Jan. 31, 1967 E. H. CARTER 3,301,386

DISPLAY CONTAINER AND CARRIER

Filed Nov. 25, 1964

FIG. 1

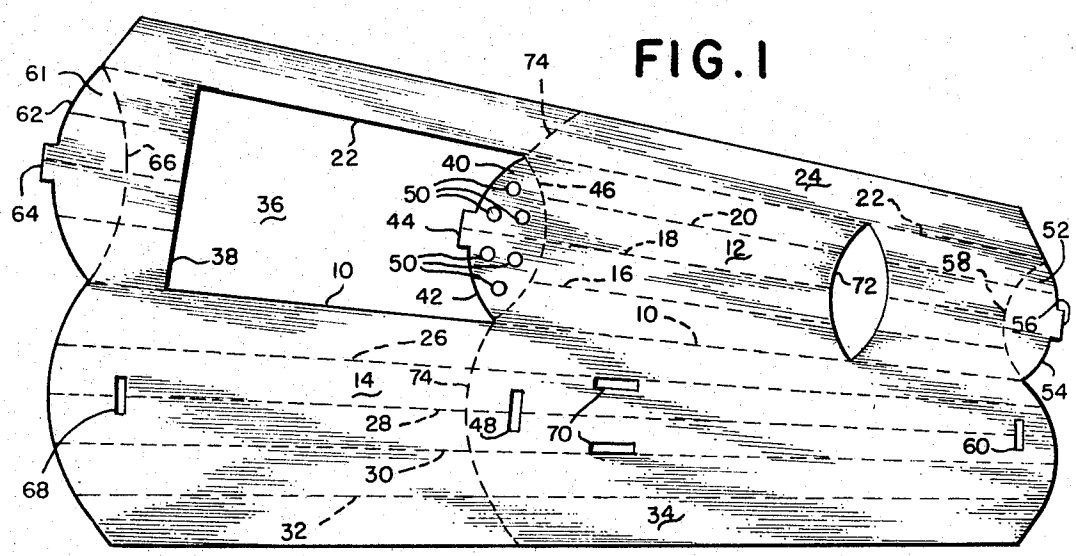


FIG. 3

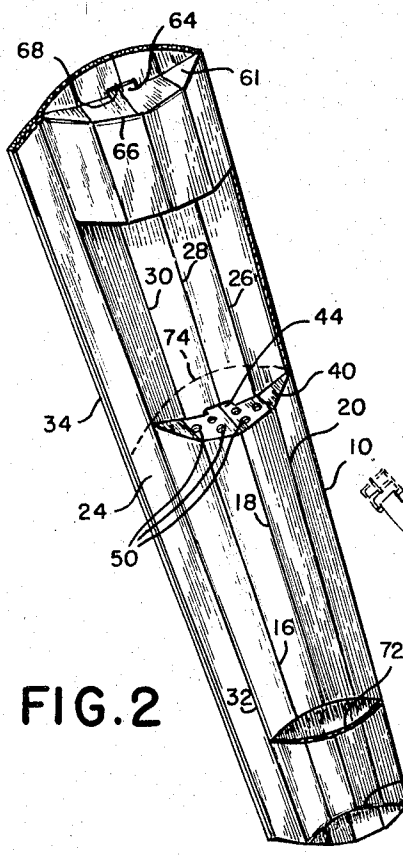


FIG. 2

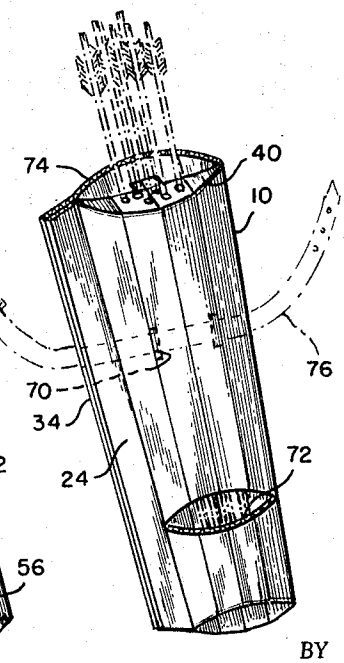
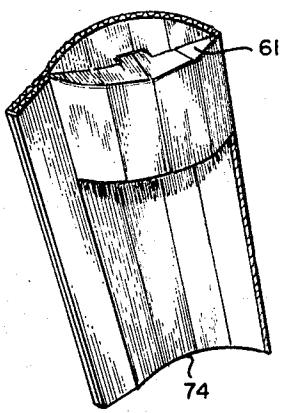


FIG. 4



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DISPLAY CONTAINER AND CARRIER

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This invention relates generally to containers and has particular reference to containers of the character which are commonly employed for shipping and displaying articles for sale, and in particular, to a shipping and display container which can be converted to a quiver for play purposes.

