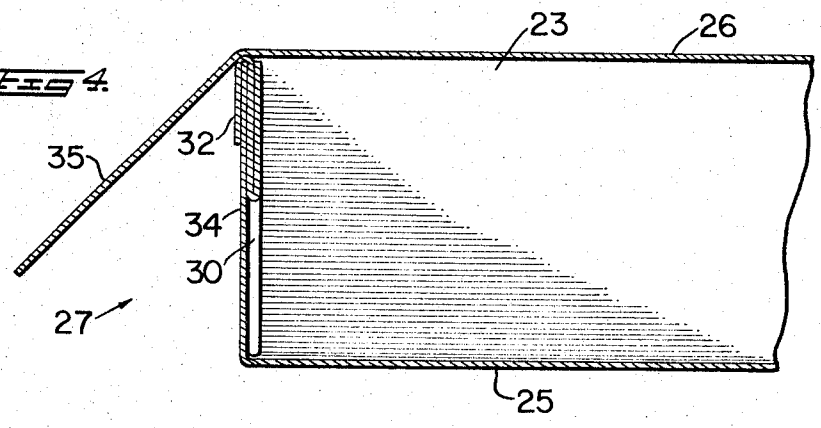


Fig 4.



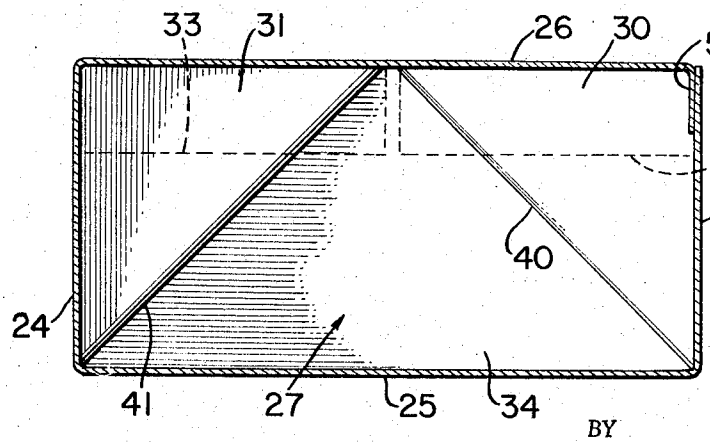


Fig 5.

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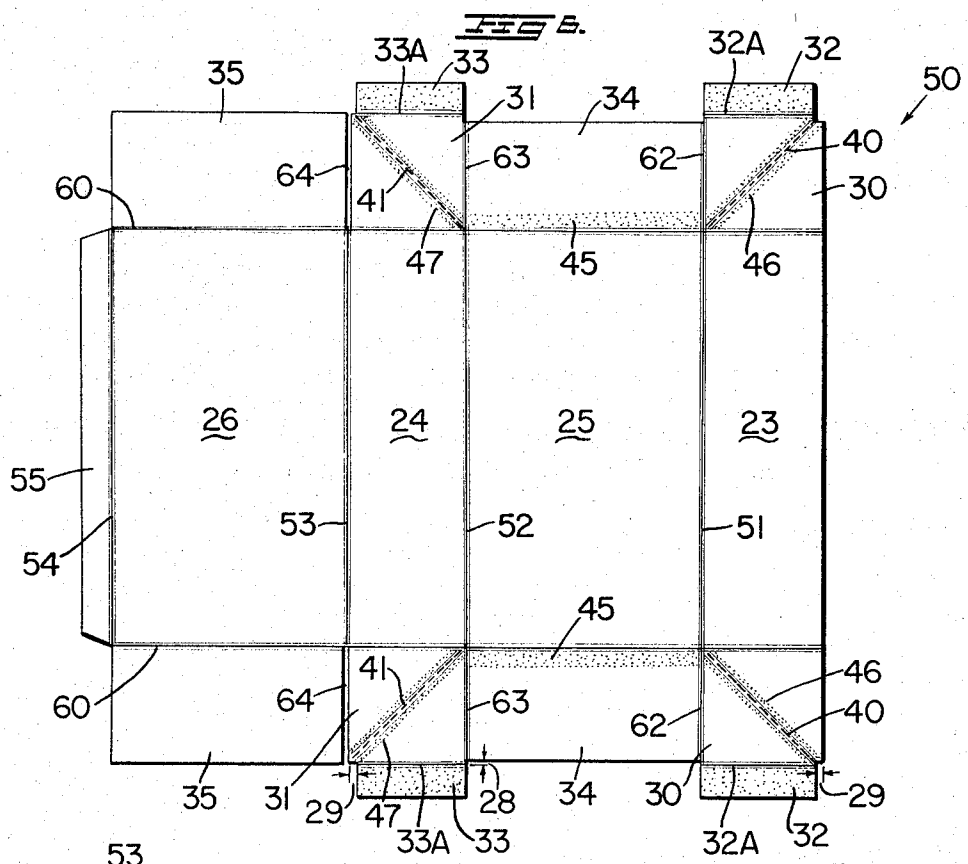
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Jan. 9, 1968 M. T. FARQUHAR 3,362,614

