

Title (en)

FORMER AN PROCEDURE TO FORM CARDBOARD BOX CORNERS IN ASSEMBLING MACHINES

Title (de)

FORMGEBER VON KARTONSCHACHTELECKEN IN MONTAGEMASCHINEN UND VERFAHREN

Title (fr)

FORMEUR ET PROCEDE DE FORMAGE DE COINS DE BOÎTE EN CARTON DANS DES MACHINES D'ASSEMBLAGE

Publication

EP 3284587 B1 20190417 (EN)

Application

EP 17159774 A 20170308

Priority

ES 201631106 A 20160819

Abstract (en)

[origin: EP3284587A1] A former of cardboard box corners in assembling machines from a die-cut cardboard sheet (1) provided with tabs (2) folded by means of a folding mechanism in cooperation with a fastening mechanism (3) to define a reinforcement on each corner of the box. The bending mechanism comprises a frame (15) capable of displacing vertically, which is provided with a horizontal beam (15a), both ends of which comprise a bending head (6), which includes a gusset plate (7), for bending the tab (2) of two corners of a same side of the box. The gusset plate (7) is attached to a gear to provide it with an angular bending movement of the tab. This configuration allows for forming the two corners in a single operation of vertical displacement, in an upward/downward direction, of the frame (15) and angular displacement, in a forward/backward direction, of the gusset plate (7).

IPC 8 full level

B31B 50/46 (2017.01); **B31B 110/30** (2017.01)

CPC (source: EP ES)

B31B 50/46 (2017.07 - EP); **B31B 50/52** (2017.07 - ES); **B31B 2100/0024** (2017.07 - EP); **B31B 2110/30** (2017.07 - EP); **B31B 2120/502** (2017.07 - EP)

Cited by

CN109849427A; CN113246531A; CN110421896A; CN117984610A

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DOCDB simple family (publication)

EP 3284587 A1 20180221; **EP 3284587 B1 20190417**; ES 2655311 A1 20180219; ES 2655311 B1 20181113; ES 2729117 T3 20191030; PL 3284587 T3 20191031

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