April 15, 1941. J. S. WHILEY 2,238,545

CARTON FOR TUMBLERS

Filed July 28, 1939 2 Sheets-Sheet 1

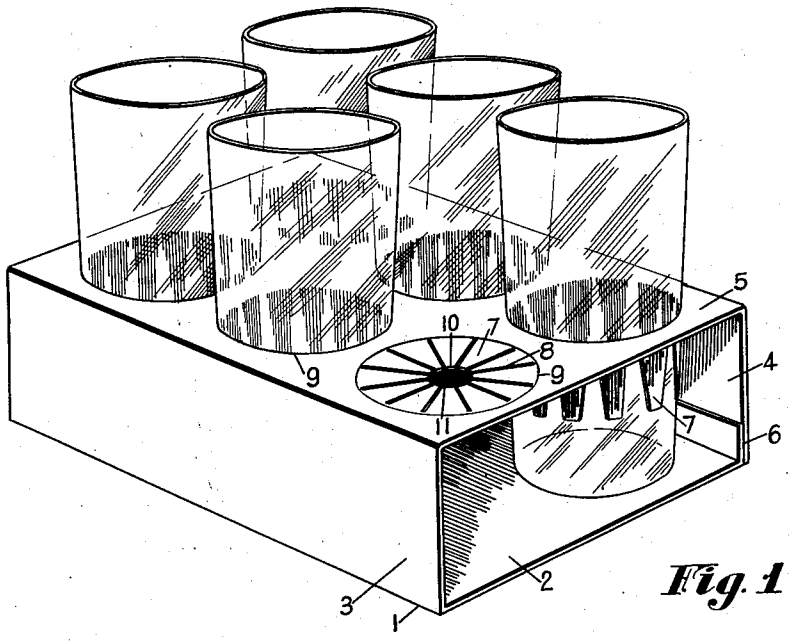


Fig. 1

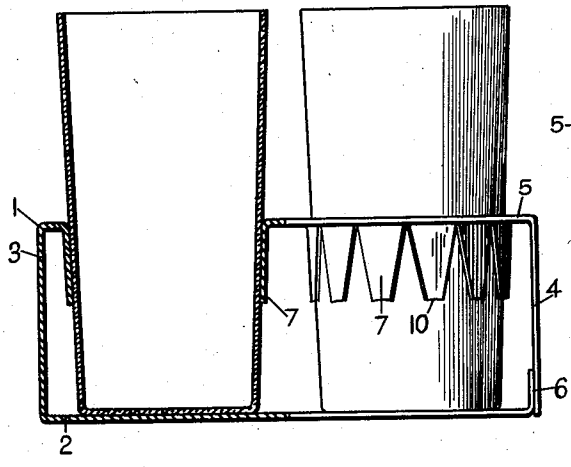


Fig. 2

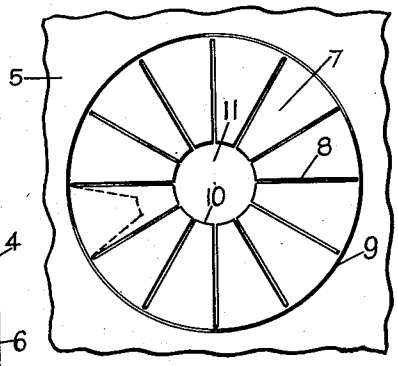


Fig. 3

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CARTON FOR TUMBLERS

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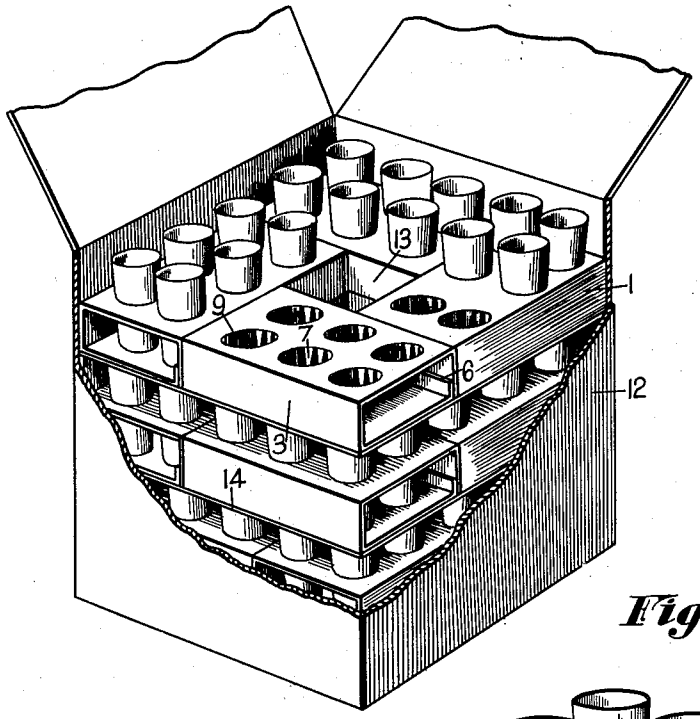


