

Title (en)

ATOMIZER, ELECTRONIC ATOMIZATION DEVICE, AND SEALING ELEMENT FOR ATOMIZER

Title (de)

ZERSTÄUBER, ELEKTRONISCHE ZERSTÄUBUNGSVORRICHTUNG UND DICHELEMENT FÜR ZERSTÄUBER

Title (fr)

ATOMISEUR, DISPOSITIF D'ATOMISATION ÉLECTRONIQUE ET ÉLÉMENT D'ÉTANCHÉITÉ POUR ATOMISEUR

Publication

**EP 4166014 A4 20231206 (EN)**

Application

**EP 21826222 A 20210616**

Priority

- CN 202010545939 A 20200616
- CN 202120651505 U 20210331
- CN 2021100373 W 20210616

Abstract (en)

[origin: EP4166014A1] This application provides an atomizer, an electronic atomization device, and a seal element for an atomizer. The atomizer includes: a liquid storage cavity, configured to store a liquid substrate; a porous body, being in fluid communication with the liquid storage cavity to receive the liquid substrate; a heating element, combined with the porous body, and configured to heat at least a part of the liquid substrate in the porous body to generate an aerosol; a holder, configured to hold the porous body; and a seal element, arranged between the holder and the porous body, and configured to seal a gap between the holder and the porous body, where the seal element includes a plurality of side walls surrounding the porous body along a circumferential direction of the porous body and an upper end wall. The seal element includes convex ribs extending on outer surfaces of the plurality of side walls and the upper end wall or on inner surfaces of the plurality of side walls and the upper end wall, and the convex ribs are connected into at least one closed ring. The seal element can seal the porous body and the holder through the convex rib after assembly.

IPC 8 full level

**A24F 40/40** (2020.01); **A24F 40/10** (2020.01); **A24F 40/42** (2020.01); **A24F 40/44** (2020.01)

CPC (source: EP US)

**A24F 40/10** (2020.01 - US); **A24F 40/40** (2020.01 - EP); **A24F 40/42** (2020.01 - US); **A24F 40/485** (2020.01 - US); **A24F 40/10** (2020.01 - EP); **A24F 40/42** (2020.01 - EP); **A24F 40/44** (2020.01 - EP)

Citation (search report)

- [XAI] CN 109393570 A 20190301 - ANKER INNOVATIONS LTD
- [A] CN 210203316 U 20200331 - SHENZHEN FIRST UNION TECH CO & EP 3967165 A1 20220316 - SHENZHEN FIRST UNION TECH CO [CN]
- [A] CN 210726699 U 20200612 - CHANGZHOU PAITENG ELECTRONIC TECH SERVICE CO LTD
- [XP] CN 212852491 U 20210402 - SHENZHEN FIRST UNION TECH CO
- [E] EP 4233582 A1 20230830 - SHENZHEN FIRST UNION TECH CO [CN]
- See references of WO 2021254395A1

Cited by

EP4285752A4

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 4166014 A1 20230419**; **EP 4166014 A4 20231206**; US 2023240364 A1 20230803; WO 2021254395 A1 20211223

DOCDB simple family (application)

**EP 21826222 A 20210616**; CN 2021100373 W 20210616; US 202118011153 A 20210616