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HANDLE BASKET CONSTRUCTION

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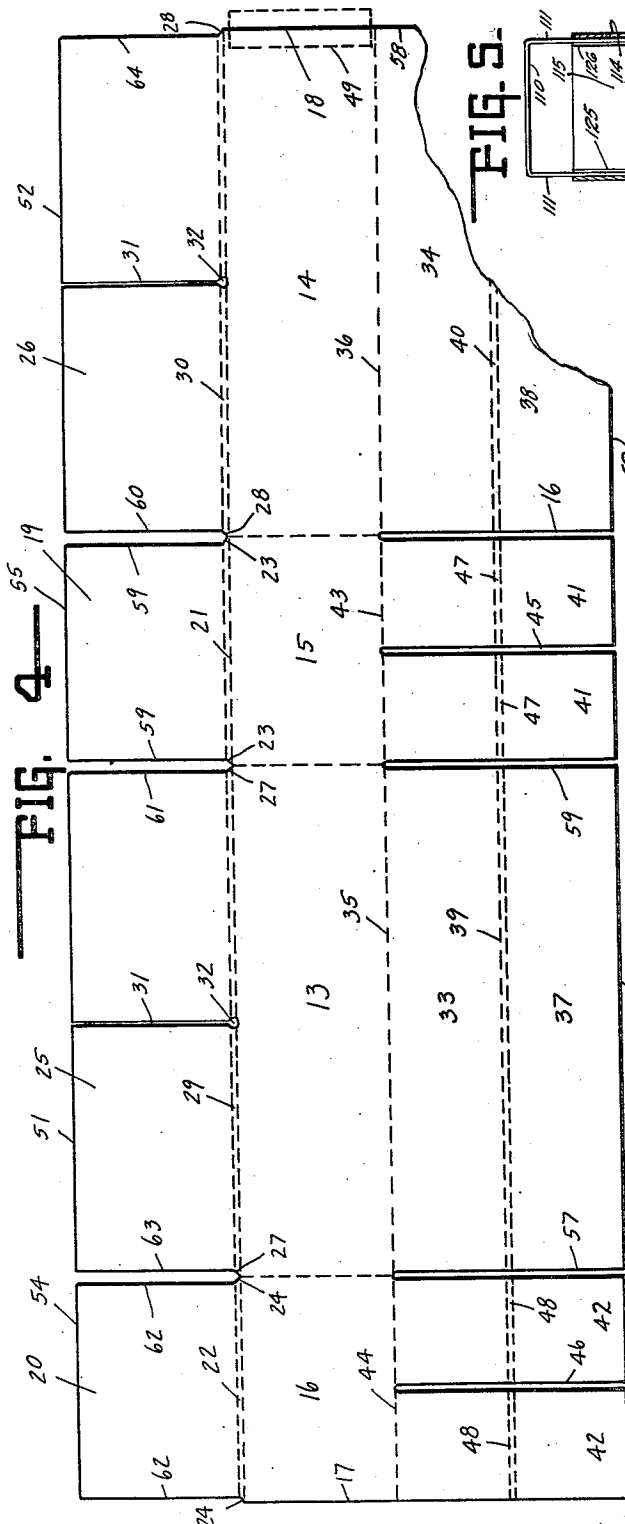


FIG. 4

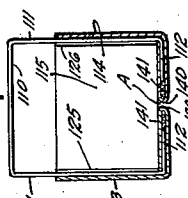


FIG. 5

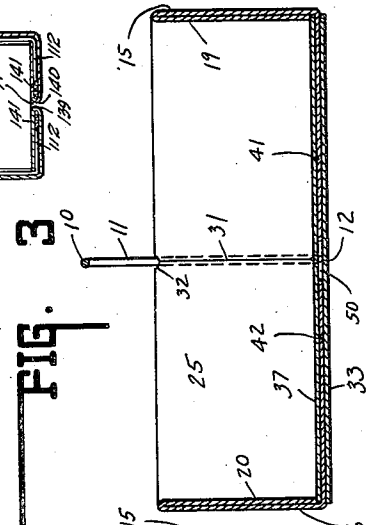
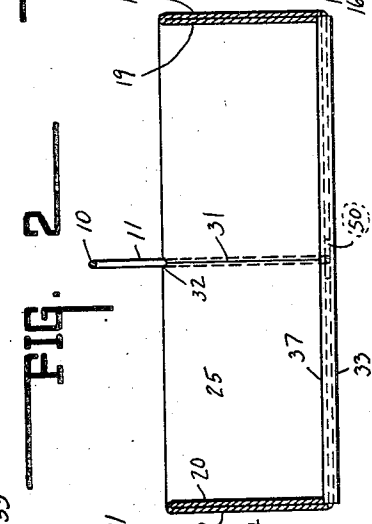


