

Title (en)
Retainer for shipping containers

Title (de)
Halterung für Versandcontainer

Title (fr)
Retenue pour conteneurs d'expédition

Publication
EP 2143665 A1 20100113 (EN)

Application
EP 08090004 A 20081022

Priority
TW 97125685 A 20080708

Abstract (en)
A retainer (100) for securing together upper and lower shipping containers (2) includes interconnected upper and lower retaining members (6, 5) each adapted to be inserted into a hole (30) in a corner piece (3) of a respective one of the upper and lower shipping containers (2) , and at least one swing member (7) disposed inside the lower retaining member (5). The upper retaining member (6) has a top end (62) aligned with a bottom end (521) of the lower retaining member (5) along an axial line (X) of the retainer (100). The swing member (7) includes a lower pivot portion (71) connected pivotally to the lower retaining member (5), and an upper engaging portion (72) which is proximate to the axial line (X) in a non-engaging position and when the axial line (X) of the retainer (100) is substantially vertical, and which moves away from the axial line (X) in an engaging position when the axial line (X) of the retainer (100) is inclined and non-vertical.

IPC 8 full level
B65D 90/00 (2006.01)

CPC (source: EP)
B65D 90/0013 (2013.01)

Citation (search report)
• [A] WO 2005054086 A1 20050616 - MACGREGOR CONVER GMBH [DE], et al
• [A] WO 2005097626 A1 20051020 - MACGREGOR CONVER GMBH [DE], et al
• [A] EP 0507010 A1 19921007 - KOSANOVIC MILORAD [NL], et al
• [A] WO 2007142531 A2 20071213 - LOGI D B V [NL], et al

Cited by
WO2018077568A1; US10384592B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2143665 A1 20100113; JP 2010018349 A 20100128; JP 4979676 B2 20120718; TW 201002588 A 20100116; TW I340722 B 20110421

DOCDB simple family (application)
EP 08090004 A 20081022; JP 2008317921 A 20081215; TW 97125685 A 20080708