Oct. 3, 1961 C. J. ZWICKEY 3,002,608

PACKAGE FOR ARROW HEADS

Filed Aug. 17, 1960

FIG. 1.

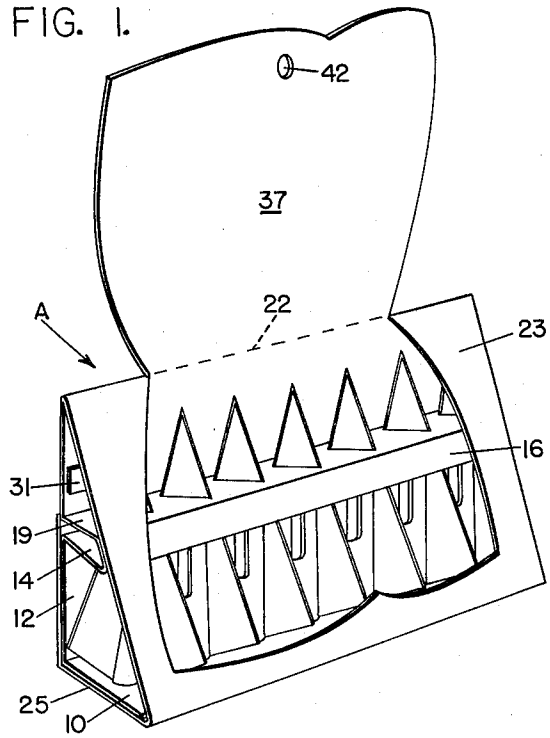
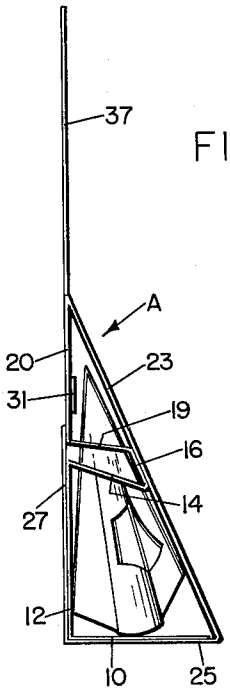


FIG. 4.



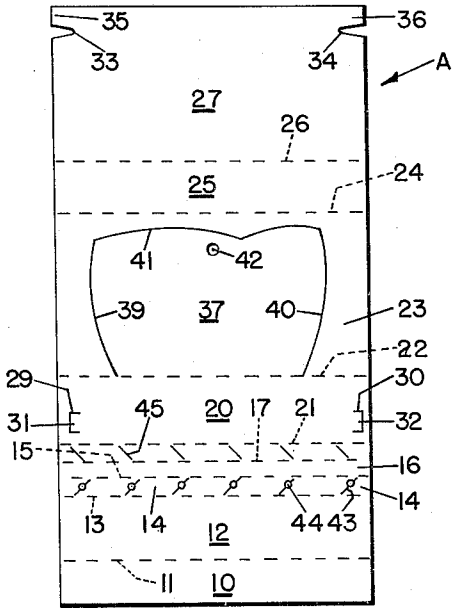
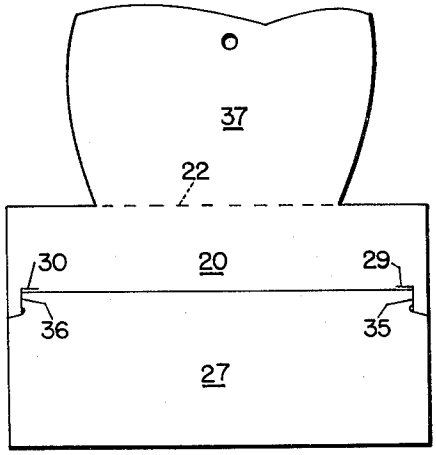


FIG. 2.

FIG. 3.