Fig. 4

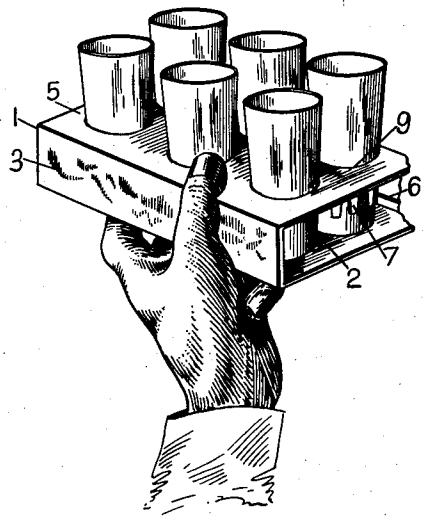


Fig. 5

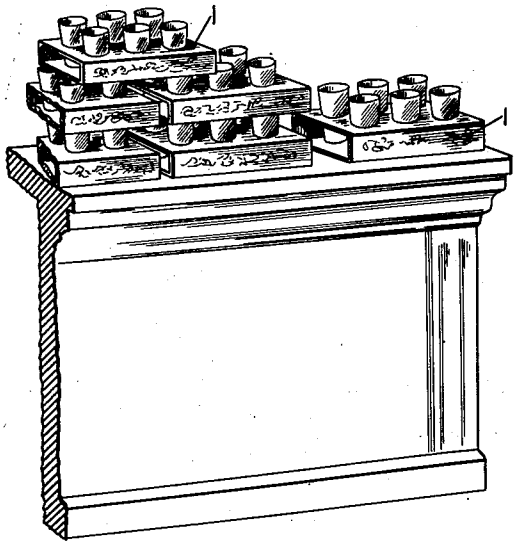


Fig. 6

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UNITED STATES PATENT OFFICE

2,238,545

CARTON FOR TUMBLERS

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Application July 28, 1939, Serial No. 287,105

2 Claims. (Cl. 206—65)

My invention relates to a carton for tumblers. It has to do, more particularly, with a carton formed of pasteboard or similar material which is particularly useful for holding glass tumblers to facilitate shipping and display thereof. However, the carton may be used for holding articles other than glass tumblers.

At the present time, it is customary to ship glass tumblers in large cartons having removable pasteboard partitions arranged in the carton to form sockets for receiving and holding the various tumblers upright. When it is desired to display the tumblers, they are usually removed from the shipping carton and a number of them are nested and placed on display shelves. Nesting the tumblers in this manner for display purposes causes a large percentage of breakage. Also, it is difficult to wrap the tumblers when they are sold. Display cartons have been provided wherein the tumblers are not disposed upright but lie on their sides. However, these cartons are expensive and do not display the tumblers attractively since it is desirable for them to be disposed upright so that the prospective customer can see how they will appear in actual use. Also, with this type of display carton, it is difficult to pack a large number of the display cartons in a large shipping carton without danger of breakage.

One of the objects of my invention is to provide a carton for holding a number of articles such as glass tumblers so that they can be easily and attractively displayed without danger of breakage.

Another object of my invention is to provide a carton of the type indicated which will hold the tumblers upright and which is of such a nature that it may be readily wrapped.

Another object of my invention is to provide a carton of the type indicated which is of such a nature that a large number of such cartons may be disposed in a large shipping carton and the tumblers will be held in such a manner that they will be protected from breakage.

Another object of my invention is to provide a carton of the type indicated in the preceding paragraph which is of such a nature that a number of these cartons may be readily disposed in the large shipping carton and will be so arranged that they may be easily lifted therefrom.

Another object of my invention is to provide a carton of the type indicated which is very simple and may be manufactured at a very low cost.

The preferred embodiment of my invention is illustrated in the accompanying drawings wherein similar characters of reference designate corresponding parts and wherein:

Figure 1 is a perspective view of a carton made according to my invention.

Figure 2 is a view partly in end elevation and partly in transverse section of the structure illustrated in Figure 1.

Figure 3 is a plan view of one of the article receiving portions of the carton.