CONTAINER AND BLANKS FOR MAKING SAME

Filed April 20, 1966 3 Sheets-Sheet 3

FIG 6.



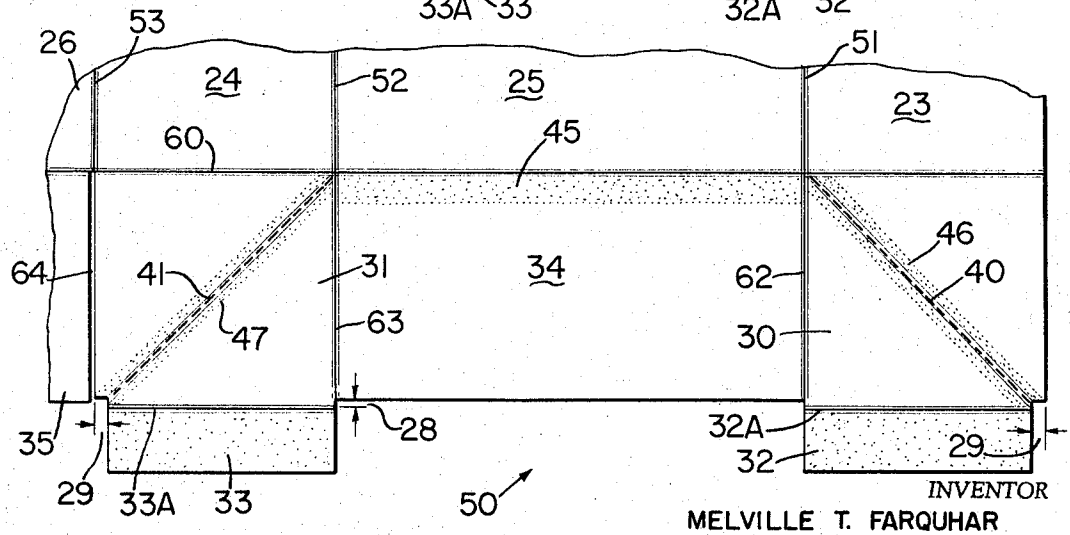


FIG 7.

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3,362,614

CONTAINER AND BLANKS FOR MAKING SAME

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Filed Apr. 20, 1966, Ser. No. 543,955
11 Claims. (Cl. 229—37)

ABSTRACT OF THE DISCLOSURE

This disclosure relates to an improved container having an end wall at one or both ends thereof which is of rectangular outline and which is comprised of three flaps fastened together to define a substantially U-shaped pouring spout for the contents of such container. Two oppositely arranged ones of such three flaps having score means enabling each to be folded coplanar with the third flap and each of the two flaps also has a tab extending from its outer end. Each tab is folded around the terminal end of the third flap and helps hold the third flap in position upon fastening the fourth or closure flap of such container in position.

This invention pertains to improved container means and more particularly to container means having improved closure means and to improved blanks for making such container means or the like.