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PACKAGE FOR ARROW HEADS

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This invention relates to an improvement in package for arrow heads and the like and deals particularly with a package of generally triangular cross sections which may serve to both contain and display the tapered arrow head. The display of items such as arrow heads and the like is not a particularly simple task. If these items are placed upon a shelf or on a display rack, the structural features of the arrow heads are not easy to see. If these items are placed on vertical pegs so as to extend upwardly, the sharp points and cutting edges are exposed and can cause considerable accidental injury. If the arrow heads are placed in a rectangular carton of usual form, there is considerable waste space within the carton. It is an object of the present invention to avoid the previous difficulties by enclosing the arrow heads in a sleeve which is tapered to somewhat fit the general shape of the arrow head. During storage or shipment, the triangular carton remains in its triangular closed form. However, by cutting a portion of the front panel of the carton along continuous lines of separation which terminate at the fold line connecting the front and rear panels of the sleeve, a flap is provided which may be folded upwardly and act as a display panel and as a means of supporting the arrow heads where the major portion of them may be readily viewed.

A further feature of the present invention resides in the provision of a carton which comprises merely an elongated strip of paperboard or similar material which is cut and creased and which is folded along parallel lines of fold extending transversely of the length of the blank. The sleeve includes a bottom panel, a front panel, and a pair of rear wall panels which are secured in overlapping relation. The inner of the rear wall panels is folded to provide at least one partition panel extending toward the front panel and through which the arrow heads may be inserted for support thereby.

A further feature of the present invention resides in the provision of a package for arrow heads and the like which may be readily folded and locked together to form a generally triangular sleeve. The partition wall structure is folded in generally right angular relation to the inner rear wall panels, and the pointed ends of the arrow heads are inserted through slits or apertures in this partition wall structure. The front wall and bottom wall panel may then be folded about the arrow heads to provide a generally triangular sleeve, and the carton locked together in this form. When thus folded, two of such cartons may be folded together with the front panels of the two sleeves in contact so that the two packages may accommodate but slightly more than the space required for a single carton of rectangular form for the same objects.

These and other objects and novel features of the present invention will be more clearly and fully set forth in the following specification and claims.

In the drawings forming a part of the specification:

FIGURE 1 is a perspective view of the package in display position.

FIGURE 2 is a diagrammatic view of the blank from which the carton is formed.

FIGURE 3 is a rear elevational view of the carton in display position.

FIGURE 4 is an enlarged side elevational view of the carton in display form.

As indicated in FIGURE 2 of the drawings, the display carton A, in preferred form, includes an inner bottom

panel 10 foldably connected along a transverse fold line 11 to an inner lower rear wall panel 12. The panel 12 is folded along a fold line 13 to a lower partition panel 14. The lower partition panel 14 is foldably connected along a fold line 15 to an inner front panel or display panel 16. The display panel 16 is foldably connected along the fold line 17 to an upper partition panel 19. The upper display panel 19 is connected to an upper inner rear wall panel 20 along a fold line 21. The panel 20 is connected along a fold line 22 to the front panel 23. The front panel 23 is connected along a fold line 24 to the outer bottom panel 25. The panel 25 is in turn connected along a fold line 26 to an outer rear wall panel 27. All of the fold lines which have been described are in parallel relation and are at right angles to the longitudinal axis of the blank.

Generally U-shaped cut lines 29 and 30 form tongues 31 and 32 which are connected at their inner opposed ends to the panel 20. Notches 33 and 34 extend into the opposite side edges of the panel 27 at points spaced from the end of this panel. These notches 33 and 34 define locking tongues 35 and 36 which are properly dimensioned to extend through the slots formed by the cut lines 29 and 30 respectively.

The flap 37 is cut from the front panel 23 along continuous lines of separation which may, if desired, include perforated portions so that the flap 37 will remain in the plane of the front panel 23 during storage and shipment. The flap 37 is defined by opposed cut lines 39 and 40 which extend from the fold line 22 to a point spaced from the fold line 24 and inwardly from the side edges of the blank. The ends of the cut lines 39 and 40 are connected by a transverse cut line 41. An opening 42 is provided through the flap 37 to provide an aperture through which a hook or bracket may be inserted for supporting the package in display position.

The partition panel 14 is provided with a series of diagonally extending slits 43 through which the blades of the arrow may extend. Apertures 44 may be provided intercepting the slots 43 to assist in guiding the points of the arrows through the partition. Diagonal slits 45 are also provided in the partition panel 19 which align with the slits 43 when the carton is folded together.

