

Title (en)
DROP DISPENSING HEAD

Title (de)
TROPFENSPENDERAUSGABEKOPF

Title (fr)
TETE DE DISTRIBUTION DE LIQUIDE GOUTTE A GOUTTE

Publication
EP 2879966 B1 20180221 (FR)

Application
EP 13773332 A 20130806

Priority
• FR 1202192 A 20120806
• IB 2013001728 W 20130806

Abstract (en)
[origin: WO2014024029A1] The invention concerns a liquid dispensing head (1) which is designed to be mounted on a bottle for receiving liquid (2), and which comprises a filtering device (26) that forms an interface between the inside and the outside of that bottle (2). The filtering device (26) comprises tubular filters (30) which extend longitudinally to dip into the bottle (2). Said tubular filters are therefore, in particular, tubular filters (30) whereof the wall is formed from a membrane that is selectively permeable to a liquid to be expelled from the bottle (2), produced for that purpose from a hydrophilic material. For the intake of air to compensate for the expelled liquid, the membrane forming the wall of such a tubular filter is made from a hydrophobic material, so as to be selectively permeable to air. The hydrophobic membrane is furthermore a filter against bacteria.

IPC 8 full level
B65D 47/18 (2006.01); **A61F 9/00** (2006.01)

CPC (source: CN EP KR US)
A61J 1/065 (2013.01 - CN EP KR US); **A61J 1/1418** (2015.05 - KR); **A61J 1/1443** (2013.01 - CN); **A61J 1/145** (2015.05 - EP KR US); **A61J 1/1456** (2015.05 - EP KR US); **A61J 1/1481** (2015.05 - KR); **A61J 1/2075** (2015.05 - KR); **A61J 1/2082** (2015.05 - KR); **A61J 1/2086** (2015.05 - KR); **B65D 47/18** (2013.01 - CN EP KR US); **B65D 83/0094** (2013.01 - KR US); **A61J 1/1418** (2015.05 - EP US); **A61J 1/1481** (2015.05 - EP US); **A61J 1/2075** (2015.05 - EP US); **A61J 1/2082** (2015.05 - EP US); **A61J 1/2086** (2015.05 - EP US)

Citation (examination)
• EP 0617951 A2 19941005 - TOMEY TECHN CORP [JP]
• WO 2011095877 A1 20110811 - THEA LAB [FR], 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)
FR 2994162 A1 20140207; FR 2994162 B1 20140905; AR 092864 A1 20150506; AU 2013301315 A1 20150226; AU 2013301315 B2 20161103; BR 112015002196 A2 20170704; BR 112015002196 B1 20210713; BR 112015002196 B8 20210914; CA 2880175 A1 20140213; CA 2880175 C 20210720; CL 2015000175 A1 20150710; CN 104684815 A 20150603; CN 104684815 B 20160831; CO 7220325 A2 20150320; EA 028504 B1 20171130; EA 201590334 A1 20150529; EP 2879966 A1 20150610; EP 2879966 B1 20180221; ES 2670051 T3 20180529; HK 1210449 A1 20160422; IL 237022 B 20190228; JP 2015532613 A 20151112; JP 6250049 B2 20171220; KR 102126807 B1 20200625; KR 20150041108 A 20150415; MA 20150155 A1 20150529; MA 37843 B1 20160429; MX 2015001668 A 20150410; MX 354026 B 20180207; MY 168490 A 20181109; SG 11201500894Y A 20150429; TN 2015000035 A1 20160629; TW 201410234 A 20140316; TW I584803 B 20170601; UA 114206 C2 20170510; US 2015284173 A1 20151008; US 9487339 B2 20161108; WO 2014024029 A1 20140213

DOCDB simple family (application)
FR 1202192 A 20120806; AR P130102751 A 20130802; AU 2013301315 A 20130806; BR 112015002196 A 20130806; CA 2880175 A 20130806; CL 2015000175 A 20150123; CN 201380042150 A 20130806; CO 15052232 A 20150306; EA 201590334 A 20130806; EP 13773332 A 20130806; ES 13773332 T 20130806; HK 15111130 A 20151111; IB 2013001728 W 20130806; IL 23702215 A 20150201; JP 2015525953 A 20130806; KR 20157006016 A 20130806; MA 37843 A 20150209; MX 2015001668 A 20130806; MY PI2015700378 A 20130806; SG 11201500894Y A 20130806; TN 2015000035 A 20150123; TW 102128061 A 20130806; UA A201501991 A 20130806; US 201314420191 A 20130806