

Title (en)
BULK BIN WITH AUTO-CLOSING BOTTOM

Title (de)
GROSSRAUMBEHÄLTER MIT SELBSTSCHLIESSENDEM BODEN

Title (fr)
CELLULE DE STOCKAGE EN VRAC MUNIE D'UN FOND A FERMETURE AUTOMATIQUE

Publication
EP 1824745 A4 20090715 (EN)

Application
EP 05853991 A 20051214

Priority

- US 2005045191 W 20051214
- US 63607304 P 20041214
- US 30143805 A 20051213

Abstract (en)
[origin: US2006124716A1] A bin (10, 40, 50, 70, 80) has an auto-closing bottom and can be manufactured and shipped and stored in a flattened configuration and moved to an open expanded configuration at a point of use. The bin has opposed sidewalls (11, 12) and opposed end walls (13, 14 and 15, 16) and major bottom flaps (18, 19) on the sidewalls and minor bottom flaps (20, 21 and 22, 23) on the end walls. The flaps automatically move to their closed position when the bin is moved from its flattened configuration to its expanded configuration. A connecting web (25 - 28, 43) is foldably connected between each major bottom flap and an adjacent first side edge of an adjacent minor bottom flap, and adjacent side edges of the minor bottom flaps are foldably interconnected (29, 30 or 44), so that when the sidewalls and end walls are moved from their flattened configuration to their open expanded configuration, the major and minor bottom flaps automatically fold inwardly toward one another to close the bottom of the bin.

IPC 8 full level
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CPC (source: EP US)
B65D 5/029 (2013.01 - EP US); **B65D 5/06** (2013.01 - EP US); **B65D 5/3621** (2013.01 - EP US)

Citation (search report)

- [X] US 2044103 A 19360616 - HARRY ROSSI
- [X] US 4199098 A 19800422 - LOPEZ LOUIS R [US]
- See references of WO 2006065874A1

Designated contracting state (EPC)
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