

Title (en)

Unfilled storage device for fluid, dispenser comprising the same and method for filling

Title (de)

Unbefüllter Flüssigkeitsspeicher, Spender mit einem solchen und Verfahren zum Befüllen

Title (fr)

Dispositif de stockage de liquide non rempli, distributeur en étant doté et procédé de remplissage

Publication

EP 2990127 B1 20181010 (DE)

Application

EP 14182729 A 20140828

Priority

EP 14182729 A 20140828

Abstract (en)

[origin: WO2016030196A1] The invention relates to an unfilled liquid reservoir (10) for use as part of a dispenser for dispensing pharmaceutical or cosmetic liquids, comprising - an outer housing (20) for placing on a dispensing head (80) of the dispenser and - a flexible bag (42) which is arranged within the outer housing (20) for receiving liquid before the dispensing process, said bag having an opening (48) for removing the liquid, wherein - an intermediate region (70) between the outer housing (20) and the bag (46) is connected to a surrounding area by a ventilation opening (24) which passes through a wall of the outer housing (20). The invention is characterized in that - the flexible bag (46) is provided in a stowed storage state in which the inner volume of the bag (46) is maximally 10% of the maximum inner volume of the bag within the outer housing.

IPC 8 full level

A61J 9/00 (2006.01); **A61J 9/04** (2006.01); **B05B 11/00** (2006.01); **B65D 77/06** (2006.01); **B65D 77/22** (2006.01); **B65D 83/00** (2006.01); **B67D 7/02** (2010.01)

CPC (source: EP US)

A45D 34/00 (2013.01 - US); **A61J 1/1443** (2013.01 - US); **A61J 9/001** (2013.01 - EP US); **A61J 9/04** (2013.01 - EP US); **B05B 11/00444** (2018.07 - EP US); **B05B 11/00446** (2018.07 - EP US); **B05B 11/026** (2023.01 - EP US); **B05B 11/048** (2013.01 - US); **B65B 39/00** (2013.01 - US); **B65D 83/0055** (2013.01 - EP US); **B67D 7/02** (2013.01 - US)

Citation (examination)

EP 2251093 A1 20101117 - F HOLZER GMBH [DE], 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

DOCDB simple family (publication)

EP 2990127 A1 20160302; **EP 2990127 B1 20181010**; US 2017247171 A1 20170831; WO 2016030196 A1 20160303

DOCDB simple family (application)

EP 14182729 A 20140828; EP 2015068587 W 20150812; US 201515504163 A 20150812