The procedure used in packaging the arrow heads in the carton may be varied. However, in order to accomplish the result, the partition panels 14 and 19 may be folded into substantially right angular relation with the panels 12 and 20 and with the intermediate panels 16. The arrow heads may then be threaded through the aligned slits in the partitions.

The bottom panel 10 may then be folded in right angular relation with the rear panel 12, the front panel 23 folded to overlie the arrows, and the bottom panel 25 and outer rear panel 27 may be wrapped around the lower and rear portion of the package until the locking tongues 35 and 36 are substantially registered with the U-shaped cut lines 29 and 30. By flexing the paperboard slightly, the locking tongues may be inserted through the slits and the folder is complete.

In shipment, two of the packages are nested together to form a rectangle and the arrow heads are shipped in dozen lots in this manner. When received by the dealer, the flap 37 is hinged up toward the position shown in FIGURES 1, 3 and 4 of the drawings and the carton may be displayed in this manner. In this position, the arrow heads are, for the most part, readily visible. However, the sharp points and edges of the arrow head are protected by their partial enclosure in the package and by their proximity with the walls thereof.

In accordance with the patent statutes, I have described the principles of construction and operation of my improvement in package for arrows heads, and while I have

endeavored to set forth the best embodiment thereof, I desire to have it understood that changes may be made within the scope of the following claims without departing from the spirit of my invention.

I claim:

1. A package of elongated tapered arrow heads including a bottom panel, a rear panel extending upwardly from one edge of said bottom panel, a front panel extending upwardly from the edge of said bottom panel opposite said one edge and connected to said rear panel to form a body substantially triangular in section, and a flap cut from said front panel intermediate the ends thereof and foldably connected to said rear panel along the upper edge thereof, and means on said back panel extending toward said front panel and supporting said arrow heads extending upwardly from said bottom panel in spaced parallel relation.

2. The structure of claim 1 and in which said flap extends the main portion of the width of said front panel to expose said arrow heads when said flap is folded upwardly.

3. The structure of claim 1 and in which said means extending toward said front panel includes a pair of vertically spaced wall panels secured to said back panel and connected along their forward edges, and said spaced panels having opening therethrough through which said arrow heads project.

4. A carton including a strip of paperboard folded along parallel fold lines to provide, in series, a first inner rear wall panel, a first partition panel, an inner front wall panel, a second partition panel, a second inner rear wall panel, an outer front wall panel, a bottom panel, and an outer rear wall panel to said second rear wall panel to form, with said outer front wall panel and bottom panel, a generally triangular sleeve, said partition panels being held in generally parallel relation by said inner front panel.

5. The structure of claim 4 and in which said outer rear wall panel overlaps said second inner rear wall panel.

6. The structure of claim 4 and including a flap cut from said front panel along cut lines terminating at the line of fold connecting said second inner rear wall panel to said front panel and said flap being foldable along said last named line of fold.

7. The structure of claim 4 and including an inner bottom panel foldably connected to said first inner rear wall panel and overlying said first named bottom panel.

8. A generally triangular sleeve comprising a strip of paperboard folded along parallel fold lines to include an outer rear wall panel, a bottom panel extending in substantially right angular relation to the lower edge of said outer rear wall panel, a front panel foldably connected to the forward edge of said bottom panel, and an upper inner rear wall panel extending in overlapping face contact with said outer rear wall panel, means for connecting said rear wall panels in overlapping relation to provide, with said bottom panel and front panel, a triangular sleeve, said upper inner rear wall terminating substantially above said bottom panel and hingedly connected to an upper partition wall panel, a lower partition wall panel connected to said upper partition wall panel and extending rearwardly to said outer rear wall panel and an inner lower rear wall panel lying inwardly of, and in face contact with, said outer rear wall panel.

9. The structure of claim 8 and including a flap cut from said front panels on continuous lines of separation terminating at the line of fold connecting said front wall panel to said upper inner side wall panel and foldable along said last named line of fold.

10. The structure of claim 8 and including a narrow inner front wall panel connecting the forward edges of said partition panels.

11. The structure of claim 8 and in which said means for securing said outer rear wall panel to said upper inner rear wall panel comprises interengaging locks.

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