

Title (en)

ATOMIZING STRUCTURE, ATOMIZER AND AEROSOL GENERATING DEVICE

Title (de)

ZERSTÄUBUNGSSTRUKTUR, ZERSTÄUBER UND AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)

STRUCTURE D'ATOMISATION, ATOMISEUR ET DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication

EP 4223159 A1 20230809 (EN)

Application

EP 22213356 A 20221214

Priority

CN 202210032701 A 20220112

Abstract (en)

An atomizing structure (100), an atomizer, and an aerosol generating device are provided. The atomizing structure (100) includes a heating element (120) and an atomizing core assembly (110) including an atomizing portion (111) and a guiding portion (112). The heating element (120) is at least partially embedded in the atomizing portion (111), the atomizing portion (111) is fixed in the guiding portion (112), the atomizing portion (111) has an outer wall (116), the guiding portion (112) has an inner wall portion (112A), and the outer wall (116) is in partial contacted with the inner wall portion (112A), the guiding portion (112) is in contact with an atomizing medium, and is configured to transport the atomizing medium to the atomizing portion (111) through the inner wall portion (112A) and the outer wall (116) in sequence, the outer wall (116) forms a first atomizing surface, and a first air channel (191) for transporting the aerosol generated by the first atomizing surface is provided between the outer wall (116) and the inner wall portion (112A).

IPC 8 full level

A24F 40/44 (2020.01); **A24F 40/10** (2020.01); **A24F 40/46** (2020.01)

CPC (source: CN EP US)

A24F 40/10 (2020.01 - CN US); **A24F 40/40** (2020.01 - CN); **A24F 40/42** (2020.01 - CN); **A24F 40/44** (2020.01 - EP);
A24F 40/46 (2020.01 - CN US); **A24F 40/48** (2020.01 - CN); **A24F 40/485** (2020.01 - US); **A24F 40/10** (2020.01 - EP); **A24F 40/46** (2020.01 - EP)

Citation (search report)

- [XY] US 2018140018 A1 20180524 - HU SHUYUN [CN], et al
- [XYI] US 2017215481 A1 20170803 - LI YONGHAI [CN], et al
- [YA] EP 3210641 A1 20170830 - SHENZHEN FIRST UNION TECH CO [CN]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4223159 A1 20230809; CA 3184069 A1 20230712; CN 114376273 A 20220422; US 2023218000 A1 20230713

DOCDB simple family (application)

EP 22213356 A 20221214; CA 3184069 A 20221215; CN 202210032701 A 20220112; US 202218066751 A 20221215