

Title (en)  
DEEP DRAW PACKAGING MACHINE AND METHOD

Title (de)  
TIEFZIEHVERPACKUNGSMASCHINE UND VERFAHREN

Title (fr)  
MACHINE D'EMBALLAGE PAR EMBOUTISSAGE ET PROCÉDÉ

Publication  
**EP 2746173 A1 20140625 (DE)**

Application  
**EP 13197517 A 20131216**

Priority  
DE 102012024725 A 20121218

Abstract (en)  
The deep-drawing packaging machine (1) has a forming station (2) that is provided for forming a trough (14) in a film (10), an insert station (3) and a sealing station (4). The sealing station is provided with a sealing tool. The retention device (20) is provided for holding the flexible and partly curved products (15) in the trough, such that a relative movement is provided between the retention device and the sealing tool along a production direction (R). An independent claim is included for a method for operating an intermittently working deep-drawing packaging machine for packing a group of flexible and partly curved products.

Abstract (de)  
Die Erfindung betrifft eine Tiefziehverpackungsmaschine (1) und ein Verfahren zum Betrieb einer Tiefziehverpackungsmaschine (1), die eine Einlegestation (3) und eine Versiegelstation (4) aufweist, um längliche Produkte in Mulden einzulegen und darin zu halten, bis eine Deckelfolie angeheftet wurde, um die Mulden abzudecken.

IPC 8 full level  
**B65B 47/06** (2006.01); **B65B 9/04** (2006.01); **B65B 47/04** (2006.01); **B65B 5/06** (2006.01); **B65B 7/16** (2006.01); **B65B 31/02** (2006.01); **B65B 35/38** (2006.01); **B65B 61/06** (2006.01); **B65B 61/08** (2006.01)

CPC (source: EP US)  
**B65B 9/04** (2013.01 - EP US); **B65B 47/04** (2013.01 - EP US); **B65B 5/06** (2013.01 - EP US); **B65B 31/028** (2013.01 - EP US); **B65B 35/38** (2013.01 - EP US); **B65B 61/065** (2013.01 - EP US); **B65B 61/08** (2013.01 - EP US)

Citation (search report)

- [XII] DE 2545739 A1 19760422 - METAL BOX CO LTD
- [XII] DE 2327286 A1 19731213 - MAHAFFY & HARDER ENG CO
- [XII] WO 2008129350 A1 20081030 - AROMA SYSTEM SRL [IT], et al
- [A] US 3129545 A 19640421 - SLOAN EDWARD C, et al

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)  
**EP 2746173 A1 20140625**; **EP 2746173 B1 20161130**; CN 103863600 A 20140618; CN 103863600 B 20161026;  
DE 102012024725 A1 20140618; ES 2610591 T3 20170428; US 2014165511 A1 20140619; US 9708083 B2 20170718

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**EP 13197517 A 20131216**; CN 201310700686 A 20131218; DE 102012024725 A 20121218; ES 13197517 T 20131216;  
US 201314133508 A 20131218