

Title (en)

METHOD FOR TRANSFERRING AND INSERTING ARTICLES INTO OUTER PACKAGES, AND DEVICE FOR CARRYING OUT THE METHOD

Title (de)

VERFAHREN ZUM ÜBERFÜHREN UND EINSETZEN VON ARTIKELN IN UMVERPACKUNGEN UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE TRANSFERT ET D'INSERTION D'ARTICLES DANS DES SUREMBALLAGES ET DISPOSITIF DE MISE EN OEUVRE DU PROCÉDÉ

Publication

EP 3837177 A1 20210623 (DE)

Application

EP 18833075 A 20181228

Priority

- DE 102018119575 A 20180813
- EP 2018097121 W 20181228

Abstract (en)

[origin: WO2020035160A1] A method and a device are disclosed for transferring and inserting articles (12) into outer packages (16) which are open at their top and which each receive at least one article group (18) composed of several articles (12). In the method, at least one article group (18) is gripped as a group by means of at least one handling mechanism (46) and is inserted from above into one of the outer packages (16). During a process by which an article group (18) gripped by the handling mechanism (46) is inserted into the outer package (16), the article group (18) is compressed in terms of the spacings between at least some of the individual articles (12) of the article group (18) and is thereafter expanded.

IPC 8 full level

B65B 21/20 (2006.01); **B65B 21/06** (2006.01); **B65B 35/36** (2006.01)

CPC (source: EP US)

B65B 21/06 (2013.01 - EP US); **B65B 21/18** (2013.01 - US); **B65B 21/20** (2013.01 - EP US); **B65B 35/36** (2013.01 - EP US); **B65B 35/38** (2013.01 - EP US); **B65B 57/06** (2013.01 - EP US); **B65B 59/003** (2019.05 - EP); **B65B 59/003** (2019.05 - US); **B65G 2201/0244** (2013.01 - US)

Citation (examination)

DE 102007039850 A1 20090226 - KHS AG [DE]

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 102018119575 A1 20200213; CN 113286745 A 20210820; CN 113286745 B 20221206; EP 3837177 A1 20210623; US 11485530 B2 20221101; US 2021179303 A1 20210617; WO 2020035160 A1 20200220

DOCDB simple family (application)

DE 102018119575 A 20180813; CN 201880096693 A 20181228; EP 18833075 A 20181228; EP 2018097121 W 20181228; US 201817268020 A 20181228