

Title (en)

Storage and/or transit stacking of articles.

Title (de)

Stapeln von Gegenständen zur Lagerung und/oder zum Transit.

Title (fr)

Empiler des articles pour le stockage et/ou pour le transit.

Publication

EP 0521705 A1 19930107 (EN)

Application

EP 92306054 A 19920630

Priority

- GB 9114304 A 19910702
- GB 9120775 A 19911001
- GB 9125440 A 19911129

Abstract (en)

Thermo-formed trays (3) carrying rows of bottles (1) are stacked one upon the other with the tops of the bottles (1) on each tray engaged in channels (15) of the tray (3) above. Each channel (15) is closed at both ends so as to hold its row of bottles (1) tightly against one another in line. The upper-surface (6) of the tray (3) is enclosed on three sides (7 to 9), or all four (7 to 10), by a peripheral wall (5) and is divided into guideways for the rows by ridges (11) to restrict lateral movement of the bottoms of the bottles (1) out of row-alignment. Lateral restraint may be provided without ridges by abutment of the rows of bottles (35 Figures 6 to 8) with one another, and the wall (34) may be configured to the contour of the bottles (35) in their rows. The channels (40 Figure 8) nested on the tops of the rows of bottles (35) below, may run slantwise of the tray (33). <IMAGE>

IPC 1-7

B65D 21/02; B65G 57/26

IPC 8 full level

B65D 71/70 (2006.01)

CPC (source: EP)

B65D 71/70 (2013.01)

Citation (search report)

- [A] DE 3714352 A1 19871105 - COCA COLA CO [US]
- [A] WO 8200989 A1 19820401 - INT CONTAINER SYSTEMS INC [US]
- [A] US 4293072 A 19811006 - HILL DAVID A, et al

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EP0696543A1; US5673792A; AT398417B; DE4339445C1; CN1064326C; GB2451425A; EP0610100A1; DE4310373A1; EP2060505A1; EP3967624A1; FR3114081A1; US6279770B1; WO9612657A1; WO9609220A1; WO9838107A1; WO0058173A1; WO9407758A1

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