FIG. 3



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HANDLE BASKET CONSTRUCTION

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13 Claims. (Cl. 223-6)

This invention relates to a basket structure.

The chief object of this invention is to provide a basket of handle character which may be made of corrugated board and which may be readily shipped in quantities in knocked-down condition and readily assembled in basket formation by the fruit or vegetable packer and which does not require the use of any tools whatsoever to set up the handled basket in its complete form.

One feature of the invention consists in providing a basket structure which is of self-interlocking character, whereby the several parts are so associated together that accidental displacement of the parts is substantially prevented.

Another feature of the invention consists in the inherent adaptability for the provision of the desired amount of ventilation through the basket without the use of perforations, which always leave a sharp edge and which mars the surface of the fruit or vegetables engaging said edge, this being particularly true where bottom ventilation is provided. The ventilation feature, however, may be substantially eliminated by having the bottom portions contact each other throughout their length when desired.

Another feature of the invention consists in the dual wall and dual bottom construction.

Another feature of the invention is the formation of the handle structure and its positioning in an aligning groove in the basket body proper.

Whenever a covered basket structure is desired, a cover as shown in Fig. 2 of the copending Bomberger application, Serial No. 33,097, filed July 25, 1935, may be associated therewith, except that instead of having a wide notch along the longitudinal edges, only a small half circle would be provided, but since such cover is disclosed in the aforesaid application and the present invention is not primarily directed to a covered basket or the cover for a basket, the same has been intentionally omitted herefrom for conciseness.

The full nature of the invention will be understood from the accompanying drawing and the following description and claims:

In the drawing, Fig. 1 is a central transverse sectional view of the completed handled basket.

Fig. 2 is a similar but longitudinal sectional view and is taken on line 2-2 of Fig. 1 and in the direction of the arrows.

Fig. 3 is a longitudinal sectional view taken substantially in the plane indicated by line 3-3 of Fig. 1 and in the direction of the arrows.

Fig. 4 is a plan view of the blank from which the basket is made.

Fig. 5 is a central transverse sectional view of

a modified form of the invention and similar to that shown in Fig. 1 but to a smaller scale, the modification therefrom being slightly exaggerated.

The handle is of wire formation or of such materials of like nature as may be substituted. It includes a transverse portion 10 and two side portions 11, with two inturned ends 12, these being directed towards each other but having their free ends spaced apart, as shown in Fig. 1. If desired, the upper portion of the handle structure may be arched from the top of the basket to the center of the handle above the basket proper.

The blank illustrated in Fig. 4 is of unitary character and preferably is of corrugated board having an intermediate corrugated body portion and liner board secured to opposite sides thereof, as is well understood in the corrugated board art. Certain pliable forms of solid fibre board may be utilized in place of corrugated board, if, as and when desired.

The blank shown in Fig. 4 includes a side 13, an opposite side 14, an end 15 therebetween, and another and similar end 16, it being understood the edge 17 of end 16 and the edge 18 of side 14 are suitably secured together as by a strip of tape 49 secured exteriorly or interiorly or both, when the blank is folded into its collapsed and shipping condition. Stapling or any other type of manufacturer's joint may be employed.

Extending from the top edge of the end 15 as at 19 is an end flap and similarly end 16 is provided with the end flap 20. These flaps are of slightly less height or approximately the same height as the height of the respective ends and are of slightly less width than the respective ends to which said flaps are secured by a double score or crease, the latter being indicated by the numerals 21 and 22 for flaps 19 and 20, respectively. The reduction in width is provided by the tapered cuts 23 and 24 for flaps 19 and 20, respectively.

