

Title (en)

AEROSOL GENERATION DEVICE, AND METHOD AND PROGRAM FOR OPERATING SAME

Title (de)

AEROSOLERZEUGUNGSVORRICHTUNG SOWIE VERFAHREN UND PROGRAMM ZU DEREN BETRIEB

Title (fr)

DISPOSITIF DE GÉNÉRATION D'AÉROSOL, ET PROCÉDÉ ET PROGRAMME POUR LE FAIRE FONCTIONNER

Publication

**EP 4118988 A1 20230118 (EN)**

Application

**EP 22193134 A 20180622**

Priority

- EP 22193134 A 20180622
- EP 18923708 A 20180622
- JP 2018023739 W 20180622

Abstract (en)

It is provided an aerosol generation device (100), comprising a storage unit (116A) that stores an aerosol source or an aerosol base material that retains the aerosol source; a load (132) that generates heat upon receipt of power supply from a power source and atomizes the aerosol source, characterized in that physical properties of the load (132) change when the load (132) is heated at a temperature achievable only when depletion of the aerosol source in the storage unit (116A) or the aerosol base material occurs, and a value related to the physical properties of the load (132) in a steady state when the load (132) is cooled after the temperature of the load (132) increases up to a temperature achievable only when depletion of the aerosol source occurs is different from a value related to the physical properties of the load (132) in a steady state before the temperature of the load (132) increases; a sensor (112) that outputs a value related to the physical properties of the load (132); and a control unit (106) configured to determine whether the depletion has occurred, based on the output value of the sensor (112) in a steady state after a temperature of the load (132) increases up to a temperature or higher, the temperature allowing the aerosol source to be atomized.

IPC 8 full level

**A24F 40/53** (2020.01); **A24F 40/10** (2020.01); **A24F 40/51** (2020.01)

CPC (source: EP)

**A24F 40/53** (2020.01); **A24F 40/10** (2020.01); **A24F 40/51** (2020.01)

Citation (applicant)

- WO 2017185355 A1 20171102 - HUIZHOU KIMREE TECHNOLOGY CO LTD SHENZHEN BRANCH [CN]
- WO 2017185356 A1 20171102 - HUIZHOU KIMREE TECHNOLOGY CO LTD SHENZHEN BRANCH [CN]
- WO 2017024477 A1 20170216 - HUIZHOU KIMREE TECHNOLOGY CO LTD SHENZHEN BRANCH [CN]
- WO 2017144191 A1 20170831 - PHILIP MORRIS PRODUCTS SA [CH]
- WO 2017084818 A1 20170526 - PHILIP MORRIS PRODUCTS SA [CH]

Citation (search report)

- [A] US 2017245551 A1 20170831 - REEVELL TONY [GB]
- [A] EP 2468117 A1 20120627 - PHILIP MORRIS PROD [CH]
- [A] US 2017245553 A1 20170831 - REEVELL TONY [GB]

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 3811803 A1 20210428**; **EP 3811803 A4 20210714**; **EP 3811803 B1 20221005**; EP 4118988 A1 20230118; JP 6869436 B2 20210512; JP WO2019244324 A1 20201217; WO 2019244324 A1 20191226

DOCDB simple family (application)

**EP 18923708 A 20180622**; EP 22193134 A 20180622; JP 2018023739 W 20180622; JP 2020525186 A 20180622