

Title (en)

METHOD AND TOOL FOR PRODUCING STRAPPED PACKAGES

Title (de)

VERFAHREN UND WERKZEUG ZUR HERSTELLUNG VON UMFREIFUNGSGEBINDEN

Title (fr)

PROCÉDÉ ET OUTIL POUR PRODUIRE DES EMBALLAGES DE CERCLAGE

Publication

**EP 4274784 A1 20231115 (DE)**

Application

**EP 22725487 A 20220426**

Priority

- DE 102021116337 A 20210624
- EP 2022061017 W 20220426

Abstract (en)

[origin: WO2022268379A1] The invention relates to a method and to a tool for producing strapped packages, in which at least two items (10) having deformable or flexible lateral surfaces are grouped and brought into a rectangular arrangement and kept together by at least one strapping band (26). In the method, firstly deformation forces (18) are applied to at least one short side (20) of the group (12) of items, which deformation forces act approximately uniformly on all items (10) of the group (12) of items. Subsequently, the strapping band (26) is placed on the group (12) of items deformed in this manner, wherein an overall length of the strapping band (26) corresponds to, or is minimally greater than, an overall periphery of the group (12) of items to which the deformation forces (18) are applied. The deformation forces (18) acting on the group (12) of items are then removed, as a result of which the lateral surfaces of the items elastically return to their original shape and bring about a defined band tensioning of the strapping band (26). The invention also relates to a tool for carrying out the method.

IPC 8 full level

**B65B 13/02** (2006.01); **B65B 13/20** (2006.01); **B65B 21/00** (2006.01); **B65B 27/04** (2006.01)

CPC (source: EP US)

**B65B 13/02** (2013.01 - EP US); **B65B 13/20** (2013.01 - EP US); **B65B 21/00** (2013.01 - EP); **B65B 27/04** (2013.01 - EP);  
**B65B 27/04** (2013.01 - US)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102021116337 A1 20221229**; CN 116745212 A 20230912; EP 4274784 A1 20231115; MX 2023009619 A 20230828;  
US 2024286780 A1 20240829; WO 2022268379 A1 20221229

DOCDB simple family (application)

**DE 102021116337 A 20210624**; CN 202280010142 A 20220426; EP 2022061017 W 20220426; EP 22725487 A 20220426;  
MX 2023009619 A 20220426; US 202218570238 A 20220426