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(54) Title: SELF-CLOSING LIQUID DISPENSING PACKAGE

(57) Abstract

The present invention relates to a self-closing liquid dispensing package comprising a liquid container (10) and a self-closing flat channel valve (20) in liquid communication with liquid container, wherein the liquid container comprises a reservoir portion (13) for containing liquid. The reservoir portion is made of a thermoformed thermoplastic material. In one preferred embodiment of the present invention, the self-closing flat channel valve (20) comprises a first sheet member and a second sheet member (21, 22) wherein the sheets are substantially planar, are indexed face-to-face, and are sealed together along their longitudinal edges, wherein the sheet members are sufficiently flexible to arch away from each other to form a flow channel (25) therethrough to permit a flow of contained liquid in response to external pressure applied to the liquid container, and wherein at least one of the sheet members is sufficiently resilient to return the sheet members to their original planar position when the external pressure is released. In another preferred embodiment of the present invention, the self-closing flat channel valve (20) is in liquid communication with the container via a connection portion wherein the connection portion comprises a stiffening crease (50). The package of the present invention is useful for multiple use of various liquid product having a wide range of viscosity.

