

Title (en)

Feeder for feeding lids in vacuum crimping machines

Title (de)

Vorrichtung zur Zuführung von Deckeln in Vakuumcrimpmaschinen

Title (fr)

Dispositif d'alimentation destiné aux membranes de machines de sertissage sous vide

Publication

**EP 2703302 A1 20140305 (EN)**

Application

**EP 12425143 A 20120830**

Priority

EP 12425143 A 20120830

Abstract (en)

A feeder (1a, 1b), particularly for feeding lids in vacuum crimping machines, comprising a passage channel (2) adapted to guide lids (3) to a crimping station (4) contained in a vacuum chamber (5). The passage channel (2) has a closed profile and passes through a wall (50) of the vacuum chamber (5) so as to connect the environment inside the vacuum chamber (5) to the outside environment. The peculiarity of the invention resides in that it comprises means (7) for pushing the lids (3) which are accommodated slidingly along the passage channel (2) so as to push the lids (3) along the passage channel (2). Advantageously, a hermetic seal is provided between the inner walls of the passage channel (2) and the pusher means (7) so as to prevent the air of the outside environment from filtering through the passage channel (2) into the vacuum chamber (5).

IPC 8 full level

**B21D 51/26** (2006.01); **B65B 7/28** (2006.01); **B65B 31/02** (2006.01)

CPC (source: EP)

**B65B 7/2807** (2013.01); **B65B 31/028** (2013.01); **B21D 51/2653** (2013.01); **B21D 51/2692** (2013.01); **B65B 7/2842** (2013.01)

Citation (search report)

- [X] DE 2900724 A1 19800724 - SIEMENS AG
- [X] GB 2143910 A 19850220 - BALZERS HOCHVAKUUM
- [XY] US 2011033267 A1 20110210 - ALBRECHT THOMAS [DE]
- [X] WO 2010046636 A2 20100429 - P2I LTD [GB], et al
- [Y] US 3674160 A 19720704 - GUTOWSKI CHESTER L
- [Y] US 3812641 A 19740528 - BEMISS R
- [Y] GB 1383507 A 19740212 - BRISTOL PACKAGING MACHINES LTD
- [Y] US 3872651 A 19750325 - LEONARD GEORGE E

Cited by

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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

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