

Title (en)
ATOMIZER AND ELECTRONIC ATOMIZATION DEVICE

Title (de)
ZERSTÄUBER UND ELEKTRONISCHE ZERSTÄUBUNGSVORRICHTUNG

Title (fr)
ATOMISEUR ET DISPOSITIF D'ATOMISATION ÉLECTRONIQUE

Publication
EP 4115754 A4 20230405 (EN)

Application
EP 20922599 A 20200304

Priority
CN 2020077743 W 20200304

Abstract (en)
[origin: EP4115754A1] Disclosed are an atomizer (1) and an electronic atomization device. A first intersection (1511) of the atomizer (1) and the electronic atomization device is located between a first air outlet (12) and an atomization assembly (14), and a second intersection (1512) is located between a first air inlet (11) and the atomization assembly (14). When the first air outlet (12) is subjected to a vaping action, an airflow flowing from the first air inlet (11) to the first air outlet (12) is generated in a first airflow channel (13), and the air pressure of the first airflow channel (13) at the second intersection (1512) is greater than the air pressure of a second airflow channel (151) at the second intersection (1512). Therefore, the pressure difference between the first airflow channel (13) and the second airflow channel (151) at the second intersection (1512) can drive an accumulated liquid in the first airflow channel (13) close to the second intersection (1512) to enter the second airflow channel (151) by means of the second intersection (1512) and be absorbed by a capillary liquid absorption structure (152), and the situation where the atomizer (1) and the electronic atomization device leak the liquid can be ameliorated.

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

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

Citation (search report)

- [XA] US 2018360116 A1 20181220 - SCHMIDT RENE [DE], et al
- [A] WO 202002924 A1 20200102 - NICOVENTURES TRADING LTD [GB]
- [A] US 2017119061 A1 20170504 - LI YONGHAI [CN], et al
- [A] KR 20160001725 U 20160523
- See references of WO 2021174438A1

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4115754 A1 20230111; EP 4115754 A4 20230405; US 2022408828 A1 20221229; WO 2021174438 A1 20210910

DOCDB simple family (application)
EP 20922599 A 20200304; CN 2020077743 W 20200304; US 202217823270 A 20220830