

Title (en)

ATOMIZER AND ELECTRONIC ATOMIZING DEVICE

Title (de)

ZERSTÄUBER UND ELEKTRONISCHE ZERSTÄUBUNGSVORRICHTUNG

Title (fr)

ATOMISEUR ET DISPOSITIF D'ATOMISATION ÉLECTRONIQUE

Publication

EP 4305977 A4 20240904 (EN)

Application

EP 22766396 A 20220311

Priority

- CN 202120513630 U 20210311
- CN 2022080439 W 20220311

Abstract (en)

[origin: EP4305977A1] This application provides a vaporizer and an electronic vaporization device. The vaporizer includes: a housing, having a liquid storage cavity formed therein; a vaporization assembly, having a vaporization surface and configured to vaporize a liquid substrate to generate an aerosol; a support, including a holding space configured to hold the vaporization assembly; a flexible seal element, having an interference fit region, and configured to provide a seal between the housing and the vaporization assembly through an interference fit of a partial region to prevent the liquid substrate from flowing out from the liquid storage cavity through a region other than the vaporization surface; and an air channel, configured to provide an airflow path for air to enter the liquid storage cavity, where the airflow path avoids the interference fit region, and the air channel includes a first part extending from an outer surface of the support to an inner surface of the holding space, and a second part extending between the seal element and a surface of the support. Through the vaporizer, air is supplemented to the liquid storage cavity through the air channel including an interference fit part that avoids the seal element, to relieve or balance a negative pressure of the liquid storage cavity.

IPC 8 full level

A24F 40/10 (2020.01); **A24F 40/40** (2020.01); **A24F 40/485** (2020.01)

CPC (source: EP US)

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

Citation (search report)

- [XA] CN 212590252 U 20210226 - SHENZHEN FIRST UNION TECH CO
- [E] EP 4285747 A1 20231206 - SHENZHEN FIRST UNION TECH CO [CN]
- [A] WO 2020259692 A1 20201230 - SHENZHEN FIRST UNION TECH CO [CN]
- [A] CN 210203317 U 20200331 - SHENZHEN FIRST UNION TECH CO
- See also references of WO 2022188874A1

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 4305977 A1 20240117; **EP 4305977 A4 20240904**; CN 215347020 U 20211231; US 2024148069 A1 20240509; WO 2022188874 A1 20220915

DOCDB simple family (application)

EP 22766396 A 20220311; CN 202120513630 U 20210311; CN 2022080439 W 20220311; US 202218549597 A 20220311