Generally in the marketing and sale of arrows, the arrows must be packaged in a spaced relation to protect the feathers and are usually displayed for sale while still in the container. Once the set of arrows has been purchased, the container is discarded and the arrows are then placed in an appropriate carrier such as a quiver. Two separate containers are, therefore, required in order to sell and use the arrows.

One of the primary objects of the present invention is to provide a shipping and display container for arrows which can be converted to a quiver.

Another object of the present invention is to provide a convertible display container and carrier for arrows which is simple to manufacture and easy to assemble.

Another object of the present invention is to provide a convertible display container and quiver which can be formed from a single blank of material.

Still another object of the present invention is to provide a display container and quiver in which the arrows are maintained in a spaced relation both for display purposes and in the quiver.

A further object of the present invention is to eliminate the necessity of using two separate containers for displaying and using the arrows.

These objects are accomplished by cutting and scoring a single blank of corrugated paperboard into a pair of similar panels which can be folded to a back-to-back relation and the exposed edge of the blank secured together by an appropriate adhesive. Separator sections are provided at the top near the center and at the bottom of one of the panels and are folded inwardly into engagement with the inside surface of the opposite panel so that the panels will be bowed outwardly along score lines provided on each of the panels. A tubular container is thus formed which is closed at the bottom and the top. The center separator section is provided with a number of holes for separating the arrows which are inserted therein. An opening is provided in one of the panels of the blank so that the arrows are visible from outside of the container. The container will protect the arrows during shipment and storage and can be set up on a display counter and appropriately marked or colored for display purposes. A perforate line is provided transversely to the longitudinal axis of the back panel above the center separator section so that the upper portion of the container can be easily torn from the lower portion, leaving the top of the arrow extending upward in exposed relation to the bottom of the container. The bottom portion can be used as a quiver by inserting a belt through a pair of slots which are provided in the back panel.

It should be apparent that assembling the container merely requires folding the two panels along their hinge line and applying an adhesive to the outer edges of the panels to form the tubular container. The separators are folded inwardly to open up the center of the container and it is then ready for use. To convert the container to a quiver, the top portion is torn off of the container.

Other objects and advantages of the present invention will become more readily apparent from the following detailed description when read in connection with the accompanying drawings, in which:

FIG. 1 is a plan view of the blank which can be folded into the container.

FIG. 2 is a perspective view of the container after it has been folded for use as a display container.

FIG. 3 is a view of the lower portion of the carton which can be used as a quiver.

FIG. 4 is a perspective view of the portion of the carton which has been removed.

Referring more particularly to the drawings, the carton blank shown is divided by score line **10** into elongate front and back panels **12** and **14**. The panels are both narrow at the bottom and wide at the top and are substantially identical in their outer dimensions. Both the front and back panels are provided with a number of diverging score lines which divide the panels into segmental flat sections. Score lines **16**, **18** and **20** are outwardly folding score lines so that the front panel can be curved outwardly. Score line **22** is an inwardly folding score line which defines a longitudinally extending narrow connecting edge **24**. Score lines **26**, **28** and **30** in the back panel are outwardly folding score lines so that the back panel can also be curved outwardly. Score line **32** is an inwardly folding score line which defines a longitudinally extending narrow connecting edge **34** which is secured to edge **24** to hold the panels together.

The upper portion of the front panel is cut out, leaving an opening **36** defined by crease line **22**, crease line **10** and top edge **38**. The bottom of the opening is formed by separator section **40** which has an upper curved edge **42** having center tab **44** extending upward therefrom. A curved score line **46** is provided on the lower end of the separator so that it can be folded along said score line inwardly into engagement with the back panel. Slot **48** is provided in the back panel to receive tab **44** and hold the separator section in position. This separator section is located above the center of the container. A number of holes **50** are provided in this separator section to separate the arrows which are inserted and displayed in the container.

On the lower narrow end of the front panel, bottom separator section **52** is provided which is defined by an outer, curved edge **54** interrupted by tab **56** and score line **58**. The bottom separator section is folded inwardly along score line **58** against the back panel. Slot **60** is provided in the back panel for engagement with tab **56**.

Upper or top separator section **61** is provided across the top of the front panel and is defined by outer curved edge **62** interrupted by tab **64** and a curved score line **66** which extends across the face of the front panel so that the top separator section can be folded inwardly into engagement with the back panel. Slot **68** is provided in the back panel for engagement with tab **64**. Once all of the separator sections have been folded and locked in position, the container will have a tubular, slightly elliptical cross section having a narrow bottom.

A pair of short longitudinal slots **70** are provided in the back panel below the center separator section and are used for reception of a strap or belt which can be used to carry the quiver after the top section has been removed from the display.

Referring to FIG. 2 it can be seen that the container is formed by folding along score line **10** and securing outer edges **24** and **34** together. The edges can be secured together in any number of ways, such as clipping the edges together or applying any suitable adhesive to the edges.

