

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 A4 20180314 (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.

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Citation (search report)
• [XI] CH 376838 A 19640415 - LENGG KARL [CH]
• [XAYI] JP 2009298429 A 20091224 - TOYO JIDOKI KK
• [XYI] EP 2147774 A1 20100127 - TOYO JIDOKI KK [JP]
• [XI] US 2006037884 A1 20060223 - DOYLE STANLEY B [US], et al
• See references of WO 2016023012A2

Designated contracting state (EPC)
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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

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