Integral with each of the sides 13 and 14 and in longitudinal alignment with the end flaps 19 and 20, are the side flaps 25 and 26, similarly reduced in width as at 27 and 28, respectively, and of the same or slightly lesser height than the height of the respective side walls, said flaps being secured to the respective sides by the double crease arrangement 29 and 30, respectively. Each of the flaps 25 and 26 is divided for its full height and midway between the ends as at 31 and at the creased portion terminates in a perforation, herein shown in circular form and indicated by numeral 32.

The bottom of the basket includes a pair of half bottom members in the form of flaps 33 and 34, scoringly connected by a single score arrangement 35 and 36, respectively, to the bottom of the sides 13 and 14. Each of the bottom-forming portions includes another portion 37 and 38 scoringly connected thereto by the multiple score or crease 39 and 40, respectively. The length of portions 33-34 and 37-38 are substantially the length of the sides and the width of each of these portions is substantially half the width of the ends 15 and 16.

Integral with the ends 15 and 16 is a pair of divided extensions 41 and 42, respectively, connected to the bottom of the ends 15 and 16 by the single score connection 43 and 44, respectively. Each end bottom extension in one dimension is of a length equal to the total overall width of the portions 33 and 37 or 34 and 38. Each of the portions 41 and 42 are divided for the full depth of the extension as at 45 and 46, respectively, and this division is of a width approximately equal to double the thickness of the board for a purpose hereinafter set forth. In said Fig. 4, merely because the blank is made by multiple in-line production methods, the double crease arrangement 39-40 which is in alignment, is continued through the extensions 41 and 42, as at 47 and 48, although it is not necessary to incorporate the same therein.

When the fruit packer receives the blank with ends 17 and 18 joined, he arranges it in rectangular, tubular relation and then he turns inwardly toward each other, the divided end bottom extensions 41 and 42, then each of the flaps 37 and 38 are bent relative to the supporting flaps 33 and 34, and then the portions 37 and 38 are passed upwardly through the slot portions 45 and 46, which are now in alignment and then the portions 37 and 38 lie abutting each other throughout their entire length and face, the portions marked 39 and 40 being in substantial abutting relation. The portions 37 and 38 then are turned back upon the portions 33 and 34, respectively, which locks the extensions 41 and 42 between the portions 34 and 38, and 33 and 37, all as shown in Fig. 1.

Previous to turning the two extensions 37 and 38 from the perpendicular back to the horizontal, as it were, the wire handle is positioned so that the ends 12 lie between the adjacent ends of the extensions 41 and 42, these together with the portions 33 and 37, and 34 and 38, form grooves or recesses 50 for nesting the handle end 12. The two divided sides 25 and 26 with the portion 11 of the handle nested in the holes 32 are then turned inwardly and downwardly, this being permitted because of the division 31 in the sides 25 and 26.

The end extensions 19 and 20 are turned downwardly and inwardly and folded back so as to lie parallel and abutting the supporting ends 15 and 16, respectively. The edges 51 and 52 of the portions 25 and 26 bear upon the portions 37 and 38 adjacent their edges 52 and 53, respectively. Also, the edge 54 of the extension 20 bears upon portions 37 and 38 adjacent the edges 57 and 58 thereof, respectively. The edge 55 of the extension 19 bears upon portions 37 and 38 immediately adjacent the edges 59 and 60 thereof, respectively. This limits the upward or opening movement of the two portions 37 and 38. The edges 59 of extension 19 cooperate with the adjacent edge 60 of extension 20 and edge 61 of extension 25 and the opposite edges 62 of ex-

tension 20 cooperate with the adjacent edge 63 of extension 25 and edge 64 of extension 26 to interlock the inner walls of the basket in basket formation.

The wire handle structure anchorage, as shown clearly in the several figures, is thus fully concealed and is primarily anchored at and by the base or bottom of the basket and the resulting basket may have a ventilated bottom and has all of its sides and bottom of dual wall structure. The intumed ends 12 of the wire handle, because they underlie the interior half bottoms and because said half bottoms are held down by the interior side walls and interior end walls into parallelism with the exterior half bottoms, prevent hinging action of the half bottoms 41 and 42 relative to their supporting walls, and the same is also prevented by the intumed portions 41 and 42 carried in the present instance, by the end walls 15 and 16 and nested between the exterior and interior half bottom walls.