Figure 4 is a perspective view, partly broken away, showing how a number of the cartons of the type illustrated in Figure 1 may be disposed in a large shipping carton.

Figure 5 is a view illustrating how a carton with a number of articles therein may be readily handled.

Figure 6 is a perspective view illustrating how a plurality of cartons may be stacked for display purposes.

With reference to Figures 1, 2 and 3, I have shown a carton 1 made according to my invention. This carton is formed of a single strip of material, such as pasteboard, which is bent in such a manner as to form a hollow structure of rectangular cross-section consisting of a bottom wall 2, side walls 3 and 4 and a top wall 5. The ends of the strips of material are suitably joined along a seam 6.

The top 5 has a plurality of article receiving sockets formed therein. I have shown 6 of these sockets but it is to be understood that any desired number may be provided. To form each of these sockets, the sheet of material before folding is subjected to the proper operations to form a plurality of substantially V-shaped tabs 7. These tabs 7 extend radially inwardly and are separated by radial slits 8 in the material. The tabs are joined at their outer ends to the body portion of the material along a weakened circular line 9. The tabs 7 terminate at their inner ends at a point 10 so that a circular opening 11 is formed.

Before an article is placed in the socket, the tabs will be in the position indicated in Figure 1 where the one tumbler has not yet been inserted in the carton. The tumbler may be readily inserted in the carton merely by positioning the bottom thereof on the upper surfaces of the tabs and then forcing the tumbler downwardly. This will cause all of the tabs to be bent downwardly along the line 9 and outwardly. The tabs 7 will then extend downwardly, as also illustrated in Figure 1 and in Figure 2 and will embrace the side of the tumbler forming a sleeve-like socket.

The bottom of the tumbler will rest on the upper surface of the bottom wall 2 of the carton. It will be understood that the carton will hold the number of tumblers tightly and will support them upright.

In Figure 4, I illustrate how a number of these cartons may be disposed in a large shipping carton 12. The shipping carton will be of square cross section. The cartons 1 may be arranged as indicated with one end of each carton 1 contacting with the adjacent side of the shipping carton 12 and with the other end of each carton 1 contacting with one side of the adjacent carton 1. The other side of each carton 1 will contact with the adjacent side of the carton 12. With this arrangement, a square socket 13 will remain at the center. This will permit the hand to be inserted in order to lift the first carton 1 from the shipping carton 12. Removable horizontal partitions 14 of cardboard may be used for separating the various rows of the cartons 1.

In Figure 5 I illustrate how easily a carton 1 containing a number of the articles may be handled. In Figure 6 I illustrate how a number of these cartons may be stacked one upon the other for display purposes.

It will be apparent from the above description that I have provided a carton for holding glass tumblers so that they can be easily and attractively displayed without danger of breakage. The tumblers will be held upright so that they will appear as they do in actual use. The display carton is of such a nature that a large number of them may be disposed in a large shipping carton and the tumblers will be protected from breakage. The display cartons are of rectangular outline and may be disposed in a square shipping container in such a manner that a socket is formed at the center which facilitates lifting of the first display carton from the shipping carton. The display carton is simple and will be inexpensive to manufacture.

Various other advantages will be apparent from the drawings and the following claims.

Having thus described my invention, what I claim is:

1. A package comprising a container of substantially square cross-section, a plurality of similar display cartons disposed in said container and being arranged in superimposed layers, four to a layer, each of said cartons being of rectangular form and of a dimension such that the combined length plus the width of the carton equals the width of the inner wall of the container, the cartons of each layer being arranged in such a manner that one end of each carton contacts with an adjacent side of said container and the other end contacts with one side of a juxtaposed carton so that an opening will remain at the center of the layer, each of said cartons having openings for receiving glass tumblers or similar articles, said tumblers being disposed in said openings and extending above the top of the cartons so that the layers of cartons will be held in spaced relationship to permit the entrance of the fingers beneath the cartons of a layer for grasping a carton when a hand is inserted in said central opening.

2. A package comprising a container of substantially square cross-section, a plurality of similar display cartons disposed in said container and being arranged in superimposed layers, four to a layer, each of said cartons being of rectangular form, the cartons of each layer being of such size relative to the perimetrical size of said container and being so arranged relative to each other that an opening will remain at the center of the layer, each of said cartons having openings for receiving glass tumblers or similar articles, said tumblers being disposed in said openings and extending above the top of the cartons so that the layers of cartons will be held in spaced relationship to permit the entrance of the fingers beneath the cartons of a layer for grasping a carton when a hand is inserted in said central opening.

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