

Title (en)

Method for removing folded boxes from an outer packaging

Title (de)

Verfahren zur Entnahme zusammengelegter Faltschachteln aus einer Umverpackung

Title (fr)

Procédé de prélèvement de boîtes pliantes regroupées à partir d'un double emballage

Publication

**EP 2620377 B1 20151014 (DE)**

Application

**EP 13151165 A 20130114**

Priority

- DE 202012000940 U 20120128
- DE 102012107984 A 20120829

Abstract (en)

[origin: EP2620377A2] The swivel unit (4) is mounted in rotatable state below a container (3). A gripper unit (1) is pivoted above the container, so as to remove vertically stacked components (2) from the container during pivoting operation of swivel unit.

IPC 8 full level

**B65B 69/00** (2006.01); **B65H 31/30** (2006.01)

CPC (source: EP)

**B65B 69/00** (2013.01); **B65H 31/3045** (2013.01); **B65H 2301/422542** (2013.01); **B65H 2405/354** (2013.01); **B65H 2701/1766** (2013.01)

Cited by

US2011286822A1; KR20160067970A; US9928678B2; WO2015086145A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2620377 A2 20130731**; **EP 2620377 A3 20140409**; **EP 2620377 B1 20151014**; DE 102012107984 A1 20130801;  
DE 102012107984 B4 20141211; DK 2620377 T3 20151207; ES 2558833 T3 20160209; PL 2620377 T3 20160229

DOCDB simple family (application)

**EP 13151165 A 20130114**; DE 102012107984 A 20120829; DK 13151165 T 20130114; ES 13151165 T 20130114; PL 13151165 T 20130114