

Title (en)
FOLDING CARTON WITH THREAD AND PUNCH LOCK

Publication
EP 0231638 A3 19880608 (EN)

Application
EP 86309962 A 19861219

Priority
US 82406486 A 19860130

Abstract (en)
[origin: EP0231638A2] A folding container such as a tray, carton or the like constructed of paperboard includes a interior end panel (22) articulated to a bottom wall panel (12) and including a relief slit (44) to ensure full engagement of a thread and punch lock on first and second end panels (26, 30) articulated to opposite sidewall panels (14, 16). The first locking end panel (26) includes a locking assembly comprising a tongue (34) and cooperating locking tab (38). The second locking end panel (30) includes a receipt aperture (40) for the lock assembly. When locked in overlapping relation, the tongue and tab are respectively threaded and snapped into the receipt aperture to provide secure engagement. The relief slit is substantially U-shaped with the open end of the U directed toward the lock assembly receipt aperture when the end panels are in overlapping relation. The relief slit extends substantially around the tab engaging edge of the lock assembly receipt aperture so as to provide sufficient relief for the full and complete engagement of the locking tab.

IPC 1-7
B65D 5/26

IPC 8 full level
B65D 5/26 (2006.01)

CPC (source: EP)
B65D 5/26 (2013.01)

Citation (search report)
• [A] US 2303796 A 19421201 - RUECKERT DEAN E
• [A] GB 552710 A 19430421 - WM FINLAY & SONS LTD, et al
• [A] US 3261535 A 19660719 - KRAUSE JOHN L
• [A] US 3955748 A 19760511 - CALVERT RODNEY K
• [A] US 3380645 A 19680430 - PIERCE JR CHESTER J
• [AD] US 3206098 A 19650914 - STENGER RICHARD C, et al

Cited by
DE102012102432B4; DE102012102432A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0231638 A2 19870812; EP 0231638 A3 19880608; EP 0231638 B1 19910424; CA 1273325 A 19900828; DE 3678940 D1 19910529

DOCDB simple family (application)
EP 86309962 A 19861219; CA 526095 A 19861222; DE 3678940 T 19861219