

Title (en)
PROCESS AND APPARATUS FOR GAS EXTRACTION IN PACKAGING

Title (de)
VERFAHREN UND VORRICHTUNG ZUR GASEXTRAKTION BEIM VERPACKEN

Title (fr)
PROCÉDÉ ET APPAREIL D'EXTRACTION DE GAZ DANS UN EMBALLAGE

Publication
EP 3215422 A1 20170913 (EN)

Application
EP 15785133 A 20151027

Priority
• EP 14191956 A 20141105
• EP 2015074878 W 20151027

Abstract (en)
[origin: WO2016071160A1] A packaging process comprising the steps of providing a semi-sealed package (23) containing a product (20) to be packaged, providing a vacuum chamber (353), adjusting a spacing between a first (351) and a second (352) member of the vacuum chamber (353) to open the vacuum chamber(353), relatively positioning the semi-sealed package (23) and the vacuum chamber (353) such that a terminal portion (236) of an end of the package (23) is positioned within the vacuum chamber (353) and a non-terminal portion (232) of the end is positioned outside the vacuum chamber (353), an intermediate portion (234) of the end passing through the opening (354), adjusting the spacing to bring the first (351) and second (352) members, except for the opening(354), substantially sealingly in contact with one another, the intermediate portion (234) being received in the opening (354), creating, within the vacuum chamber (353), an internal vacuum pressure such as to determine a gas flow through the opening (354) causing opposing layers of the film (21) at the second end to maintain a substantially spaced-apart configuration, and to aspirate both gas from inside the semi-sealed package (23) and gas from an ambient atmosphere through the opening (354). A gas extraction device and a packaging apparatus (1) including the device are also disclosed.

IPC 8 full level
B65B 31/02 (2006.01); **B65B 5/04** (2006.01); **B65B 7/02** (2006.01); **B65B 9/02** (2006.01); **B65B 9/073** (2012.01); **B65B 51/14** (2006.01); **B65B 53/02** (2006.01); **B65B 59/02** (2006.01); **B65B 61/02** (2006.01); **B65B 61/06** (2006.01); **B65B 65/00** (2006.01); **B65B 53/04** (2006.01); **B65B 53/06** (2006.01)

CPC (source: EP RU US)
B65B 9/026 (2013.01 - EP US); **B65B 9/073** (2013.01 - EP US); **B65B 31/02** (2013.01 - RU); **B65B 31/024** (2013.01 - EP US); **B65B 51/146** (2013.01 - EP US); **B65B 57/00** (2013.01 - EP); **B65B 61/02** (2013.01 - EP US); **B65B 61/065** (2013.01 - EP US); **B65B 65/006** (2013.01 - EP US); **B65B 53/04** (2013.01 - EP US); **B65B 53/063** (2013.01 - EP US); **B65B 59/001** (2019.05 - EP US)

Cited by
CN114802855A

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)
WO 2016071160 A1 20160512; AR 102557 A1 20170308; EP 3215422 A1 20170913; EP 3215422 B1 20180912; EP 3428076 A1 20190116; EP 3428076 B1 20200325; ES 2699448 T3 20190211; RU 2656360 C1 20180605; UA 123495 C2 20210414; US 2019193881 A1 20190627

DOCDB simple family (application)
EP 2015074878 W 20151027; AR P150103605 A 20151105; EP 15785133 A 20151027; EP 18193373 A 20151027; ES 15785133 T 20151027; RU 2017116050 A 20151027; UA A201704481 A 20151027; US 201515525318 A 20151027