

1

**CHILD-RESISTANT PACKAGE**

The present disclosure relates to a child-resistant package, and more particularly to a compact-style child-resistant package that provides tamper indication.

**BACKGROUND AND SUMMARY OF THE DISCLOSURE**

A general object of the present disclosure is to provide an economical compact-style child-resistant package for containing tablets or the like.

The present disclosure embodies a number of aspects that can be implemented separately from or in combination with each other.

A child-resistant package in accordance with one aspect of the present disclosure includes a first element having a base wall with a rectangular periphery, a continuous peripheral wall extending around such periphery, at least a pair of locking projections internally disposed on opposed sections of the peripheral wall, and a cylindrical wall extending from the base wall within the peripheral wall and having at least one first thread segment. A second element has a base wall with a rectangular periphery and a continuous peripheral wall extending around the periphery, a pair of locking tabs centrally extending from opposed sections of the peripheral wall, and a cylindrical wall extending from the base wall within the peripheral wall and having at least one second thread segment. The second element is threadable onto the first element by means of the cylindrical walls and the first and second thread segments to bring the peripheral walls into aligned abutment and the locking tabs into engagement with the locking projections to resist unthreading of the elements. The peripheral wall of the second element is inwardly flexible and resilient adjacent to the locking tabs to permit manual movement of the locking tabs inward from the locking projections so that the elements can be unthreaded from each other. A label preferably extends at least from the base wall of the second element around abutting sections of the peripheral walls onto the base wall of the first element such that the label must be severed to permit unthreading of the elements to provide tamper indication for the package.

**BRIEF DESCRIPTION OF THE DRAWINGS**

The disclosure, together with additional objects, features, advantages and aspects thereof, will best be understood from the following description, the appended claims and the accompanying drawings, in which:

FIG. 1 is a perspective view of a package in accordance with an exemplary embodiment of the present disclosure;

FIG. 2 is a perspective view of the package of FIG. 1 without the label;

FIG. 3 is a fragmentary sectional view taken substantially along the line 3-3 in FIG. 2;

FIG. 4 is a perspective view of the package of FIG. 2 with the package elements separated from each other;

FIG. 5 is a top plan view of the lower package element in the package of FIGS. 1-4;

FIG. 6 is a sectional view taken substantially along the line 6-6 in FIG. 5;

FIG. 7 is a fragmentary sectional view taken substantially along the line 7-7 in FIG. 6;

FIG. 8 is an enlarged view of the portion of FIG. 5 within the area 8;

FIG. 9 is a bottom plan view of the upper package element in the package of FIGS. 1-4;

2

FIG. 10 is a sectional view taken substantially along the line 10-10 in FIG. 9;

FIG. 11 is an enlarged view of the portion of FIG. 10 within the area 11;

FIG. 12 is an enlargement of the portion of FIG. 9 within the area 12; and

FIG. 13 is a fragmentary sectional view taken substantially along the line 13-13 in FIG. 12.

**DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS**

The drawings illustrate a child-resistant compact-style package 10 in accordance with an exemplary embodiment of the disclosure. Package 10 includes a first element 12 hereinafter referred to as a "base" and a second element 14 hereinafter referred to as a "lid" threadably received on the base. The terms "base" and "lid" are used for purposes of description only and do not imply any limitation as to which element is disposed above the other.

Base 12 (FIGS. 1-8) includes a base wall 16, which preferably is substantially flat and has a rectangular periphery that preferably is square. An upstanding continuous peripheral wall 18 extends entirely around the rectangular (preferably square) periphery of base wall 16 and has an upper edge 20 disposed in a plane that preferably is parallel to substantially flat base wall 16. A cylindrical wall 22 extends from base wall 16 within peripheral wall 18, preferably being substantially centrally disposed within peripheral wall 18. Cylindrical wall 22 has at least one external thread segment 24. In the illustrated exemplary embodiment of the disclosure, there are four external thread segments 24 with thread starts at 90° spacing from each other. Cylindrical wall 22 has an edge 26 that preferably lies in a plane parallel to the plane of peripheral wall edge 20. A locking projection 28 is internally disposed at least on opposed linear sections of peripheral wall 18. In the exemplary embodiment of the disclosure that includes four thread segments 24, there preferably is a locking projection 28 internally disposed on each linear section of peripheral wall 18. Each locking projection 28 includes a counterclockwise-facing cam surface 30 (in the orientation of FIG. 5) and a clockwise-facing abutment surface 32. The opposed pairs of locking projections 28 are generally centered on the peripheral wall sections but are slightly offset from each other, as best seen in FIG. 5, for purposes to be described. Base 12 preferably is of one-piece molded plastic construction such as polypropylene.

Lid 14 (FIGS. 1-4 and 9-13) preferably also is of one-piece molded plastic construction such as polypropylene and includes a base wall 34 that preferably is substantially flat. Base wall 34 has a rectangular periphery, preferably square, that is identical to the rectangular (preferably square) periphery of base 12. A continuous peripheral wall 36 extends entirely around the periphery of lid base wall 34 and has a free edge 38 that lies in a plane parallel to the plane of substantially flat base wall 34. A cylindrical wall 40 extends from base wall 34 within peripheral wall 36, preferably centrally within peripheral wall 36. Cylindrical wall 40 has at least one internal thread segment 42 that corresponds in number and geometry with the at least one external thread segment 24 on base 12. In the illustrated exemplary embodiment of the disclosure, there are four internal thread segments 42 with thread starts at 90° spacing around the inside of cylindrical wall 40. A pair of internal locking tabs 44 centrally extend from diametrically opposed linear sections of peripheral wall 36. External ribs or grooves 46 may be provided on peripheral wall 36 to identify the locations of tabs 44. Internal grooves