

Title (en)

DEVICE AND METHOD FOR FOLDING OPEN, FILLING, AND CLOSING PACKING COVERINGS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM AUFFALTEN, BEFÜLLEN UND VERSCHLIESSEN VON PACKUNGSMÄNTELN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DÉPLIAGE, DE REMPLISSAGE ET DE FERMETURE D'ENVELOPPES D'EMBALLAGE

Publication

**EP 3019405 B1 20170816 (DE)**

Application

**EP 14727547 A 20140603**

Priority

- DE 102013107223 A 20130709
- EP 2014061439 W 20140603

Abstract (en)

[origin: WO2015003852A1] The invention relates to a device (14) for folding open, aseptically filling, and aseptically closing packing coverings (10), comprising: a conveying apparatus, which comprises a conveyor belt (15) and cells (16) connected to the conveyor belt (15) for transporting the packing coverings (10), an apparatus (17) for folding open the packing coverings and feeding the packing coverings (10) to the cells (16) of the conveying apparatus, an apparatus (21) for sterilising the packing coverings (10), an apparatus (22) for folding and closing the bottom surfaces (8) of the packing coverings (10), an apparatus (23) for filling the packing coverings (10) with contents, an apparatus (24) for folding and closing the gable surfaces (9) of the packing coverings (10), and an aseptic chamber (28). The invention further relates to a corresponding method. In order to achieve improved hygiene during the filling of composite packagings despite the most economical use of sterilising agent possible, it is proposed that the cells (16) are arranged within the aseptic chamber (28) at least in a partial region of the device (14), while the conveyor belt (15) is arranged outside the aseptic chamber (28).

IPC 8 full level

**B65B 55/02** (2006.01); **B65B 3/02** (2006.01); **B65B 5/06** (2006.01); **B65B 7/20** (2006.01); **B65B 43/10** (2006.01); **B65B 43/50** (2006.01); **B65B 55/04** (2006.01)

CPC (source: EP RU US)

**B65B 3/025** (2013.01 - EP US); **B65B 5/065** (2013.01 - EP US); **B65B 7/20** (2013.01 - US); **B65B 43/10** (2013.01 - US); **B65B 43/50** (2013.01 - US); **B65B 55/02** (2013.01 - RU); **B65B 55/025** (2013.01 - EP US); **B65B 55/027** (2013.01 - EP US); **B65B 55/04** (2013.01 - EP US); **B65B 55/04** (2013.01 - RU)

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

DOCDB simple family (publication)

**DE 102013107223 A1 20150115**; **DE 102013107223 B4 20171207**; AU 2014289560 A1 20151203; BR 112016000189 A2 20170829; CN 105377699 A 20160302; EP 3019405 A1 20160518; EP 3019405 B1 20170816; ES 2640107 T3 20171031; JP 2016527152 A 20160908; MX 2015017024 A 20160425; PL 3019405 T3 20171130; RU 2616817 C1 20170418; TW 201509753 A 20150316; US 2016376045 A1 20161229; WO 2015003852 A1 20150115; WO 2015003852 A9 20150319

DOCDB simple family (application)

**DE 102013107223 A 20130709**; AU 2014289560 A 20140603; BR 112016000189 A 20140603; CN 201480039334 A 20140603; EP 14727547 A 20140603; EP 2014061439 W 20140603; ES 14727547 T 20140603; JP 2016524715 A 20140603; MX 2015017024 A 20140603; PL 14727547 T 20140603; RU 2016104024 A 20140603; TW 103120200 A 20140611; US 201414903127 A 20140603