

Title (en)

METHOD AND APPARATUS FOR INSERTING PACKAGES INTO CARTONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM EINFÜHREN VON PACKUNGEN IN KARTONS

Title (fr)

PROCÉDÉ ET DISPOSITIF D'INTRODUCTION D'EMBALLAGES DANS DES CARTONS

Publication

**EP 2830956 A1 20150204 (DE)**

Application

**EP 13705725 A 20130222**

Priority

- DE 102012006278 A 20120329
- EP 2013000514 W 20130222

Abstract (en)

[origin: CA2868949A1] For the automatic insertion of packages (11) into a large-volume carton (10), two operating devices are used, specifically a packing robot (33) having a carton holder (30) for holding the cartons (10) ready and a packing robot (33) having a head (37) for inserting the individual packages (11) one after the other into the carton (10) in the area of a packing station (33). By means of a relative movement of carton (10) and pack (11), different packing formations within the carton (12) are created.

IPC 8 full level

**B65B 35/18** (2006.01); **B65B 5/10** (2006.01); **B65B 35/52** (2006.01)

CPC (source: CN EP RU US)

**B65B 5/105** (2013.01 - CN EP US); **B65B 5/108** (2013.01 - RU); **B65B 35/18** (2013.01 - CN EP RU US); **B65B 35/52** (2013.01 - CN EP US); **B65B 35/56** (2013.01 - RU); **B65B 2220/18** (2013.01 - CN)

Citation (search report)

See references of WO 2013143637A1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102012006278 A1 20131002**; AR 090459 A1 20141112; CA 2868949 A1 20131003; CL 2014002573 A1 20150605; CN 104302549 A 20150121; CN 104302549 B 20160615; CO 7081151 A2 20141010; CR 20140442 A 20150206; EP 2830956 A1 20150204; EP 2830956 B1 20170412; JP 2015514644 A 20150521; JP 6111318 B2 20170405; MX 2014011509 A 20150408; MX 351796 B 20171030; PE 20142415 A1 20150128; PL 2830956 T3 20170929; RU 2014143412 A 20160520; RU 2608715 C2 20170123; US 2015013277 A1 20150115; US 9789983 B2 20171017; WO 2013143637 A1 20131003; ZA 201407748 B 20150930

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