March 27, 1956 W. G. ANDERSON, JR 2,739,735

BOTTLE CARRIER

Filed Sept. 3, 1953 3 Sheets-Sheet 1

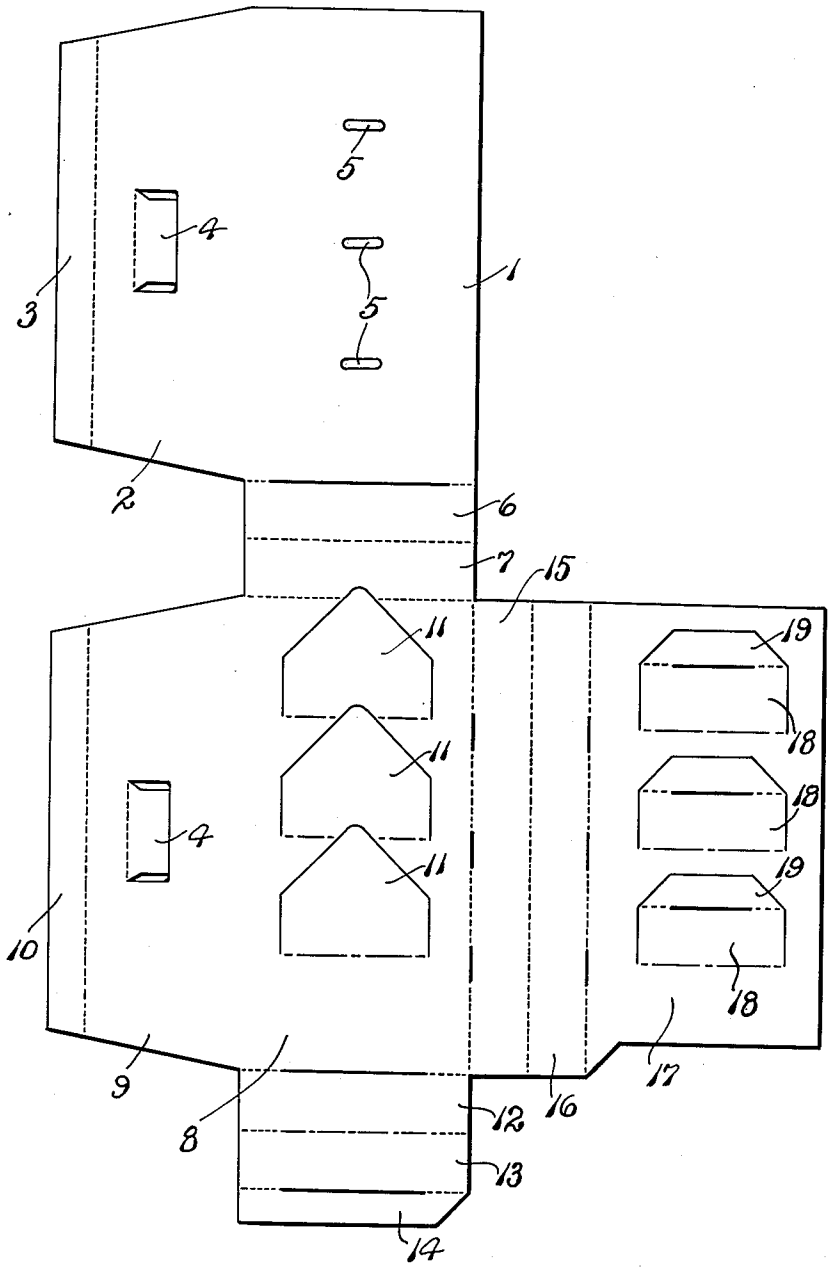


FIG. 1

INVENTOR.
WILBUR G. ANDERSON, JR.
BY
Frank E. Liverance, Jr.
ATTORNEY

March 27, 1956 W. G. ANDERSON, JR 2,739,735

BOTTLE CARRIER

Filed Sept. 3, 1953 3 Sheets-Sheet 2

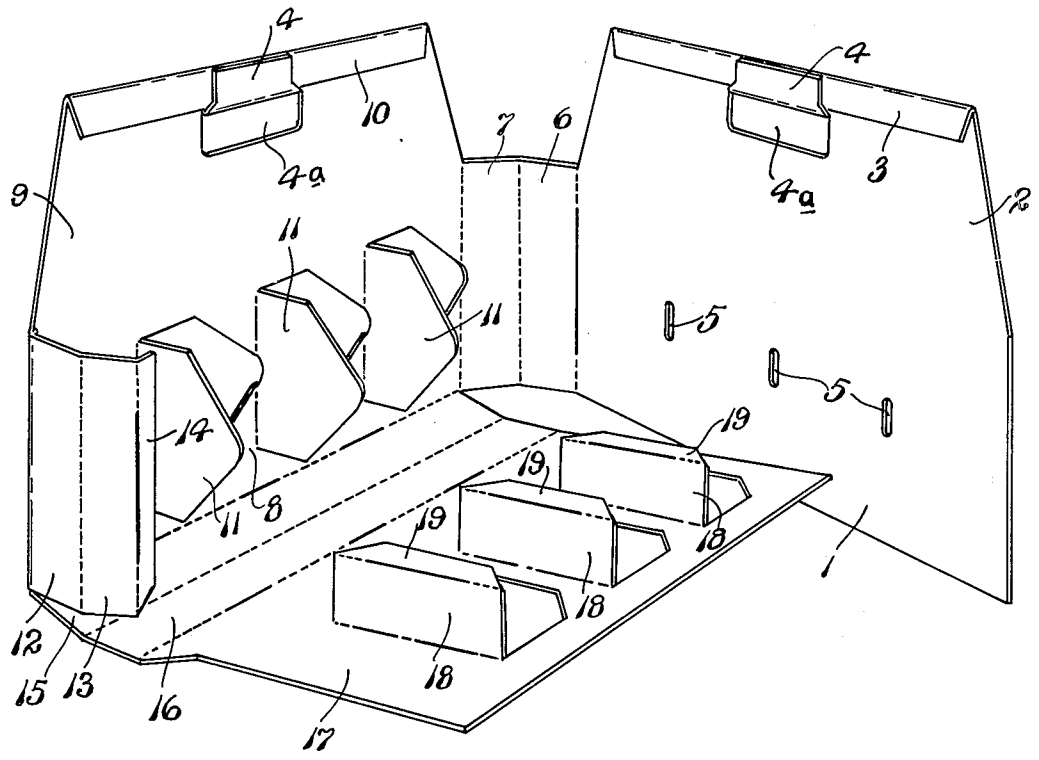


FIG. 2

INVENTOR.
WILBUR G. ANDERSON, JR.
BY
Frank E. Liverance, Jr.
ATTORNEY

March 27, 1956 W. G. ANDERSON, JR 2,739,735

BOTTLE CARRIER

Filed Sept. 3, 1953 3 Sheets-Sheet 3

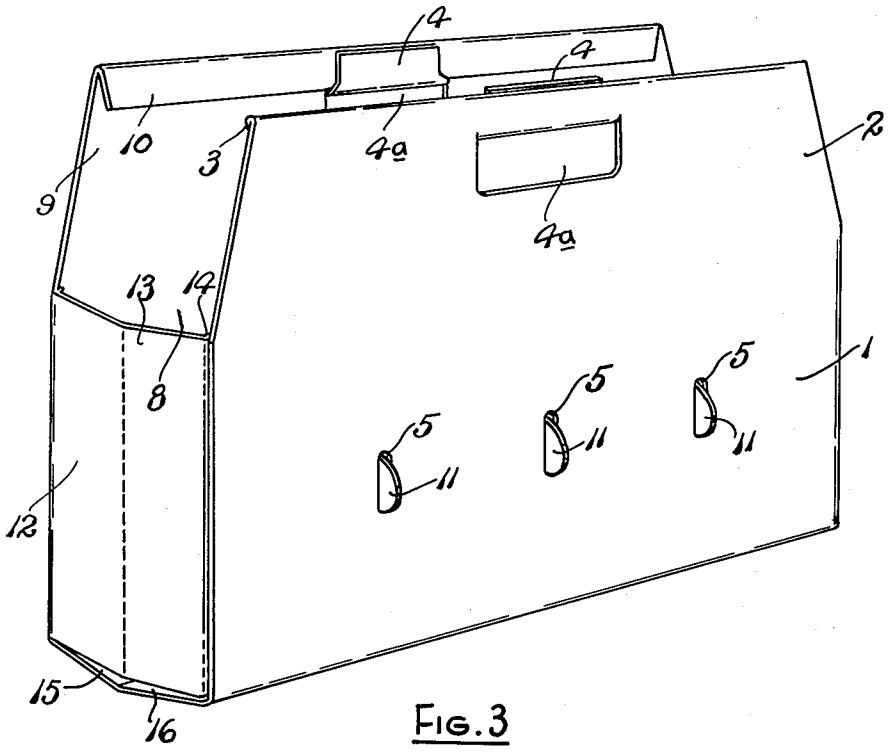


FIG. 3

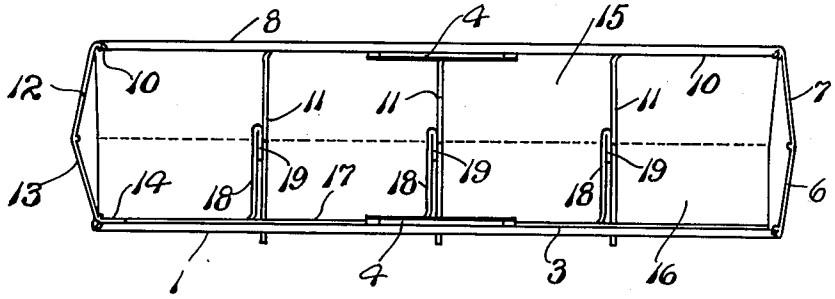


FIG. 4

INVENTOR.
WILBUR G. ANDERSON, JR.
BY
Frank E. Liverance, Jr.
ATTORNEY

United States Patent Office 2,739,735 Patented Mar. 27, 1956

2,739,735

BOTTLE CARRIER

Wilbur G. Anderson, Jr., Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan

Application September 3, 1953, Serial No. 378,284

1 Claim. (Cl. 220—113)

The present invention relates to a novel, economically produced and very useful holder and carrier for bottles. In practice it has been made for holding and carrying four quart bottles filled with liquid contents, though it is of course to be understood that the number and sizes of the bottles may be varied without departing from the invention.

It is a primary object and purpose to provide a bottle carrier and holder of the type noted which is able to carry considerable weights of bottles and contents, and at the same time be produced from thin paperboard stock. The bottle holder and carrier is formed from a single blank of such material which, folded along proper fold lines, and with partitions struck from the blank may, in the final operation in producing the carrier and holder of my invention, be glued or cemented and secured in place thereby providing the bottle carrier and holder in large quantity production at low cost, and with a structure of ample strength and durability to serve the purposes for which it has been made.

