

Title (en)
METHOD AND DEVICE FOR CONSTRUCTING PACKAGING BODIES WHICH ARE OPEN ON ONE SIDE USING AN OSCILLATING GRIPPER

Title (de)
VERFAHREN UND VORRICHTUNG ZUM BILDEN VON EINSEITIG OFFENEN PACKUNGSKOERPERN MIT EINEM OSZILLIERENDEN GREIFER

Title (fr)
PROCÉDÉ ET DISPOSITIF DE FABRICATION DE CORPS D'EMBALLAGE OUVERTS D'UN CÔTÉ À L'AIDE D'UN PRÉHENSEUR OSCILLANT

Publication
EP 3649052 A1 20200513 (DE)

Application
EP 18737233 A 20180702

Priority
• DE 102017114814 A 20170703
• EP 2018067746 W 20180702

Abstract (en)
[origin: WO2019007872A1] The invention relates to a device for at least partly folding up packaging casings (3, 63), preferably according to one of the claims 1 to 9, comprising a cartridge (22) with a stack (81) of packaging casings (3, 63). The packaging casings (3, 63) of the stack (81) are folded flat about at least two folding edges (65) running in the longitudinal direction of the packaging casings (3, 63), and a gripper is provided for gripping a packaging casing (3, 63) face facing away from the stack and moving the folding edges (6, 65) of the packaging casings (3, 63), in particular pulling the folding edges, along a withdrawal transport path (TB) into grooves (97) of at least one receiving area of a shaping station (84), and the grooves (97) are spaced such that the folding edges (6, 65) of the packaging casings (3, 63) are spaced apart farther in the cartridge (22) than in the grooves (97). The aim of the invention is to further prevent operational malfunctions and allow a more reliable production of packaging bodies which are open on one side from packaging casings which are open on both sides largely without malfunctions. This is achieved in that a drive (115) is paired with the gripper (93) and/or the grooves (97) for moving the packaging casing (3, 63) section gripped by the gripper (93) first along the withdrawal transport path (TB) over a groove plane (NE) which connects the grooves (97), then back over the groove plane (NE) opposite the withdrawal transport path (TB), and then again over the groove plane (NE) along the withdrawal transport path (TB).

IPC 8 full level
B65B 43/32 (2006.01); **B31B 50/28** (2017.01); **B31B 50/32** (2017.01); **B31B 50/78** (2017.01); **B65B 3/02** (2006.01); **B65B 7/16** (2006.01); **B65B 43/50** (2006.01); **B65B 61/24** (2006.01)

CPC (source: EP US)
B31B 50/024 (2017.07 - EP); **B31B 50/06** (2017.07 - US); **B31B 50/062** (2017.07 - EP); **B31B 50/322** (2017.07 - EP US); **B31B 50/782** (2017.07 - EP); **B31B 50/784** (2017.07 - US); **B31B 50/788** (2017.07 - EP US); **B65B 3/025** (2013.01 - EP US); **B65B 41/06** (2013.01 - US); **B65B 43/10** (2013.01 - US); **B65B 43/185** (2013.01 - EP US); **B65B 43/325** (2013.01 - EP US); **B65B 43/50** (2013.01 - EP US); **B65B 51/10** (2013.01 - EP US); **B65B 55/10** (2013.01 - EP US); **B65B 61/24** (2013.01 - EP US); **B31B 2105/0022** (2017.07 - EP US)

Citation (search report)
See references of WO 2019007872A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102017114814 A1 20190103; CN 111108040 A 20200505; CN 111108040 B 20210730; EP 3649052 A1 20200513; EP 3649052 B1 20210825; ES 2890948 T3 20220125; JP 2020525364 A 20200827; JP 6793265 B2 20201202; PL 3649052 T3 20211227; US 10946988 B2 20210316; US 2020180795 A1 20200611; WO 2019007872 A1 20190110

DOCDB simple family (application)
DE 102017114814 A 20170703; CN 201880044820 A 20180702; EP 18737233 A 20180702; EP 2018067746 W 20180702; ES 18737233 T 20180702; JP 2019571606 A 20180702; PL 18737233 T 20180702; US 201816627892 A 20180702