

Title (en)

Method and apparatus for filling liquids into plastic bags with a spout

Title (de)

Verfahren und Vorrichtung zum Abfüllen von Flüssigkeiten in Folienbeutel mit einer Tülle

Title (fr)

Procédé et dispositif de remplissage de produits liquides dans des sachets en film à tuyau

Publication

EP 1731426 B1 20070822 (DE)

Application

EP 05012577 A 20050610

Priority

EP 05012577 A 20050610

Abstract (en)

[origin: EP1731426A1] Vacuum is created in the foil bag (2) before filling foil bag with liquid. A filling orifice is introduced into a spout (3) of the foil bag, and the foil bag is filled with the liquid from the filling orifice. The liquid is removed from the filling orifice, after filling operation, and sterile gas is introduced into the foil bag. An independent claim is included for liquid filling apparatus.

IPC 8 full level

B65B 3/04 (2006.01); **B65B 31/04** (2006.01); **B65B 39/00** (2006.01)

CPC (source: EP KR US)

B65B 3/045 (2013.01 - EP KR US); **B65B 31/044** (2013.01 - EP KR US); **B65B 39/004** (2013.01 - EP KR US); **B67C 3/2608** (2013.01 - KR); **B67C 7/0073** (2013.01 - KR)

Cited by

KR100852235B1; EP4375230A1; FR3066480A1; CN110914158A; AU2018268334B2; EP3476750A1; IT201700120600A1; CN111315658A; WO2012008861A1; WO2019123030A1; WO2018211202A1; WO2008119467A1; US10710753B2; WO2024110549A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

EP 1731426 A1 20061213; EP 1731426 B1 20070822; AR 056379 A1 20071010; AT E370888 T1 20070915; BR PI0602401 A 20070221; CA 2545315 A1 20061210; CA 2545315 C 20091208; CN 100581923 C 20100120; CN 1876504 A 20061213; CY 1107761 T1 20130619; DE 502005001326 D1 20071004; DK 1731426 T3 20071112; ES 2290822 T3 20080216; HK 1100915 A1 20071005; HR P20070443 T3 20071231; JP 2006341928 A 20061221; JP 4380661 B2 20091209; KR 100852235 B1 20080813; KR 20060128697 A 20061214; PL 1731426 T3 20080229; PT 1731426 E 20070911; RU 2006113735 A 20071120; RU 2342292 C2 20081227; SA 06270173 B1 20090811; SI 1731426 T1 20071231; TW 200642909 A 20061216; TW I318611 B 20091221; UA 86210 C2 20090410; US 2006278302 A1 20061214; US 8499801 B2 20130806; ZA 200604634 B 20070328

DOCDB simple family (application)

EP 05012577 A 20050610; AR P060102413 A 20060609; AT 05012577 T 20050610; BR PI0602401 A 20060529; CA 2545315 A 20060428; CN 200610085025 A 20060530; CY 071101316 T 20071009; DE 502005001326 T 20050610; DK 05012577 T 20050610; ES 05012577 T 20050610; HK 07105820 A 20070601; HR P20070443 T 20070925; JP 2006153705 A 20060601; KR 20060051368 A 20060608; PL 05012577 T 20050610; PT 05012577 T 20050610; RU 2006113735 A 20060421; SA 06270173 A 20060610; SI 200530078 T 20050610; TW 95113404 A 20060414; UA A200606461 A 20060609; US 44365506 A 20060530; ZA 200604634 A 20060606