

Title (en)
DEVICE FOR VAPORIZING LIQUID

Title (de)
VORRICHTUNG ZUR VERDAMPFUNG VON FLÜSSIGKEIT

Title (fr)
DISPOSITIF DE VAPORISATION DE LIQUIDE

Publication
EP 3962309 A4 20230614 (EN)

Application
EP 20798989 A 20200422

Priority
• IN 201921016819 A 20190427
• IB 2020053785 W 20200422

Abstract (en)
[origin: WO202222087A1] Device (100) for vaporising liquid (216). The device (100) comprises a housing (102) and a pressure regulating member (206). The housing (102) defines a chamber (210) to store liquid (216), and the member (206) is engaged to the chamber (210). A first portion (206a) of the member (206) is exposed to the chamber (210), while a second portion (206b) is exposed to atmospheric pressure. The member (206) comprises of porous material, which absorbs the liquid (216), without any external energy input, when pressure inside the chamber (210) is sufficient to allow liquid (216) to partially overcome air barrier, without allowing the liquid (216) to leak into the atmosphere. Further, the material allows air from the atmosphere to enter the chamber (210) when pressure inside the chamber (210) drops to an extent that allows air to at least partially overcome liquid barrier formed by liquid (216) within some of the pores.

IPC 8 full level
A24F 40/485 (2020.01); **A24F 40/44** (2020.01); **A24F 40/70** (2020.01); **B65B 3/06** (2006.01); **A24F 40/10** (2020.01)

CPC (source: EP US)
A24F 40/10 (2020.01 - US); **A24F 40/42** (2020.01 - US); **A24F 40/44** (2020.01 - EP US); **A24F 40/485** (2020.01 - EP); **A24F 40/70** (2020.01 - EP); **A24F 40/10** (2020.01 - EP)

Citation (search report)
• [XAI] US 2017233114 A1 20170817 - CHRISTENSEN STEVEN [US], et al
• [IA] WO 2017028295 A1 20170223 - FONTEM HOLDINGS 1 BV [NL], et al
• [A] US 2018297047 A1 20181018 - TONG XINLIANG [CN]
• See references of WO 2020222087A1

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 2020222087 A1 20201105; CN 113950258 A 20220118; EP 3962309 A1 20220309; EP 3962309 A4 20230614;
IN 201921016819 A 20190621; US 2022304381 A1 20220929

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IB 2020053785 W 20200422; CN 202080030339 A 20200422; EP 20798989 A 20200422; IN 201921016819 A 20190427;
US 202017605006 A 20200422