

Title (en)

Device for packaging groups of (single-)packages

Title (de)

Vorrichtung zum Verpacken von Gruppen von (Einzel-)Packungen

Title (fr)

Dispositif pour emballer des groupes d'emballages (individuels)

Publication

EP 0959002 B1 20040317 (DE)

Application

EP 99109676 A 19990517

Priority

DE 19821969 A 19980518

Abstract (en)

[origin: EP0959002A1] A machine assembles individually pre-packed products (10) layered (14) into groups which are then packed into cartons (11). The individual packed products (10) are collected at a grouping station (23) where they form rows (13) which are then moved by a transverse pusher (28) onto a collecting plate (29). Several rows (13) are formed into a block (14) which is then lifted (33) in its assembled form and deposited in the carton (11).

IPC 1-7

B65B 5/10; **B65B 59/00**; **B65B 35/40**; **B65B 57/10**

IPC 8 full level

B65B 5/10 (2006.01); **B65B 35/40** (2006.01); **B65B 43/48** (2006.01); **B65B 57/10** (2006.01); **B65B 59/00** (2006.01)

CPC (source: EP US)

B65B 5/105 (2013.01 - EP US); **B65B 35/40** (2013.01 - EP US); **B65B 57/10** (2013.01 - EP US)

Cited by

CN102923343A; CN104210697A; CN102673816A; ITBO20090686A1; CN108394624A; CN109835511A; EP1897808A1; NL1032449C2; EP2436603A1; CN102556383A; EP1748007A1; CN106516245A; DE10300642C5; US9037289B2; WO2015107452A1; US10501215B2; US11878827B2; EP1963214B1; WO2014190966A1; WO2018141772A1; EP2935018B1

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0959002 A1 19991124; **EP 0959002 B1 20040317**; BR 9902088 A 20000104; CA 2271587 A1 19991118; CA 2271587 C 20051129; CN 1126693 C 20031105; CN 1235921 A 19991124; DE 19821969 A1 19991125; DE 59908844 D1 20040422; JP 4136190 B2 20080820; JP H11348930 A 19991221; US 6164045 A 20001226

DOCDB simple family (application)

EP 99109676 A 19990517; BR 9902088 A 19990517; CA 2271587 A 19990513; CN 99106652 A 19990518; DE 19821969 A 19980518; DE 59908844 T 19990517; JP 13682699 A 19990518; US 31285099 A 19990517