

Title (en)
A box erecting device

Title (de)
Vorrichtung zum Aufrichten von Schachteln

Title (fr)
Dispositif pour former des boîtes

Publication
EP 1609585 B1 20071219 (EN)

Application
EP 05425444 A 20050620

Priority
IT BO20040388 A 20040621

Abstract (en)
[origin: EP1609585A1] The device (4) for erecting boxes (2) from flat blanks (3) made of card comprises: a mandrel that moves vertically in a first defined vertical direction (D1); guides (55) for folding portions (3a) of the blank (3) in such a way as to shape the boxes (2), said folding guides (55) engaging the blank (3) when it comes into contact with the mandrel; a plurality of heads (12) for joining the corners (13) of the boxes (2) being erected, by applying lengths (14) of heat adhesive tape, each of the heads (12) comprising a device (16) for feeding the tape, a blade (56) for cutting the tape, a heating element (27) and a pressure shoe (28) over which the tape runs and which is designed to hold the tape length (14) in contact with the respective box (2) corner (13) to be connected. <IMAGE> <IMAGE>

IPC 8 full level
B31B 3/46 (2006.01); **B31B 3/00** (2006.01); **B31B 3/72** (2006.01); **B65D 5/20** (2006.01)

CPC (source: EP US)
B31B 50/00 (2017.07 - EP); **B31B 50/30** (2017.07 - EP US); **B31B 50/46** (2017.07 - EP); **B31B 50/60** (2017.07 - EP); **B31B 50/724** (2017.07 - EP)

Cited by
WO2013098684A1; WO2014177947A1; ITBO20080756A1; KR101428379B1; ITBO20130197A1; JP2017140831A; ITUB20160535A1; ITBO20110772A1; IT201700049381A1; CN109484721A; US7805911B2; WO2007129201A2; WO2007129201A3

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)
EP 1609585 A1 20051228; EP 1609585 B1 20071219; EP 1609585 B2 20110323; AT E381425 T1 20080115; DE 602005003875 D1 20080131; DE 602005003875 T2 20081211; DE 602005003875 T3 20120105; IT BO20040388 A1 20040921

DOCDB simple family (application)
EP 05425444 A 20050620; AT 05425444 T 20050620; DE 602005003875 T 20050620; IT BO20040388 A 20040621