

Title (en)

DEVICE AND METHOD FOR PREPARING PACKAGING BOXES WITH VERTICAL UNSTACKING

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG VON VERPACKUNGSSCHACHTELN MIT VERTIKALER ENTSTAPELN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE FORMATION DE BOITES D'EMBALLAGES AVEC DÉPILAGE VERTICAL

Publication

EP 2809506 B1 20170628 (FR)

Application

EP 13706623 A 20130201

Priority

- FR 1200339 A 20120203
- FR 2013050226 W 20130201

Abstract (en)

[origin: WO2013114061A1] The invention relates to a device (1) and a method for preparing a packaging box (2, 74) from at least one storage location (3) for a stack (4, 68, 69) of corrugated cardboard cut-outs, including means (6) for moving the stack forward while same is being unstacked and means (7) for unstacking the cut-outs by means of suction. Since the cut-outs are stacked vertically, the means (6) for moving the stack forward comprise a plate (8) for lifting the stack vertically up to an engagement plane (9) for the cut-out (28) located on top. The device comprises means (27) for locating the X, Y, Z position (pi) of the top cut-out in the storage location and means (29) for calculating the X, Y, Z path, comprising a vertical component, and means for unstacking on the basis of said position (pi), which are designed to control the movement of said unstacking means between a position (9) for grasping the cut-out and a position for positioning same a predetermined work station likewise located at X, Y, Z.

IPC 8 full level

B65H 3/08 (2006.01); **B31B 50/02** (2017.01); **B65H 3/14** (2006.01); **B65H 3/26** (2006.01); **B65H 3/50** (2006.01); **B65H 3/54** (2006.01);
B65H 3/56 (2006.01); **B65H 31/30** (2006.01)

CPC (source: EP US)

B31B 50/044 (2017.08 - EP US); **B31B 50/28** (2017.08 - EP); **B31B 50/74** (2017.08 - EP US); **B65H 1/14** (2013.01 - EP US);
B65H 3/0816 (2013.01 - EP US); **B31B 50/022** (2017.08 - EP US); **B31B 50/046** (2017.08 - EP US); **B31B 50/06** (2017.08 - EP US);
B31B 50/066 (2017.08 - EP US); **B31B 50/28** (2017.08 - US); **B31B 2100/00** (2017.08 - EP US); **B31B 2100/0022** (2017.08 - EP US);
B31B 2110/35 (2017.08 - EP US); **B65H 2511/20** (2013.01 - EP US); **B65H 2513/42** (2013.01 - EP US); **B65H 2555/30** (2013.01 - EP US);
B65H 2701/1762 (2013.01 - EP US); **B65H 2701/1764** (2013.01 - EP US); **B65H 2701/1766** (2013.01 - EP US)

C-Set (source: EP US)

1. **B65H 2511/20 + B65H 2220/01**
2. **B65H 2513/42 + B65H 2220/02 + B65H 2220/03 + B65H 2220/11**

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)

WO 2013114061 A1 20130808; EP 2809506 A1 20141210; EP 2809506 B1 20170628; ES 2641448 T3 20171110; FR 2986510 A1 20130809;
FR 2986510 B1 20160325; US 2014371045 A1 20141218

DOCDB simple family (application)

FR 2013050226 W 20130201; EP 13706623 A 20130201; ES 13706623 T 20130201; FR 1200339 A 20120203; US 201314374037 A 20130201