The marketing of many food products has been more successful in those instances where such food products are packaged in containers or cartons which serve the dual function of providing a packaging carton as well as a carton in which the food product carried therein may be cooked prior to opening thereof. It is preferred that such dual function carton should have easily opened closure means and be of liquid-tight nature to prevent liquids from entering the carton and contaminating the food as well as assuring that food juices are not lost from the carton.

Accordingly, it is a feature of this invention to provide improved container means of simple and economical construction and having improved closure means.

Another feature of this invention is to provide improved container means of the character mentioned for containing a food product and which serves the dual function of being a package in which such food product is sold, as well as serving as a container in which the food product may be cooked.

Another feature of this invention is to provide improved container means having the general shape of a parallelepiped and having identical unique closure means in opposite end wall means thereof which are essentially of a liquid-tight nature.

Another feature of this invention is to provide such improved container means having wall means which may be partially fastened together yet enabling such container means to be shipped and stored flat and which may be readily erected by a user thereof and easily sealed after inserting a product therewithin.

Another feature of this invention is to provide improved container means of the character described which can be made using existing machinery.

Therefore, it is an object of this invention to provide improved container means having one or more of the novel features of this invention as set forth above or hereinafter shown or described.

Another object of this invention is to provide improved blanks for making such container means or the like.

Other objects, uses, and advantages of this invention

are apparent from a reading of this description which proceeds with reference to the accompanying drawings forming a part thereof and wherein:

FIGURE 1 is a perspective view of an exemplary container means of this invention with one end thereof closed and the other end open showing the arrangement of foldably interconnected bottom and side wall extension flap means and showing an extension flap means in the top wall thereof arranged at an angle with respect to such top wall.

FIGURE 2 is a perspective view of the container means of FIGURE 1 showing the foldably connected extension flaps in the bottom and side wall means thereof partially closed.

FIGURE 3 is a perspective view similar to FIGURE 2 in which the extension flaps extending from the bottom and side walls are fully closed and showing the top wall extension flap partially closed.

FIGURE 4 is a sectional view on the line 4—4 of FIGURE 3.

FIGURE 5 is a sectional view on the line 5—5 of FIGURE 3.

FIGURE 6 is a plan view of the blank used to make the container means illustrated in FIGURE 1.

FIGURE 7 is an enlarged view of one end portion of the blank of FIGURE 6 particularly illustrating the arrangement of the extension flap means, and tab means extending from a pair of the extension flap means as well as score means in such pair of extension flap means.

While the various features of this invention are hereinafter illustrated and described as being particularly adaptable for providing container means for food products and container means in which food products previously carried within may be cooked, it is to be understood that the various features of this invention can be utilized singly or in any combination thereof to provide container means for other articles as desired.

Therefore, this invention is not to be limited to only the embodiments illustrated to the drawings because the drawings are merely utilized to illustrate one of the wide variety of uses of this invention.

In the exemplary embodiment of this invention illustrated in the drawings, improved container means such as container 20 is illustrated, as well as the improved container blank, in FIGURES 6 and 7, for making such container.

Container 20 of this example of the invention is illustrated in FIGURE 1 and is particularly adapted for packaging a food product therein, for example, fruits and vegetables, including frozen foods, or the like, being useable as a cooking container therefor. Container 20 has a pair of end wall means identical to the open end wall means shown in detail in FIGURES 1–3 and such end wall means provide a large access opening for easy insertion of a food product therein. Once a food product has been placed within container 20 the end wall means thereof are simply and readily folded together and sealed using the unique sealing means provided in the end wall means. Container 20 is adapted to enable cooking the food product therein prior to opening such container. For example, container 20 may be inserted within an oven and the food contained therein baked. The sealing arrangement provided for container 20 is such that food juices cannot flow out of the container during cooking. After completion of the cooking action, container 20 is easily opened by grasping the extension flap means defining the outside surface of an end wall and the structural arrangement thereof assures food does not spill therefrom during opening.

