

Title (en)
ATOMIZER, AND ELECTRONIC ATOMIZATION DEVICE THEREOF

Title (de)
ZERSTÄUBER UND ELEKTRONISCHE ZERSTÄUBUNGSVORRICHTUNG DAFÜR

Title (fr)
ATOMISEUR ET DISPOSITIF D'ATOMISATION ÉLECTRONIQUE ASSOCIÉ

Publication
EP 4151100 A4 20231025 (EN)

Application
EP 20935684 A 20201113

Priority

- CN 2020089825 W 20200512
- CN 2020114889 W 20200911
- CN 2020128817 W 20201113

Abstract (en)
[origin: EP4151100A1] The vaporizer includes: a liquid storage tank (4), configured to store liquid; a mounting base (1), including a vent channel (15) transmitting air to the liquid storage tank and a leaked liquid buffer structure (122) having a capillary force, where the leaked liquid buffer structure is in communication with the vent channel; and a vaporization core (2), including a porous substrate (21) and a heating element (22), where the porous substrate is in fluid communication with the liquid storage tank and absorbs liquid from the liquid storage tank through a capillary force; the heating element heats and vaporizes the liquid of the porous substrate; the vaporization core is located between the liquid storage tank and the leaked liquid buffer structure; and the leaked liquid buffer structure abuts against the porous substrate and is configured to reflux liquid leaked from the vent channel to the porous substrate.

IPC 8 full level
A24F 40/485 (2020.01); **A24F 40/42** (2020.01); **A24F 40/44** (2020.01); **A24F 40/10** (2020.01)

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

Citation (search report)

- [X] CN 110250576 A 20190920 - SHENZHEN SMOORE CO LTD & EP 3984390 A1 20220420 - SHENZHEN SMOORE TECHNOLOGY LTD [CN]
- [A] WO 2020081849 A2 20200423 - JUUL LABS INC [US]
- See references of WO 2021227413A1

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 4151100 A1 20230322; **EP 4151100 A4 20231025**; CN 113647680 A 20211116; CN 214710337 U 20211116; US 2023063069 A1 20230302; WO 2021227413 A1 20211118

DOCDB simple family (application)
EP 20935684 A 20201113; CN 202011270990 A 20201113; CN 2020128817 W 20201113; CN 202022640128 U 20201113; US 202217983260 A 20221108