

Title (en)

AEROSOL GENERATION DEVICE AND CONSUMABLE ARTICLE WITH THERMAL PROPERTIES RECOGNITION

Title (de)

AEROSOLERZEUGUNGSVORRICHTUNG UND VERBRAUCHSARTIKEL MIT ERKENNUNG VON THERMISCHEN EIGENSCHAFTEN

Title (fr)

DISPOSITIF DE GÉNÉRATION D'AÉROSOL ET ARTICLE CONSOMMABLE AYANT UNE RECONNAISSANCE DE PROPRIÉTÉS THERMIQUES

Publication

EP 4076055 A1 20221026 (EN)

Application

EP 20830227 A 20201218

Priority

- EP 19218786 A 20191220
- EP 2020087275 W 20201218

Abstract (en)

[origin: WO2021123348A1] An aerosol generation device (100) has an electrical interface (130) for connecting with an electrical interface (230) of the consumable article (200) for determining the temperature of a heat transfer element (220) of the consumable article. The aerosol generation device further comprises a heating element (120) having a contacting surface providing a thermal interface (110) and circuitry (140). The consumable article comprises the heat transfer element heated by contacting the heating element (120) at its thermal interface (210), an aerosol generation substrate (250) heated by the heat transfer element, and an electrical interface (230) in connection with the heat transfer element. When the consumable article is connected to the aerosol generation device, the aerosol generation device obtains the temperature of the heat transfer element by means of the electrical circuit formed between the circuitry of the aerosol generation device and the electrical interface of the consumable article.

IPC 8 full level

A24F 40/40 (2020.01); **A24F 40/46** (2020.01); **A24F 40/57** (2020.01)

CPC (source: EP US)

A24F 40/40 (2020.01 - EP); **A24F 40/42** (2020.01 - US); **A24F 40/46** (2020.01 - US); **A24F 40/57** (2020.01 - US); **A24F 40/10** (2020.01 - EP); **A24F 40/42** (2020.01 - EP); **A24F 40/46** (2020.01 - EP)

Citation (search report)

See references of WO 2021123348A1

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021123348 A1 20210624; CN 114727660 A 20220708; EP 4076055 A1 20221026; JP 2023506349 A 20230216; US 2023035271 A1 20230202

DOCDB simple family (application)

EP 2020087275 W 20201218; CN 202080081536 A 20201218; EP 20830227 A 20201218; JP 2022518863 A 20201218; US 202017786718 A 20201218