Container 20 has side wall means comprising a pair of oppositely arranged side walls 23 and 24, bottom wall

25, and top wall 26 which are suitably foldably fastened together to define a tubular structure having open ends. Side walls 23 and 24 are of identical rectangular outline while bottom wall 25 and top wall 26 are similarly of identical rectangular outline. Thus it is seen that upon fastening walls 23–26 together a tubular structure having open ends and a rectangular sectional outline is provided.

Extension flap means are provided in side wall means 23–26 at both ends thereof. The extension flap means at each end are folded into a common plane to define the corresponding end wall means at each end of container 20. Because both end wall means or end walls are identical they are both designated by the numeral 27 and corresponding extension flap means at opposite ends of each side wall 23–26 will be given identical numbers.

The detailed description of container 20 and particularly of the extension flap means associated with the open end 27 (as shown in FIGURE 1) thereof will now be presented. The description is fully applicable to the extension flap means at both ends of container 20.

Side walls 23 and 24 have a first pair of oppositely arranged extension flap means or extension flaps 30 and 31 extending respectively from a corresponding end edge thereof. Flaps 30 and 31 are of generally rectangular outline, and are generally coextensive in width with their associated side wall; and flaps 30 and 31 extend an equal distance from their associated wall. Each extension flap 30 and 31 has rectangular tab means or a rectangular tab 32 and 33 respectively extending therebeyond as will be described in more detail subsequently.

Bottom wall 25 and top wall 26 each has extension flap means or flaps 34 and 35 respectively extending from an end edge thereof adjacent extension flaps 30 and 31. Extension flaps 34 and 35 define a second pair of oppositely arranged flaps which are of generally rectangular outline and are coextensive in width with their associated bottom wall 25 and top wall 26. Furthermore, extension flaps 34 and 35 extend outwardly beyond their associated wall approximately the same length or distance as the extension of flaps 30 and 31 beyond their associated walls. Flap 34 extending from bottom wall 25 is preferably a small fraction of an inch shorter than flap 35, as indicated by numeral 28 in FIGURE 6, making it easier to fold the flaps defining end wall 27 in position as will be described in more detail subsequently.

The first pair of flaps 30 and 31 and second pair of flaps 34 and 35 are adapted to be folded in a common plane to define end wall 27.

Flaps 30, 31, and 34 are fastened together along their side edges. In this example of the invention, flaps 30, 31, and 34 are foldably interconnected, as will readily be apparent from FIGURE 6, illustrating the blank used to make container 20.

Score means which will be referred to as cut-score means is provided in each extension flap 30 and 31 and designated respectively by the numerals 40 and 41. Each cut-score means or cut-score 40 and 41 comprises a series of spaced apart cuts commencing at a corner of its associated extension flap adjoining bottom wall 25 and extending diagonally thereacross in a rectilinear manner. The spaced apart cuts comprising each cut-score 40 and 41 make it easier to fold their respective flaps 30 and 31 in position thereabout. Each cut-score 40 and 41 bisects its associated rectangular extension flap to define two triangular segments. Cut-scores 40 and 41 enable flaps 30 and 31 to be folded into a common plane with flap 34 prior to sealing flap 35 in position to define the outside surface of end wall 27.

Extension flaps 30 and 31 have tab means illustrated as a pair of generally rectangular tabs 32 and 33 respectively extending therebeyond. Tabs 32 and 33 are approximately coextensive in width with the associated rectangular flap and preferably extend therebeyond an equal distance. Tabs 32 and 33 extend respectively beyond an associated score line 32A and 33A defining the terminal

end of corresponding rectangular flaps 30 and 31. Each tab 32 and 33 is a small fraction of an inch narrower in width, shown at 29, than its respective flaps 30 and 31. The small reduction in width 29 in each tab 32 and 33 is preferably arranged to lie near the center portion of each end wall 27 adjacent top wall 26 of assembled container 20, making it easier to fold the cooperating extension flaps into a common plane defining end wall 27.

