

Title (en)

AEROSOL GENERATING DEVICE, METHOD AND SYSTEM

Title (de)

AEROSOLERZEUGUNGSVORRICHTUNG, -VERFAHREN UND -SYSTEM

Title (fr)

SYSTÈME, PROCÉDÉ ET DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication

EP 4197361 A4 20240124 (EN)

Application

EP 21855579 A 20210811

Priority

- CN 202010801561 A 20200811
- CN 2021112105 W 20210811

Abstract (en)

[origin: EP4197361A1] This application provides an aerosol-generation device, and a method and system thereof. The aerosol-generation device includes a housing, having an opening; a cavity, configured to receive or remove an aerosol-generation product through the opening; a heater, configured to heat at least a part of the aerosol-generation product received in the cavity to generate an aerosol for inhalation; a color detection apparatus, configured to emit light to the cavity and detect reflection of the light to generate a color signal; and a controller, configured to obtain the color signal generated by the color detection apparatus, and generate a control signal according to the color signal to control operation of the heater. This application detects the insertion or removal of the aerosol-generation product into or from the cavity through the color detection apparatus, and then controls operation of the heater, which has a lower cost, simplifies the operation of the aerosol-generation device, and improves user experience.

IPC 8 full level

A24F 40/51 (2020.01); **A24F 40/20** (2020.01)

CPC (source: CN EP KR US)

A24F 40/40 (2020.01 - CN KR); **A24F 40/46** (2020.01 - CN KR US); **A24F 40/51** (2020.01 - EP KR US); **A24F 40/53** (2020.01 - KR); **A24F 40/57** (2020.01 - KR US); **A24F 40/60** (2020.01 - KR); **A24F 40/20** (2020.01 - EP KR US)

Citation (search report)

- [X] WO 2019185747 A1 20191003 - NICOVENTURES TRADING LTD [GB]
- [X] KR 20190143146 A 20191230 - EM TECH CO LTD [KR]
- See references of WO 2022033528A1

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 4197361 A1 20230621; **EP 4197361 A4 20240124**; CN 114073336 A 20220222; JP 2023537116 A 20230830; KR 20230045607 A 20230404; US 2023284706 A1 20230914; WO 2022033528 A1 20220217

DOCDB simple family (application)

EP 21855579 A 20210811; CN 202010801561 A 20200811; CN 2021112105 W 20210811; JP 2023509625 A 20210811; KR 20237006820 A 20210811; US 202118020934 A 20210811