

Title (en)

AEROSOL GENERATOR, AND METHOD AND PROGRAM FOR ACTUATING SAME

Title (de)

AEROSOLGENERATOR SOWIE VERFAHREN UND PROGRAMM ZUR BETÄTIGUNG DESSELBEN

Title (fr)

GÉNÉRATEUR D'AÉROSOL ET PROCÉDÉ ET PROGRAMME D'ACTIONNEMENT ASSOCIÉS

Publication

EP 3701813 B1 20220112 (EN)

Application

EP 17929539 A 20171024

Priority

JP 2017038309 W 20171024

Abstract (en)

[origin: EP3701813A1] An aerosol generating apparatus is provided which prevents a retention unit for retaining an aerosol source supplied from a storage of the aerosol source from undergoing a temporary insufficiency of the aerosol source. An aerosol generating apparatus 100A includes a power supply 110, a load 132 that generates heat upon receipt of electric power from the power supply 110 and atomizes an aerosol source, an element 112 that is used to acquire a value related to a temperature of the load, a circuit 134 that electrically connects the power supply 110 and the load 132, a storage 116 that stores the aerosol source, a retention unit 130 that retains the aerosol source supplied from the storage 116 to allow the retained aerosol source to be in a feasible state of being heated by the load 132, and a control unit 106 configured to perform a control to increase a retaining quantity of the aerosol source retained by the retention unit 130 or a control to improve the possibility of increasing the retaining quantity, at least one of a time of starting a supply of the electric power from the power supply 110 to the load 132 and a time of completing the supply of the electric power from the power supply 110 to the load 132, upon detection of a dry state in which the temperature of the load 132 exceeds a boiling point of the aerosol source due to a condition where the storage 116 is capable of supplying the aerosol source while the aerosol source retained by the retention unit 130 is insufficient in quantity or upon detection of a sign of the dry state.

IPC 8 full level

A24F 40/57 (2020.01); **A24F 40/51** (2020.01); **A24F 40/53** (2020.01); **A24F 40/60** (2020.01)

CPC (source: EP KR RU US)

A24F 40/10 (2020.01 - KR US); **A24F 40/50** (2020.01 - KR); **A24F 40/51** (2020.01 - EP KR US); **A24F 40/53** (2020.01 - EP KR US); **A24F 40/57** (2020.01 - EP KR US); **A24F 40/60** (2020.01 - EP KR US); **A24F 47/00** (2013.01 - RU)

Citation (opposition)

Opponent : Imperial Tobacco Limited

- WO 2016150922 A2 20160929 - PHILIP MORRIS PRODUCTS SA [CH]
- EP 2468116 A1 20120627 - PHILIP MORRIS PROD [CH]
- EP 2468117 A1 20120627 - PHILIP MORRIS PROD [CH]
- WO 2017144374 A1 20170831 - PHILIP MORRIS PRODUCTS SA [CH]
- WO 2017144380 A1 20170831 - PHILIP MORRIS PRODUCTS SA [CH]
- WO 2016030661 A1 20160303 - NICOVENTURES HOLDINGS LTD [GB]
- WO 2012085203 A1 20120628 - PHILIP MORRIS PRODUCTS SA [CH], et al
- US 2017245551 A1 20170831 - REEVELL TONY [GB]
- WO 2012109371 A2 20120816 - CAPUANO SAMMY [US]
- US 8539959 B1 20130924 - SCATTERDAY MARK [US]
- CN 204070551 U 20150107 - SHENZHEN FIRST UNION TECH CO

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 3701813 A1 20200902; **EP 3701813 A4 20201118**; **EP 3701813 B1 20220112**; CN 111511229 A 20200807; CN 111511229 B 20240112; JP 6812570 B2 20210113; JP WO2019082262 A1 20200702; KR 102478727 B1 20221219; KR 20200075854 A 20200626; RU 2749257 C1 20210607; US 2020245687 A1 20200806; WO 2019082262 A1 20190502

DOCDB simple family (application)

EP 17929539 A 20171024; CN 201780096249 A 20171024; JP 2017038309 W 20171024; JP 2019549708 A 20171024; KR 20207014243 A 20171024; RU 2020116742 A 20171024; US 202016856067 A 20200423