It will be seen from FIGURES 1–3 that an end wall 27 of container 20 is sealed by first folding extension flaps 30 and 31 about their association cut-scores 40 and 41 so that the triangular portions thus defined lie within the general outline of container 20. Inasmuch as extension flap 34 is foldably fastened along its opposite edges to extension flap 30 on one side and extension flap 31 on the other side, flap 34 is also folded upwardly simultaneously with folding flaps 30 and 31 about their cut-scores 40 and 41. As flaps 30, 31, and 34 are folded into a common plane tabs 32 and 33 are folded about their associated score lines 32A and 33A so that upon folding extension flap 35 downwardly, tabs 32 and 33 are sandwiched between extension flap 34 and extension flap 35. This sandwiching action helps hold the extension flap 34 firmly in position and helps provide an end wall of improved strength.

It will thus be apparent that the shorter flap 34 provides a clearance at 28 enabling tabs 32 and 33 to be folded over the terminal end of such flap and thus makes it easier to fold extension flaps 30, 31, 34, and 35 into a common plane as described above.

Means is provided for fastening together the various extension flaps 30, 31, 34, and 35 and the associated tabs 32 and 33 of flaps 30 and 31. Such means includes suitable adhesive means such as moisture impervious glue means or glue, or the like, of the type which does not become unfastened on the application of moderate heat or upon being placed in a pan of hot liquid or the like, for example.

The adhesive means is preferably applied in an identical manner at both ends of container 20 and such adhesive means extends along the outside surface of extension flap 34 along a strip at the lower end of such flap designated generally by the numeral 45. Adhesive means is also provided on the entire outer surface of tabs 32 and 33—such outer surface being determined with tabs 32 and 33 in their assembled positions prior to sealing flap 35 in position.

An adhesive strip 46 is provided diagonally across the outside surface of extension flap 30 to either side of its associated score means 40, and a similar adhesive strip 47 is provided diagonally across the outside surface of flap 31 and to either side of score means 41. The adhesive applied in strips 46 and 47 is of a hot-melt type which becomes liquid upon being subjected to a comparatively high heat.

Thus, it will be seen that the extension flap means are folded in position to define end walls 27 by first folding the triangular portions of both extension flaps 30 and 31 in a direction opposite from the normal manner of folding flaps of this type, i.e. inwardly. This inward folding causes portions of each adhesive strip 46 and 47 lying on either side of cut-scores 40 and 41 respectively to lie in adjoining relation. Tabs 32 and 33 are then folded over the top edge of flap 34 so that their adhesive surfaces face outwardly. Flap 35 is then placed in position defining the outside surface of each end wall 27. With the flaps thus folded and held together each end wall 27 is subjected to a comparatively high heat thereby adhesively fastening together the triangular portions of flaps 30 and 31 along their adjoining portions. Flap 35 is also sealed along the top edge thereof to the outside surfaces of tabs 32 and 33, and along its bottom edge to adhesive strip 45 arranged along the outer base portion of flap 34. Thus, it is seen that a complete seal is provided for each end wall 27.

The application of comparatively high heat to the adjoining triangular portions of both extension flaps 30 and

31 causes the hot-melt adhesive previously mentioned to melt and flow into the spaced apart cut means comprising each associated cut-score means 40 and 41 respectively. The adhesive completely fills the void provided by each cut means and upon cooling provides an improved seal in each end wall 27. The primary function of the adhesive means applied in strips 46 and 47 is to seal the cuts of its associated fold means; however, the overlapped triangular portions of each flap 30 and 31 are also held adhesively fastened together, upon cooling of such hot-melt adhesive. The use of spaced apart cut means or cuts arranged in a rectilinear manner diagonally across their associated flaps 30 and 31 make it easier to fold the triangular portions of each of such extension flaps 30 and 31 about the cut-score means defined by such cuts.

The tabs 32 and 33 are approximately the same width as their respective flaps 30 and 31 in this example of the invention—being slightly narrower as shown at 29. Tabs 32 and 33 may be made wider than their associated extension flaps and constructed so that in their associated end wall 27 provide an overlap along the center portion thereof for increasing strength, and to provide a better seal. The height of side walls 23 and 24 are shown as being approximately ½ the dimension of the width of bottom wall 25 and top wall 26 in this example. It will be appreciated that walls 23 and 24 may be greater in height than such ½ dimension so that extension flaps extending coextensively therefrom would provide a more positive overlap along the center portion and assure an even better fluid-tight seal for a product carried within container 20.

