

Title (en)

Method and device for forming a row of flat objects

Title (de)

Verfahren und Einrichtung zur Erstellung einer Reihe von flachen Objekten

Title (fr)

Procédé et dispositif destinés à former une rangée d'objets plats

Publication

EP 1914165 B1 20100512 (DE)

Application

EP 08002613 A 20050519

Priority

- EP 05737457 A 20050519
- CH 9312004 A 20040602

Abstract (en)

[origin: EP1914165A1] The packaging process involves forming a row (4) directly on the packaging material web (2) while the objects (1) are separated out by acceleration from a supply stream (3) in which they overlap, and placed directly on the web. This eliminates the additional conveying steps so that the entire conveying line can be reduced.

IPC 8 full level

B65B 9/087 (2012.01); **B65B 25/14** (2006.01); **B65H 29/04** (2006.01); **B65H 29/66** (2006.01)

CPC (source: EP US)

B65B 9/02 (2013.01 - EP US); **B65B 9/067** (2013.01 - EP US); **B65B 25/14** (2013.01 - EP US); **B65H 29/042** (2013.01 - EP US);
B65H 29/6654 (2013.01 - EP US); **B65B 25/002** (2013.01 - EP US); **B65H 2301/3422** (2013.01 - EP US); **B65H 2301/431** (2013.01 - EP US);
B65H 2301/4451 (2013.01 - EP US); **B65H 2301/44712** (2013.01 - EP US); **B65H 2301/4473** (2013.01 - EP US); **B65H 2511/22** (2013.01 - EP US)

C-Set (source: EP US)

1. **B65H 2301/44712 + B65H 2220/02**
2. **B65H 2301/4473 + B65H 2220/01**

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005118400 A1 20051215; AT E388892 T1 20080315; AT E467564 T1 20100515; AU 2005249619 A1 20051215;
AU 2005249619 B2 20101118; CA 2568517 A1 20051215; DE 502005003209 D1 20080424; EP 1751002 A1 20070214;
EP 1751002 B1 20080312; EP 1914165 A1 20080423; EP 1914165 B1 20100512; ES 2302196 T3 20080701; JP 2008501581 A 20080124;
JP 4814225 B2 20111116; RU 2006146526 A 20080720; RU 2390481 C2 20100527; US 2009255219 A1 20091015;
US 2010300047 A1 20101202; US 7757461 B2 20100720; US 7877965 B2 20110201

DOCDB simple family (application)

CH 2005000278 W 20050519; AT 05737457 T 20050519; AT 08002613 T 20050519; AU 2005249619 A 20050519; CA 2568517 A 20050519;
DE 502005003209 T 20050519; EP 05737457 A 20050519; EP 08002613 A 20050519; ES 05737457 T 20050519; JP 2007513643 A 20050519;
RU 2006146526 A 20050519; US 56988505 A 20050519; US 82612610 A 20100629