An understanding of the invention may be had from the following description, taken in connection with the accompanying drawings, in which,

Fig. 1 is a plan of the blank from which the bottle carrier of my invention is made.

Fig. 2 is a perspective view showing the blank partially folded to form in the process of completing the carrier and holder as it is to be made and used.

Fig. 3 is a perspective view of the completed bottle carrier and holder, and

Fig. 4 is a plan view thereof.

Like reference characters refer to like parts in the different figures of the drawings.

A sheet of relatively thin paperboard stock is cut and formed with suitable dies to have the outline shown in Fig. 1. It includes a side section 1 which will be of rectangular form, which is extended in the same plane upwardly in a section 2 which in the completed holder and carrier will, with the side 1, be located in the same vertical plane. The upper edge portion of said extension 2 (Fig. 2) is turned back upon itself in a relatively narrow strip 3 which is glued or cemented securely at the inner side of the upper end of the extension 2. Also in the extension 2 immediately below the strip 3 a tab or flap 4 of generally rectangular shape is cut at three sides leaving the upper side integral with the section 2, so that the tab 4 may be turned upwardly as in Fig. 2, the opening 4*a* left being for the passage of the fingers of the hand in carrying the bottle holder and carrier. In the body of the side 1 a number of spaced vertical slots 5, closed at both ends, are cut as shown, the number of slots corresponding to the number of transverse partitions used.