The wall construction of container 20 may be made to suit the particular application while retaining the improved closure means. For example, the wall construction may include a material such as metallic foil on one or both sides thereof suitably laminated to enable container 20 to be used as a baking receptacle which prevents food juices from escaping therefrom. Or the wall construction may be such that the sealed container may be placed in a pan of boiling water or the like and the food container therein cooked without water seeping into the container. Regardless of the manner of cooking, container 20 is easily opened by unfastening flap 35 first at its lower edge and then along its top edge. The tabs 32 and 33 will then generally tend to extend outwardly and may be grasped to commence pulling flaps 30, 31, and 34 toward their extended position. While flaps 30, 31, and 34 are partially opened a spout-like end is produced enabling the contents of container 20 to be easily poured out.

Container 20 can be formed in any suitable manner and made from any suitable foldable material. It is preferably formed from the container blank 50 illustrated in FIGURE 6. Blank 50 is made of cardboard or the like having one or both sides thereof laminated with metallic foil, such as aluminum-containing metallic foil, or the like, suitably colored, embossed, imprinted, or remaining plain, as desired.

Blank 50 is suitably cut and scored and includes a series of parallel rectilinear score or fold lines 51, 52, 53, and 54 defining side wall 23 extending between score line 51 and one side edge of blank 50, bottom wall 25 extending between score lines 51 and 52, side wall 24 extending between score lines 52 and 53, and top wall 26 extending between score lines 53 and 54. An extension flap 55 extends beyond score line 54. Flap 55 is suitably fastened as by glue or the like, to side wall 23 to thereby define a generally tubular structure having open ends prior to fastening the end wall means of such structure in position.

Blank 50 has a pair of parallel spaced apart score lines each designated by the numeral 60 and arranged to engage opposite terminal ends of score lines 51–54. Score lines 60 define the length of walls 23–26. The lateral extent or width of such walls is defined by score lines 51–54 as previously described.

As explained previously, the end walls at opposite ends of container 20 formed from blank 50 are identical and formed in an identical manner, thus, both end walls have been designated by the numeral 27. Similarly, the various extension flaps which are folded together to form end wall 27 at each end of container 20 have been given the same numeral designation; therefore, the following detailed description of one end wall 27 is fully applicable to both end walls.

Wall 27 is defined by a series of extension flaps 30, 34, 31, and 35 along one end portion of blank 50 extending respectively beyond side wall 23, bottom wall 25, side wall 24, and top wall 26. The side edges of flaps 30, 34, 31, and 35 are respectively defined along one side edge by a series of parallel spaced apart score and cut lines such as score line 62, score line 63, and cut line 64. Lines 62, 63, and 64 extend beyond a terminal end of score line 51, 52, and 53 respectively and beyond an associated score line 60 at an associated end of blank 50.

Extension flap 30 has diagonal cut-score means 40 comprising a series of elongated in-line cuts extending thereacross and defining a pair of right-angled triangles on either side of diagonal 40 which forms the hypotenuse of each of such triangles. Extension flap 30 also has a score line 32A therein defining a tab 32 extending therebeyond.

In an identical manner, extension flap 31 has diagonal cut-score means 41 extending thereacross and defining a pair of right-angled triangles on either side of such diagonal score means. Extension flap 31 also has a score line 33A with tab 33 extending therebeyond.

As seen in FIGURE 6, flap 34 is shorter in length or outward extension than flaps 30, 31, and 35 and the amount of length reduction is shown at 28. Thus, upon folding flaps 30, 31, and 35 to define end wall 27 the space at 28 enables tabs 32 and 33 to be folded over the terminal end of flap 34 making it easier to fold outside flap 35 in position. In addition, it will be seen that tabs 32 and 33 each have a width which is slightly narrower than their associated flaps 30 and 31 respectively. The reduction in width is shown at 29 and makes it easier to fold tabs 32 and 33 in position in the assembled container 20.

