

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  
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• 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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**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)

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