

Title (en)
ELECTRONIC ATOMIZATION DEVICE, ATOMIZATION ASSEMBLY, ATOMIZATION ELEMENT AND MANUFACTURING METHOD THEREFOR

Title (de)
ELEKTRONISCHE ZERSTÄUBUNGSVORRICHTUNG, ZERSTÄUBUNGSANORDNUNG, ZERSTÄUBUNGSELEMENT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
DISPOSITIF D'ATOMISATION ÉLECTRONIQUE, ENSEMBLE D'ATOMISATION, ÉLÉMENT D'ATOMISATION ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication
EP 4111888 A4 20230823 (EN)

Application
EP 21761685 A 20210207

Priority
• CN 202010123152 A 20200227
• CN 2021075810 W 20210207

Abstract (en)
[origin: EP4111888A1] Disclosed are an electronic atomization device, an atomization assembly (100), an atomization element (40) and a manufacturing method therefor. The atomization element (40) comprises a porous matrix (42) and a heating layer, wherein the porous substrate (42) is provided with an atomization surface (422); and the heating layer covers the atomization surface (422). The heating layer comprises a conductive layer (44) and a stable layer (46), wherein the conductive layer (44) covers the atomization surface (422); and the stable layer (46) covers the surface of the conductive layer (44) away from the porous matrix (42). The resistivity of a material for preparing the stable layer (46) is lower than that of the conductive layer (44), and the oxidation resistance of the stable layer (46) is higher than that of the conductive layer (44), so as to solve the problem of the resistance value of the conductive layer (44) rising too quickly.

IPC 8 full level
A24F 40/46 (2020.01); **A24F 40/10** (2020.01)

CPC (source: EP US)
A24F 40/46 (2020.01 - EP US); **A24F 40/70** (2020.01 - EP US); **A24F 40/10** (2020.01 - EP)

Citation (search report)
• [XAI] CN 109414078 A 20190301 - SHENZHEN SMOORE TECHNOLOGY LTD & US 2021161207 A1 20210603 - LI PEI [CN], et al
• [A] US 2018007741 A1 20180104 - METZ SYBRANDUS JACOB [NL], et al
• [A] US 2017224021 A1 20170810 - XIANG ZHIYONG [CN]
• See also references of WO 2021169782A1

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 4111888 A1 20230104; **EP 4111888 A4 20230823**; CN 111387555 A 20200710; US 2022408817 A1 20221229;
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DOCDB simple family (application)
EP 21761685 A 20210207; CN 202010123152 A 20200227; CN 2021075810 W 20210207; US 202217822218 A 20220825