The adhesive means for fastening blank 50 together to form container 20 is illustrated in detail in FIGURE 6 and preferably comprises adhesive means such as moisture impervious glue or the like activated by a comparatively high temperature and applied to the blank to define elongated adhesive strips. The adhesive strips include a strip 45 along the base portion of extension flap 34. An elongated strip of adhesive means 46 extends diagonally across extension flap 30 generally to either side of cut-score 40 and a similar adhesive strip 47 extends diagonally across extension flap 31 and to either side of cut-score 41. Adhesive means is also applied to tabs 32 and 33, preferably over the entire outer surface of each.

As will be apparent from FIGURE 6, the adhesive pattern is the same for both end portions of blank 50. The adhesive means or glue is applied only on one side or surface of blank 50 so as to be easily and economically applied during the manufacture of such blank, using standard machinery and equipment. The adhesive means is of the type which enables container 20 to be subjected to moderate heat and/or moisture without becoming unfastened to enable a food product, for example, carried therein to be prepared for consumption.

As will be apparent from FIGURE 6, blank 50 is of a generally rectangular outline and is cut and scored so as to provide the improved container means 20 with minimum waste of blank material.

Terms such as "side wall," "bottom wall," 'top wall," "end wall," "bottom," "top," etc., have been used in this disclosure for ease of description and to define the walls of the container means as illustrated in the drawings. Such description is not to be considered as limiting the scope of this invention in any way.

Thus, it is seen that an improved container means having improved closure means has been provided and which is particularly adapted to be used as container means for cooking a food product previously carried therein and that such closure means provides an improved seal for such container means as well as providing a spout-like arrangement for pouring out the contents of such container means.

Further, this invention provides improved blanks for forming such improved container means or the like.

While the form of the invention now preferred has been disclosed as required by statute, other forms may be used, all coming within the scope of the claimed subject matter which follows.

What is claimed is:

1. Container means having four side wall means fastened together to initially define an open ended tubular structure of rectangular sectional outline and having first and second pairs of oppositely arranged extension flap means extending from an end thereof and defining end wall means of said container means, said second pair of extension flap means having one extension flap means which is shorter in length than the other extension flap means of said second pair, each of said first pair of extension flap means being fastened along one of its side edges to an associated side edge of one of said second pair of extension flap means, score means in each of said first pair of extension flap means enabling each to be overlapped into a common plane with said one extension flap means, tab means extending from the terminal outer end of each of said extension flap means of said first pair, each of said tab means being easily folded about an associated score line and around the terminal end of said one extension flap means of shorter length and against its terminal outer end portion, and means sealing the other of said second pair of extension flap means in position to sandwich said tab means between said second pair of extension flap means and define the outside surface of said end wall means.

2. Container means as set forth in claim 1 in which said first and second pairs of extension flap means extend from both ends thereof.

3. Container means as set forth in claim 1 in which each of said tab means is generally coextensive in width with its associated extension flap means.

4. Container means as set forth in claim 3 in which said first and second pairs of extension flap means are rectangular in outline and each of said tab means is rectangular in outline and extends beyond its associated extension flap means an equal distance which is a small fractional part of the length of said associated extension flap means.

5. Container means as set forth in claim 4 in which said score means extend diagonally across each of said rectangular extension flap means of said one pair so as to define a pair of identical triangular areas which are overlapped into said common plane with the outline of said rectangular sectional outline, and said means sealing said other extension flap of said second pair in position comprises adhesive means supplied along the outer surface of said one flap adjacent its base and adhesive means applied on the outer surface of said tab means in their folded positions and the other of said second pair of extension flap means is adhesively sealed in position along opposite edges thereof.

