

Title (en)

METHOD FOR FILLING A MEDICAL PACKAGING, FILLING DEVICE, AND MEDICAL PACKAGING BAG

Title (de)

VERFAHREN ZUM BEFÜLLEN EINER MEDIZINISCHEN VERPACKUNG, BEFÜLLVORRICHTUNG, SOWIE ALS BEUTEL AUSGEBILDETE MEDIZINISCHE VERPACKUNG

Title (fr)

PROCÉDÉ DE REMPLISSAGE D'UN EMBALLAGE MÉDICAL, DISPOSITIF DE REMPLISSAGE AINSI QU'EMBALLAGE MÉDICAL SE PRÉSENTANT SOUS LA FORME D'UN SAC

Publication

EP 3684320 B1 20230607 (DE)

Application

EP 18773762 A 20180921

Priority

- EP 17192684 A 20170922
- EP 2018075647 W 20180921

Abstract (en)

[origin: WO2019057918A1] The invention relates to a method and to a device for filling a medical packaging formed as a pouch. Preferably, the packaging is filled with liquid via a port, wherein the port is aerated with a protective gas, such as nitrogen, for example, during filling. According to the invention, prior to filling with liquid, the packaging is filled with an inert gas, such as nitrogen, for example, which then provides the headspace of the filled and closed pouch. This results in a particularly low oxygen content in the headspace of the pouch.

IPC 8 full level

A61J 1/10 (2006.01); **A61J 1/14** (2023.01); **A61J 1/20** (2006.01)

CPC (source: EP KR US)

A61J 1/10 (2013.01 - EP KR US); **A61J 1/1431** (2015.05 - KR US); **A61J 1/1462** (2013.01 - EP KR US); **A61J 1/1468** (2015.05 - KR US); **A61J 1/1475** (2013.01 - KR); **A61J 1/1481** (2015.05 - KR US); **A61J 1/16** (2013.01 - EP KR US); **A61J 1/20** (2013.01 - KR US); **B65B 3/003** (2013.01 - EP KR US); **B65B 31/024** (2013.01 - US); **B65D 1/095** (2013.01 - KR US); **A61J 1/1481** (2015.05 - EP)

Citation (opposition)

Opponent : B. Braun Melsungen AG

- US 3977445 A 19760831 - WHITE TIMOTHY P
- JP 2014118157 A 20140630 - TOYO JIDOKI KK
- US 2012210675 A1 20120823 - MURRAY R CHARLES [US], et al
- WO 2015064153 A1 20150507 - OTSUKA PHARMA CO LTD [JP]
- JP 2004042961 A 20040212 - TOYO SEIKAN KAISHA LTD
- JP 2004262528 A 20040924 - TOYO SEIKAN KAISHA LTD
- EP 1241110 A1 20020918 - PFIZER PROD INC [US]
- JP 2006117586 A 20060511 - OTSUKA PHARMA FACTORY INC
- JP H01279018 A 19891109 - TOYO SEIKAN KAISHA LTD
- CN 102230567 A 20111102 - HUNAN FE PHARMACEUTICAL MECHINERY CO LTD
- US 2011207824 A1 20110825 - DOULEAU DIDIER [FR]
- "Anorganische Chemie II", 1 January 2016, HIRZEL VERLAG, ISBN: 978-3-7776-2498-3, article EBERHARD SCHWEDA: "10.4 Arbeiten unter Schutzgas", pages: 234 - 248, XP009554678
- ANONYMOUS: "ANORGANISCHE CHEMIE Laborübung 2012/13 CHE.132 Laborskriptum ", ANORGANISCHE CHEMIE LABORÜBUNG 2012/13 CHE.132 LABORSKRIPITUM, TU GRAZ, 25 August 2017 (2017-08-25), pages 1 - 82, XP093171250, Retrieved from the Internet <URL:https://web.archive.org/web/20170825191744if_/https://ftp.tugraz.at/pub/AnorgChem/CHE.132_1/Skriptum_12.pdf>
- ANONYMOUS: "Ageless Oxygen Absorber", PRODUCT BROCHURE AGELESS OXYGEN ABSORBER (HTTPS://WEB.ARCHIVE.ORG/WEB/20160508150157/HTTP://AGELESS.MGC-A.COM/PRODUCT/AGELESS/), MITSUBISHI GAS CHEMICAL COMPANY, INC., 16 March 2016 (2016-03-16), pages 1 - 32, XP093171256, Retrieved from the Internet <URL:https://web.archive.org/web/20160418075221if_/http://ageless.mgc-a.com:80/AGELESS%20brochure.pdf>

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

DOCDB simple family (publication)

WO 2019057918 A1 20190328; BR 112020000069 A2 20200707; CN 111107822 A 20200505; CN 111107822 B 20231024; EP 3684320 A1 20200729; EP 3684320 B1 20230607; EP 3684320 C0 20230607; KR 20200050942 A 20200512; US 11548665 B2 20230110; US 2020270003 A1 20200827

DOCDB simple family (application)

EP 2018075647 W 20180921; BR 112020000069 A 20180921; CN 201880061626 A 20180921; EP 18773762 A 20180921; KR 20207001290 A 20180921; US 201816646837 A 20180921