

Title (en)

POUCH RESIDUAL AIR REDUCTION DEVICE

Title (de)

VORRICHTUNG ZUR RESTLUFTREDUKTION BEI EINEM BEUTEL

Title (fr)

DISPOSITIF DE RÉDUCTION DE L'AIR RÉSIDUEL DANS UN SACHET

Publication

EP 3177534 B1 20201007 (EN)

Application

EP 15829344 A 20150808

Priority

- US 201462035232 P 20140808
- US 2015044381 W 20150808

Abstract (en)

[origin: WO2016023012A2] The present disclosure relates to removing residual air in a packaged product. In particular, the present disclosure is directed to a residual air reduction device and to methods of using such device to reduce the amount of residual air in a packaged product. Such a device is employed during the manufacturing process to release air trapped in a product matrix and/or in a head space of the package as the package contacts the device. In some embodiments, the device and methods of the disclosure are useful in reducing residual air in a pouch package by at least 5% in comparison to a pouch package manufactured without use of the device and/or methods described herein.

IPC 8 full level

B65B 31/04 (2006.01); **B65B 3/04** (2006.01); **B65B 31/00** (2006.01); **B65B 43/46** (2006.01); **B65D 81/20** (2006.01)

CPC (source: EP US)

B65B 3/04 (2013.01 - EP US); **B65B 7/02** (2013.01 - US); **B65B 31/00** (2013.01 - EP US); **B65B 31/04** (2013.01 - US); **B65B 43/42** (2013.01 - US); **B65D 81/20** (2013.01 - US); **B65B 31/041** (2013.01 - EP US); **B65B 43/465** (2013.01 - EP 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

DOCDB simple family (publication)

WO 2016023012 A2 20160211; **WO 2016023012 A3 20160512**; EP 3177534 A2 20170614; EP 3177534 A4 20180314; EP 3177534 B1 20201007; US 2017305587 A1 20171026

DOCDB simple family (application)

US 2015044381 W 20150808; EP 15829344 A 20150808; US 201515502454 A 20150808