6. Container means having four side wall means fastened together to initially define an open ended tubular structure of rectangular sectional outline and having first and second pairs of oppositely arranged extension flap means of rectangular outline and extending from an end thereof and defining end wall means of said container means, each of said first pair of extension flap means being fastened along one of its side edges to an associated side edge of one of said second pair of extension flap means, cooperating cut and score means extending diagonally across each of said first pair of extension flap means to define a pair of triangular areas associated with each extension flap means of said first pair enabling said triangular areas to be overlapped into a common plane with said one extension flap means within said rectangular sectional outline, tab means of rectangular outline extending from each of said extension flap means of said first pair and being coextensive in width therewith, each of said tab means extending beyond its associated extension flap means an equal distance which is a small fractional part of the length of said associated extension flap means, and means sealing the other of said second pair of extension flap means in position to sandwich said tab means between said second pair of extension flap means in side-by-side relation and define the outside surface of said end wall means, said means sealing the other of said second pair of extension flap means in position comprising adhesive means applied along the outer surface of said one flap adjacent its base which cooperates with said adhesive means on the outer surface of said tab means to adhesively seal the other of said second pair of extension flap means in position adjacent opposite edges thereof, and adhesive means on either side of each of said cooperating cut and score means, whereby upon overlapping each associated pair of triangular areas into said common plane and applying comparatively high heat thereto said adhesive means on either side of its associated cooperating cut and score means flows into and seals said associated cut means while also adhesively fastening said triangular areas together in folded relation in said common plane.

7. Container means as set forth in claim 6 having metal foil laminated to a side thereof, thereby defining container means having wall means which are impervious to liquid flow therethrough.

8. Container means as set forth in claim 5 which upon sealing the other of said second pair of extension flap means in position defines essentially a fluid-tight container means, said container means being easily opened by unfastening said other of said second pair of extension flaps at its sealed locations along its base portion and along its terminal end portion thereby also unfastening said tab means and upon pulling such tab means outwardly defining spout means for said container means.

9. A blank being cut and scored and adapted to be folded to define a resulting container means having four side wall means fastened together to initially define a tubular structure with open ends and of generally rectangular sectional outline and having first and second pairs of oppositely arranged extension flap means of rectangular outline extending from an end thereof and being foldable to define end wall means of said resulting container means, said second pair of extension flap means having one extension flap means which is shorter in length than the other extension flap means of said second pair, each of said first pair of extension flap means being fastened along one of its side edges to an associated side edge of one of said second pair of extension flap means, score means in each of said first pair of extension flap means enabling each to be overlapped into a common plane with said one extension flap means in said resulting container means, tab means of rectangular outline extending from each of said extension flap means of said first pair, each of said tab means extending beyond its associated flap means an equal distance and being slightly narrower in width than its associated flap means and being easily folded around the terminal end of said one extension flap means of said second pair, said one extension flap means which is shorter in length also enabling easy folding of said other extension flap means in position, and means on said blank for sealing the other of said second pair of extension flap means in position so that in said resulting container said tab means are sandwiched between said second pair of extension flap means in side-by-side relation and extend downwardly

from the top of said resulting container means an equal distance and said other extension flap means defines outside surface means of said end wall means.

10. A blank as set forth in claim **9** in which each of said rectangular extension flap means comprising said first pair has score means including cut means therein extending diagonally thereacross to define a pair of triangular areas adapted to be overlapped into said common plane within the outline of said rectangular sectional outline and further comprising adhesive means on either side of said diagonally extending cut and score means in each of said rectangular extension flap means, and said means sealing said other extension flap of said second pair in position comprises adhesive means applied along the outer surface of said one flap of said second pair adjacent its base and adhesive means applied on the outer surface of said tab means in their folded positions, whereby upon overlapping said pairs of triangular areas into said common plane and folding said tab means and the other of said second pair of extension flaps in position to define said end wall means in said resulting container means and subjecting said end wall means to comparatively high heat, said adhesive

means flows into and seals said cut means while also adhesively fastening said overlapped triangular areas as well as adhesively fastening said other of said second pair of extension flap means in position along opposite edges thereof.

11. A blank as set forth in claim **10** in which said adhesive means comprises moisture impervious hot-melt glue means enabling said resulting container means to be subjected to moderate heat and used as a cooking container for food contained therein.

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DAVIS T. MOORHEAD, *Primary Examiner.*