

Title (en)  
AEROSOL GENERATION DEVICE, AND METHOD AND PROGRAM FOR OPERATING SAME

Title (de)  
AEROSOLERZEUGUNGSVORRICHTUNG UND VERFAHREN UND PROGRAMM ZUM BETRIEB DAVON

Title (fr)  
DISPOSITIF DE GÉNÉRATION D'AÉROSOL, ET PROCÉDÉ ET PROGRAMME POUR LE FAIRE FONCTIONNER

Publication  
**EP 3811803 B1 20221005 (EN)**

Application  
**EP 18923708 A 20180622**

Priority  
JP 2018023739 W 20180622

Abstract (en)  
[origin: EP3811803A1] aerosol generation device Provided is an aerosol generation device with which it is possible to inexpensively detect a shortage or depletion of an aerosol source with high accuracy. An aerosol generation device 100 comprises: a storage unit 116A in which an aerosol source is stored, or an aerosol substrate 116B in which the aerosol source is held; a load 132 that atomizes the aerosol source by means of heat generated by power supplied from a power source 110, and has a physical property that changes if the load 132 is heated to a temperature that can only be reached when the aerosol source in the storage unit 116A or the aerosol substrate 116B is depleted; a sensor 112 that outputs a value related to said physical property of the load 132; and a control unit 106 that is configured so as to determine depletion on the basis of the output value from the sensor 112 after the temperature of the load 132 has risen to or exceeded a temperature at which the aerosol source can be atomized.

IPC 8 full level  
**A24F 47/00** (2020.01); **A24F 40/53** (2020.01); **A61M 15/06** (2006.01)

CPC (source: EP)  
**A24F 40/53** (2020.01); **A24F 40/10** (2020.01); **A24F 40/51** (2020.01)

Citation (opposition)  
Opponent : Nicoventures Trading Limited  
• EP 2468117 A1 20120627 - PHILIP MORRIS PROD [CH]  
• US 2017245551 A1 20170831 - REEVELL TONY [GB]  
• WO 2015100361 A1 20150702 - PAX LABS INC [US]  
• EP 2468118 A1 20120627 - PHILIP MORRIS PROD [CH]  
• US 2004081624 A1 20040429 - NGUYEN TUNG T [US], et al  
• US 2016157523 A1 20160609 - LIU LOI YING [CN]  
• CN 104116138 A 20141029 - SHENZHEN SMOORE TECHNOLOGY LTD  
• EP 2468117 A1 20120627 - PHILIP MORRIS PROD [CH]  
• US 2017245551 A1 20170831 - REEVELL TONY [GB]  
• WO 2015100361 A1 20150702 - PAX LABS INC [US]  
• EP 2468118 A1 20120627 - PHILIP MORRIS PROD [CH]  
• US 2004081624 A1 20040429 - NGUYEN TUNG T [US], et al  
• US 2016157523 A1 20160609 - LIU LOI YING [CN]  
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Opponent : Philip Morris Products, SA  
• WO 2012085203 A1 20120628 - PHILIP MORRIS PRODUCTS SA [CH], et al  
• WO 2016030661 A1 20160303 - NICOVENTURES HOLDINGS LTD [GB]  
• WO 2012085205 A1 20120628 - PHILIP MORRIS PRODUCTS SA [CH], et al  
• US 2014014126 A1 20140116 - PELEG EYAL [IL], et al  
• US 2018020735 A1 20180125 - BILAT STEPHANE [CH], et al  
• CN 106136323 A 20161123 - SHENZHEN HANGSEN STAR TECHNOLOGY CO LTD, et al  
• WO 2017084818 A1 20170526 - PHILIP MORRIS PRODUCTS SA [CH]  
• WO 2012027350 A2 20120301 - ALELOV ELI [US]  
• WO 9501137 A1 19950112 - VOGES INNOVATION PTY LTD [AU], et al  
• US 2011226236 A1 20110922 - BUCHBERGER HELMUT [AT]  
• ANONYMOUS: "Wikipedia: Physical Property", WIKIPEDIA, 15 May 2018 (2018-05-15), pages 1 - 3, XP093063953, [retrieved on 20230714]

Designated contracting state (EPC)  
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**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