

Title (en)

Separation element for packing bottles into boxes.

Title (de)

Trennelement zum Verpacken von Flaschen in Schachteln.

Title (fr)

Élément de séparation pour le conditionnement de bouteilles dans des caisses.

Publication

**EP 0543660 A2 19930526 (EN)**

Application

**EP 92310619 A 19921120**

Priority

ZA 919258 A 19911122

Abstract (en)

Dividers for enabling articles such as bottles and bunches of grapes to be shipped in a manner which utilizes space economically comprise blanks of cardboard or like material which have a series of crease lines across them. Some crease lines form valleys when the blanks are folded and others form ridges. In some forms the crease lines converge and diverge in such manner that generally triangular shipping spaces are provided between adjacent ridges. When bottles are to be shipped, the bottles can be arranged in two oppositely arranged series with the necks intermeshed along the centre zone of the box. In another form each of a number of parallel crease lines has a first part which forms a ridge and a second part which forms a valley. A zig-zag crease line (24) which forms a ridge extends transversely of the blank (10). The parallel crease lines change from ridge (16,22) to valley (18,20) at an apex of the zig-zag crease line, and, on each side of the zig-zag crease line, crease lines which form valleys alternate with crease lines that form ridges.

IPC 1-7

**B65D 5/48**

IPC 8 full level

**B65D 5/49** (2006.01)

CPC (source: EP)

**B65D 5/48042** (2013.01)

Cited by

US9604751B2; DE29716702U1; CN109018693A

Designated contracting state (EPC)

DE ES FR IT NL PT

DOCDB simple family (publication)

**EP 0543660 A2 19930526; EP 0543660 A3 19930728**; AU 2856592 A 19930527; ZA 929012 B 19930517

DOCDB simple family (application)

**EP 92310619 A 19921120**; AU 2856592 A 19921123; ZA 929012 A 19921120