Hinge line **10** is then squeezed slightly toward the se-

cured adges 24, 34 to bow the front and back panels outwardly along the diverging score lines provided thereon. The intermediate or center separator section is folded inwardly along score line 46 until tab 44 engages slot 48 in the back panel. The bottom separator is folded inwardly along score line 58 until tab 56 engages slot 60 in the back panel. A tubular container is then formed which has an open top. Arrows are then placed in the container by inserting one through each of holes 50 in the center separator section until their ends engage the bottom separator section. After all of the arrows have been placed in the container, the top separator section is folded inwardly along score line 66 until tab 64 engages slot 68. The tops of the arrows will be visible through opening 36. A second opening 72 may be provided in the lower portion of the front panel so that the lower ends of the arrows can be seen when the container is on display.

When the container is to be converted to a quiver, the top portion of both the front and rear panels is torn off along dotted line 74 provided across the full width of the back panel and across securing edge 24 of the front panel. As seen in FIG. 3, a quiver is thus formed which can be carried by inserting belt 76 through slots 70 provided in the back panel.

It can be seen from the above that the container can be stamped from a single blank of corrugated material and assembled by merely securing edges 24 and 34 together. This is a very simple method of making the container and on securing the panels together and folding the separator sections inwardly into engagement with the corresponding slots in the back panel, a tubular construction is formed which is sufficiently strong to protect the arrows during storage and in transit. By providing the curved separating line across the back panel, the upper portion of the container can be removed by merely tearing the top panel off.

Although only one embodiment of the present invention has been shown and described, it will be apparent that various changes and modifications can be made without departing from the scope of the appended claims.

What is claimed is:

1. A container for arrows comprising a single blank of corrugated paperboard cut and scored to define elongate front and back panels of similar outer dimensions hingedly connected together,
- said panels being foldable into back-to-back relation,
- each panel being narrow at the bottom and diverging outwardly toward the top, and having a number of outwardly folding score lines running from the bottom to the top,
- said front panel having arcuate score lines to form separator sections which can be folded inwardly toward the back panel,
- said separator sections having an outer contour which produces a curvature in both panels,
- a center separator section in said front panel defined by an arcuate score line intermediate the top and bottom of said container,
- said center separator section including a number of spaced holes for supporting a corresponding number of arrows in a spaced relation and being foldable into engagement with said back panel, and
- means for securing the longitudinal edges of said panels together to form a tubular arrow container.

2. A container according to claim 1 wherein said back panel includes a tear line above said center separator section,
- whereby on removal of the portion of said container above said line, the remaining portion can be used as a quiver.

3. A container according to claim 2 wherein said back panel includes two longitudinal slots below said tear line to hold a carrier belt for said quiver.

4. A container according to claim 1 wherein said front panel has a section removed between the center separator and the top of the panel to expose the upper portion of said arrows.

5. A container which is convertible to a quiver comprising
- a front and rear panel hingedly connected together along one edge from the top to the bottom of the container and secured together along the other edge from the top to the bottom of the container,
- said front and rear panel having a number of outwardly folding score lines extending from the top to the bottom of the container,
- whereby said panels can be bowed outward from one edge to the other;
- separator means at the top and bottom of said container to hold said panels in the bowed relation,
- spacer means intermediate the top and bottom of the container to hold a number of arrows in a spaced relation within the container, and
- a perforate tear line across said rear panel between the top of the rear panel and the spacer means,
- whereby on tearing said rear panel along said tear line, the remaining bottom portion can be used as a quiver.

6. A container according to claim 5 wherein said front panel has a section removed to expose the arrows for display.

7. A container according to claim 5 wherein said spacer means comprises
- a section of said front panel folded inwardly into engagement with said rear panel and having a number of holes therein for supporting the arrows in a spaced relation.

8. A container comprising
- an elongate front panel and an elongate back panel, both having arcuate upper and lower edges,
- each of said panels diverging outwardly from the bottom to the top and being hingedly connected together along one longitudinal edge and secured together along the other longitudinal edge,
- each of said panels also including a number of outwardly folding score lines equally spaced from one edge to the other,
- elliptically shaped separator sections defined by the upper and lower arcuate edges of said front panel and arcuate score lines located at the top and bottom of said front panel,
- said sections being foldable into engagement with said back panel so that the front and back panels take on a curvature similar to the arcuate edges and score lines of said separator sections, said back panel including slots near the top and bottom and said separator sections including tabs in their outer arcuate edges which lock into said slots to hold the separator sections in the folded position, and a third separator section centrally located in said front panel and having an outer arcuate edge and being hingedly connected to said front panel by an arcuate fold line, said third section including a number of holes for holding a corresponding number of arrows in a spaced relation within said container.

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