

Title (en)  
REINFORCED MULTI-TIER CARTON

Title (de)  
LUFTLEITERCONVERTORFUR FADENSCHNEIDER

Title (fr)  
BOITE EN CARTON RENFORCEE A PLUSIEURS ETAGES

Publication  
**EP 0889829 A4 20011219 (EN)**

Application  
**EP 97901985 A 19970115**

Priority  
• GB 9601777 A 19960130  
• US 9700426 W 19970115

Abstract (en)  
[origin: WO9728051A1] A multi-tier carton for groups of articles is formed from upper and lower blanks (40, 10) of foldable sheet material in which the lower blank includes foldable flaps (F1 - F4) to enhance the stacking strength of the carton. The carton also includes upstanding locating tabs (T1' - T4') and complementary locating apertures (H1 - H8) provided in each carton by both blanks so that a pair of like cartons can be inter-engaged when stacked to improve stacking stability.

IPC 1-7  
**B65D 5/32**; **B65D 21/032**; **B65D 71/00**

IPC 8 full level  
**B65D 71/00** (2006.01); **B65D 71/38** (2006.01)

CPC (source: EP)  
**B65D 71/38** (2013.01); **B65D 2571/00141** (2013.01); **B65D 2571/0037** (2013.01); **B65D 2571/00469** (2013.01); **B65D 2571/00543** (2013.01); **B65D 2571/00666** (2013.01); **B65D 2571/00728** (2013.01); **B65D 2571/00839** (2013.01); **B65D 2571/00895** (2013.01)

Citation (search report)  
• [YP] US 5503324 A 19960402 - BACCHETTI MARK R [US], et al  
• [XPY] EP 0738664 A1 19961023 - SMURFIT SOCAR SA [FR]  
• [XY] US 3121523 A 19640218 - HASSELO WILLIAM C  
• [X] FR 2719561 A1 19951110 - SOCAR [FR]  
• [AP] FR 2733740 A1 19961108 - 4 P EMBALLAGES FRANCE [FR]  
• See references of WO 9728051A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)  
**WO 9728051 A1 19970807**; AT E263710 T1 20040415; AU 1576097 A 19970822; DE 69728528 D1 20040513; DE 69728528 T2 20050324; EP 0889829 A1 19990113; EP 0889829 A4 20011219; EP 0889829 B1 20040407; ES 2218655 T3 20041116; GB 9601777 D0 19960403

DOCDB simple family (application)  
**US 9700426 W 19970115**; AT 97901985 T 19970115; AU 1576097 A 19970115; DE 69728528 T 19970115; EP 97901985 A 19970115; ES 97901985 T 19970115; GB 9601777 A 19960130