

Title (en)
STERILE BAG-IN-BOX FILLING AND EMPTYING SYSTEM

Publication
EP 0190757 A3 19870429 (DE)

Application
EP 86101531 A 19860205

Priority
DE 3503916 A 19850206

Abstract (en)
[origin: EP0190757A2] In sterile bag-in-box filling and emptying systems for the storage, transportation and removal, even in stages, of liquids, such as pasteurised fruit beverages and the like, there is a risk of reinfection, with the result that not only the stored liquids frequently perish, but also the contents of the fruit yoghurt pots filled in relatively large quantities with said liquids. Additionally, great investment costs have to be raised for the equipment and high costs for cleaning and maintenance are incurred with each new filling of the current plants. In order to achieve greater safety from reinfection and to reduce the costs both for procurement and for current operation, the plastic bag (1) is hermetically sealed and produced in a sterile manner, and inserted into the valve unit (2), the opening of said bag having a circular sealing ring (3), the inside surface of which is provided with a sealing skin (4) which is removed when it is destroyed by the incoming liquid.

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B65D 90/04

IPC 8 full level
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CPC (source: EP)
B65D 90/046 (2013.01); **B65D 2590/046** (2013.01)

Citation (search report)

- [X] NL 8303120 A 19850401 - JAN LEONARD MEENS
- [A] US 2564163 A 19510814 - LUCIEN LEPPERRE JEAN EMILE
- [A] FR 2371355 A1 19780616 - GRAF GMBH OTTO [DE]
- [A] DE 1012864 B 19570725 - BERNHARD ZAMEK

Cited by
US5373872A; EP1719714A1; EP1724207A3; EP0798264A1; US6056158A; WO9605125A1; WO2023280509A1

Designated contracting state (EPC)
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