In Fig. 5 it will be noted that the multiple wall bottom is divided vertically and herein medianly and such division may be of such character that a slight space is provided between the half portions of the bottom thereby providing ventilation through the bottom, if, as and when desired or required.

In said Fig. 5 numerals of the one hundred series indicate like or similar parts. Note that there is a ventilating space A in the bottom structure.

While the invention has been described in great detail in the foregoing specification and several modifications thereof have been specified, such detailed description is to be considered illustrative and not restrictive in character, and such modifications, together with others which will readily suggest themselves to persons skilled in this art, are all considered to be within the broad scope of this invention, reference being had to the appended claims.

The invention claimed is:

1. A handled basket comprising solely a plural layer wall container, each side, end and bottom wall including at least an inner wall portion and an outer wall portion, and an overhead handle having ends interlockingly secured thereto in concealed relation, each handle end having a depending portion substantially of side wall height and nested between the inner and outer wall portions thereof, each depending portion terminating in an elongated intumed end nested between the inner and outer wall portions of the bottom wall.

2. A handled basket comprising a plural layer wall container, each side, end and bottom wall including at least an inner wall portion and an outer wall portion, and an overhead handle having depending portions positioned between the inner and outer portions of opposite side walls, each depending portion terminating in an intumed end nested between the inner and outer wall portions of the bottom wall.

3. A handled basket comprising a plural layer wall container, each side, end and bottom wall including at least an inner wall portion and an outer wall portion, an overhead handle having depending portions positioned between the inner and outer wall portions of opposite side walls, the depending portions terminating in intumed ends nested between the inner and outer wall portions of the bottom wall, and means located between and concealed by the inner and outer wall portions of the bottom wall and preventing

relative lateral movement of said ends to an appreciable degree.

4. A handled basket comprising a plural layer wall container, each side, end and bottom wall including at least an inner wall portion and an outer wall portion, an overhead handle having depending portions positioned between the inner and outer wall portions of opposite side walls, the depending portions terminating in inturned ends nested between the inner and outer wall portions of the bottom wall, and means located between the inner and outer wall portions of the bottom wall and forming a locating recess for end reception.

5. A handled basket comprising a plural layer wall container, each side, end and bottom wall including at least an inner wall portion and an outer wall portion, an overhead handle having depending portions positioned between the inner and outer wall portions of opposite side walls, the depending portions terminating in inturned ends nested between the inner and outer wall portions of the bottom wall and means located between the inner and outer wall portions of the bottom wall preventing relative lateral movement of said ends to an appreciable degree, said lateral movement preventing means being integral with the container.

6. A handled basket comprising a plural layer wall container, each side, end and bottom wall including at least an inner wall portion and an outer wall portion, an overhead handle having depending portions positioned between the inner and outer wall portions of opposite side walls, the depending portions terminating in inturned ends nested between the inner and outer wall portions of the bottom wall, and means located between the inner and outer wall portions of the bottom wall for retaining the same in bottom-forming position and forming a locating recess for end reception, said means and container comprising a single blank, said means being directly connected to the container end walls intermediate the handle-including sides.

7. A container structure formed from a single blank including outer side wall members, outer end members, exterior half bottoms each secured to one member of a pair of said members, interior half bottoms secured to the exterior half bottoms, interior end wall members secured to the exterior end wall members, interior side wall members secured to the exterior side wall members, all exterior, side and end wall members being successively arranged, all interconnected interior wall members being of individual character, and means upon each member of the other pair of said members and nestable between the exterior and interior half bottoms at opposite ends thereof and an overhead handle associated therewith and having downwardly directed portions, each portion nesting between immediate connected adjacent exterior and interior side wall members, the connection between the last-mentioned wall members having an aperture for reception of the downwardly directed portion, and an anchorage arrangement for each nestable downwardly directed portion of the handle including an inturned end nestable between the inner and outer half bottoms.