At one end of the side 1 is an integral end to the holder and carrier, including two integral side by side sections 6 and 7, each of the height of the side 1. From a vertical edge of the section 7 a second side 8 extends, integral therewith, which likewise has an upper extension 9 in the same plane with such side 8, similar to the upper

extension 2 of the side 1. Such upward extension 9 is provided with an integral band 10, identical with the band 3 previously described and glued or cemented in place in the same manner at the inner side of extension 9. The extension 9 is also formed with the flap 4 turned upwardly leaving a second opening 4*a* which is directly opposite the like opening 4*a* in extension 2.

From the body of the side 8 a plurality of partition members 11 are struck, being severed at three sides and integral at their outer vertical edges with said side 8, being adapted to be bent at right angles to the plane of the side 8 inwardly as shown in Fig. 2. In the structure illustrated three of such partitions are shown, the number of course being variable as a matter of choice without departing from the invention.

At the other end of the vertical side 8 are integral end sections 12 and 13 of the same height and having other like dimensions as the sections 6 and 7. At the outer edge of the section 13 is an integral flap 14. The bottom of the bottle holder and carrier is provided by two integral side by side sections 15 and 16 of substantially the same width as the sections 6, 7, 12 and 13. One of said sections 15 is integral with the lower edge of the side 8. From the other section 16 an integral rectangular member or section 17 extends upwardly at the inner side of the side 1. Its dimensions are substantially the same as that of the side 1 except at one end where it is recessed so that when said member 17 is turned upwardly and lies at the inner side of the side 1, the flap 14 may be turned inwardly to lie against the inner side of the side 1 filling the space left at the recessed end of the section 17 (Fig. 4).

