

Title (en)
THREE BY FOUR CAN PACKAGE DISPENSING CARTON

Title (de)
3X4-DOSENVERPACKUNGSABGABEKARTON

Title (fr)
CARTON DE DISTRIBUTION ET DE CONDITIONNEMENT DE BOITES SELON UNE CONFIGURATION TROIS SUR QUATRE

Publication
EP 1732823 A2 20061220 (EN)

Application
EP 05713331 A 20050211

Priority
• US 2005004312 W 20050211
• US 78979204 A 20040227

Abstract (en)
[origin: US2005189405A1] A carton with an improved dispenser at an end of the carton which preserves the integrity of the carton when it is opened while permitting the bottom end flaps attached to the bottom panel to remain in place and also a portion of each side end flap that overlaps the bottom end flaps. This dispenser has a bottom tear line in the end of the carton which only extends partially across the end of the carton. The tear line extends upwardly from each side of the bottom tear line to form end retainers to prevent cans in the second row of the carton from rolling out. By placing the bottom tear line no higher from the bottom of the carton than necessary to retain a can in the bottom row and to make the end retainers on each side of the carton no larger than necessary to restrain a can in the second row from rolling out, easy access to the cans on the bottom row of containers is provided after the cans in the second and third rows of the carton have been removed. This dispenser may also provide a safety net for the first can dispensed. The top tear line in the top panel for forming the dispenser flap is located from the exiting end of the carton at a distance that is significantly less than the diameter of a can to be contained in the carton. Preferably this distance is between 70 and 85% of the diameter of a container to be contained in the carton, but can be as short at 50% of the diameter of a container plus approximately three millimeters.

IPC 8 full level
B65D 71/00 (2006.01); **B65D 5/54** (2006.01); **B65D 71/36** (2006.01)

CPC (source: EP US)
B65D 71/36 (2013.01 - EP US); **B65D 2571/00141** (2013.01 - EP US); **B65D 2571/0045** (2013.01 - EP US); **B65D 2571/00543** (2013.01 - EP US); **B65D 2571/0058** (2013.01 - EP US); **B65D 2571/0066** (2013.01 - EP US); **B65D 2571/00728** (2013.01 - EP US)

Citation (search report)
See references of WO 2005092735A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2005189405 A1 20050901; AU 2005226743 A1 20051006; AU 2005226743 B2 20090730; BR PI0506830 A 20070529; CA 2552689 A1 20051006; CN 1922082 A 20070228; EP 1732823 A2 20061220; JP 2007525387 A 20070906; NZ 548392 A 20100226; US 2008116251 A1 20080522; WO 2005092735 A2 20051006; WO 2005092735 A3 20051124

DOCDB simple family (application)
US 78979204 A 20040227; AU 2005226743 A 20050211; BR PI0506830 A 20050211; CA 2552689 A 20050211; CN 200580005967 A 20050211; EP 05713331 A 20050211; JP 2007500858 A 20050211; NZ 54839205 A 20050211; US 2005004312 W 20050211; US 95806907 A 20071217