8. A container structure formed from a single blank including outer side wall members, outer end members, exterior half bottoms each secured to one member of a pair of said members, interior half bottoms secured to the exterior half bottoms, interior end wall members secured to the exterior

end wall members, interior side wall members secured to the exterior side wall members, all exterior, side and end wall members being successively arranged, all interconnected interior wall members being of individual character, and means upon each member of the other pair of said members and nestable between the exterior and interior half bottoms at opposite ends thereof and an overhead handle associated therewith and having downwardly directed portions, each portion nesting between immediate connected adjacent exterior and interior side wall members, the connection between the last-mentioned wall members having an aperture for reception of the downwardly directed portion, and an anchorage arrangement for each nestable downwardly directed portion of the handle including an inturned end nestable between the inner and outer half bottoms, each of the side wall inner members including a division from its free edge opposite the aperture and extending to the aperture for the purpose set forth.

9. A container structure formed from a single blank including outer side wall members, outer end members, exterior half bottoms each secured to one member of a pair of said members, interior half bottoms secured to the exterior half bottoms, interior end wall members secured to the exterior end wall members, interior side wall members secured to the exterior side wall members, all exterior, side and end wall members being successively arranged, all interconnected interior wall members being of individual character, and means upon each member of the other pair of said members and nestable between the exterior and interior half bottoms at opposite ends thereof and an overhead handle associated therewith and having downwardly directed portions, each portion nesting between immediate connected adjacent exterior and interior side wall members, the connection between the last-mentioned wall members having an aperture for reception of the downwardly directed portion, and an anchorage arrangement for each nestable downwardly directed portion of the handle including an inturned end nestable between the inner and outer half bottoms, each of the side wall inner members including a division from its free edge opposite the aperture and extending to the aperture for the purpose set forth, said means last mentioned extending toward each other and terminating short of meeting engagement to form a handle-locating recess between the said means and the inner and outer half bottoms for nesting the handle inturned end therein.

10. A handled basket comprising a plural layer wall container, including side and end walls and half bottom walls, each of the walls including an inner and an outer wall portion, and an overhead handle having depending portions positioned between the inner and outer wall portions of an opposite pair of walls, each depending handle portion terminating in an inturned end said end nesting between the inner and outer wall portions of the adjacent half bottom wall, the half bottom walls extending from the said first-mentioned pair of opposite walls towards each other and providing basket ventilation between confronting adjacent edges of said half bottom walls.

11. A handled basket comprising a plural layer wall container, including side and end walls and half bottom walls hingedly connected to a pair of opposite walls, each of the plural layer walls including an inner and an outer wall portion, and

an overhead handle having depending portions positioned between the inner and outer wall portions of an opposite pair of walls, each depending handle portion terminating in an inturned end, said end nesting between the inner and outer wall portions of the adjacent half bottom wall, the half bottom walls extending from the first-mentioned pair of opposite walls, said inturned ends assisting in maintaining said half bottoms in bottom-forming position.

- 10 12. A handled basket comprising a plural layer wall container, including side and end walls and half bottom walls hingedly connected to a pair of opposite walls, each of the plural layer walls including an inner and an outer wall portion, and an overhead handle having depending portions positioned between the inner and outer wall portions of an opposite pair of walls, each depending handle portion terminating in an inturned end, said end nesting between the inner and outer wall portions of the adjacent half bottom wall, the half bottom walls extending from the said first-mentioned pair of opposite walls, said inturned ends assisting in maintaining said half bottoms in bottom-forming position, and dual means integral with each of the intermediate pair of walls and nested between the inner and outer wall portions of the half bottoms and of a length short of meeting engage-

ment for forming a locating recess therewith for the handle inturned ends to prevent relative lateral movement thereof to an appreciable degree.

13. In a container structure of the class described, a single blank including outer side wall members, outer end members, exterior half bottoms each secured to one member of a pair of said members, interior half bottoms secured to the exterior half bottoms and foldable back above the exterior bottom and of a width sufficient to insure bottom supporting wall engagement and of a length approximately equal to the length of the supporting wall, interior end wall members secured to exterior end wall members and of a depth to engage the adjacent interior half bottoms, interior side wall members secured to the exterior side wall members and of a depth to engage the adjacent interior half bottoms, all exterior side and end wall members being successively arranged, all interconnected interior wall members being of individual character, and means upon each member of the other pair of said members and nestable between the exterior and interior half bottoms at the opposite ends thereof, said interior walls locking the interior half bottoms to the exterior half bottoms.

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