

Title (en)

Apparatus for erecting boxes from carton blanks

Title (de)

Vorrichtung zum Aufrichten von Schachteln aus Kartonzuschnitten

Title (fr)

Appareil pour dresser des boîtes à des ébauches de carton

Publication

EP 1184161 A3 20030115 (DE)

Application

EP 01117337 A 20010718

Priority

DE 20014323 U 20000819

Abstract (en)

[origin: EP1184161A2] Device for constructing boxes from cardboard sections has a separating device (20) comprising a horizontal drive shaft (21), positioned lower than a transport device (30), and at least one two-part arm (22, 23), whose two parts (22, 23) are connected flexibly to each other and can be tilted against each other using a pneumatic cylinder (25). Vacuum suction apparatus (26) is connected to a free section of the arm (23) and its position is adjustable depending on the cardboard section (1). The separating device (20) is positioned so that it places the cardboard section (1) removed from the stack (1') onto the transport device (30).

IPC 1-7

B31B 3/44; **B31B 1/06**

IPC 8 full level

B31B 3/44 (2006.01); **B31B 50/06** (2017.01); **B65B 43/30** (2006.01)

CPC (source: EP US)

B65B 43/305 (2013.01 - EP US); **B31B 50/44** (2017.07 - EP US)

Citation (search report)

- [PX] DE 20014323 U1 20001102 - MOHRBACH MASCHINENFABRIK GMBH [DE]
- [X] US 4629446 A 19861216 - FOCKE HEINZ [DE]
- [A] EP 0164585 A1 19851218 - GREIF WERK MASCH [DE]
- [A] CH 293588 A 19530930 - ROSE BROTHERS LTD [GB]

Cited by

EP1359002A1; CN103507997A; DE10244103A1; DE10244103B4; CN105151408A; CN114043768A; EP1394049A1; US6997671B2

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