The generally rectangular member or section 17 has three integral partition attached members, severed at three sides but integral at their outer vertical edges with said member 17, being adapted to be turned inwardly at right angles to section 17. Each of the parts 18 at its inner free edge is formed with a flap 19. Between the end section 6 and adjacent side 1 to which connected, between the end section 7 and the adjacent end section 8 to which connected, between the end section 12 and the opposite end of the side 8 to which connected, between the bottom section 15 and the lower edge of the side 8 to which connected, and between the member 17 and the adjacent end of the section 16 to which integrally connected the material may be scored or provided with fold lines as indicated in dash and dot lines for such purposes. Also the outer edges of the partitions 11 and the outer edges of the parts 18 have similar scored or fold lines and the flaps 14 and 19 where connected with the section 13 and the parts 18 are scored at their points of integral connection for the purpose of readily bending or folding in shaping the blank in Fig. 1 to the completed holder and carrier in Fig. 3.

In Fig. 2 the process of folding the blank is partially shown, that is, the side 8 is bent upwardly from the bottom section 15 substantially at right angles thereto, the end section 12 with its attached section 13 and the flap 14 are turned inwardly, the connected end sections 7 and 6 turned inwardly and the member 17 is turned upwardly about its integral connection with the section 16 and, finally, the side 2 is turned to lie against the outer side of the member 17. When this is done the flap at 14 lies against the inner side of the vertical side 1 in the same plane with the member 17, the reduced end portions of the partitions 11 extend through the slots 5 and the sections 18 with their end flaps 19 lie alongside the partitions 11 (Fig. 4). The members 17 and the flaps 14 are securely cemented or glued to the inner side of the side 1. The end flaps 19 on the partition members 18 are bent back upon their attached members 18 and bear at their outer sides when thus bent back against

the adjacent sides of the partitions 11 to which they are glued or cemented.

With such structure, a holder and carrier for bottles is provided which, when three partitions are used, makes four compartments aligned with each other, in each of which a bottle filled with its liquid contents is adapted to be placed. The bottom is supported by the vertical side 8 and the member 17 which in turn is permanently secured to the other vertical side 1. The partitions are fixed in position, holding the vertical sides 1 and 2 substantially rigid with respect to each other. The extensions 2 and 9 in the same planes with the sides 1 and 2 extend upwardly therefrom and at their upper edge portions may be grasped through the openings 4*a*.

The ends provided by the sections 6 and 7 and 12 and 13, and the bottom provided by the sections 15 and 16, so far as the utility of the completed bottle holder and carrier is concerned could be each of a single rectangular form without longitudinal folding lines midway between the longitudinal edges thereof as shown. Such folding or bending lines are made in the actual holder and carrier which has been produced for facility in gluing or cementing the parts which are to be attached together, which otherwise would be more difficult to obtain.

The bottle holder and carrier which has been described as to structure is amply strong, rigid and durable though made of relatively light paperboard. Economy is obtained and a carrier and holder particularly useful for the larger bottles, such as quart bottles which are used for many beverages, has been made which has proved to be very successful and satisfactory in production and service.

The invention is defined in the appended claims and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

A bottle holder and carrier comprising, spaced parallel vertical rectangular sides, ends and bottom of bendable material, said ends having integral connection to and at the end edges of one of said sides, and said bottom at one longitudinal edge to the lower edge of the same side, a generally rectangular member integrally connected to the bottom at the opposite longitudinal edge thereof located at and substantially covering the inner side of the other of said sides and permanently secured thereto, one of said ends having integral connection to said other side at a vertical end thereof, and the other of the ends having an edge portion lying against the inner side of said other side and permanently secured thereto, spaced partitions integrally connected with the first mentioned side extending across the holder and carrier to and through said other side, and members, one for each partition integrally connected with said rectangular member, extending to and permanently connected one with each partition between the ends thereof, said ends and bottoms being longitudinally bendable midway between longitudinal edges thereof, and said partitions and connected members foldable on vertical lines at their integral connections to the first member and said rectangular member, respectively, for collapse of said holder and carrier to flat form.

References Cited in the file of this patent

UNITED STATES PATENTS

1,298,635	Allen	Apr. 1, 1919
1,574,520	Singer	Feb. 23, 1926
2,015,413	Snyder	Sept. 24, 1935
2,337,199	Holy	Dec. 21, 1943
2,529,595	Cody	Nov. 14, 1950
2,537,617	Becker	Jan. 9, 1951
2,575,654	Casler	Nov. 20, 1951
2,662,683	Buttery	Dec. 15, 1953