

Title (en)
AEROSOL GENERATION DEVICE

Title (de)
AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication
EP 4110111 A1 20230104 (EN)

Application
EP 21707287 A 20210226

Priority
• EP 20160260 A 20200228
• EP 2021054894 W 20210226

Abstract (en)
[origin: WO2021170832A1] An aerosol generating device (1) is described. The aerosol generating device includes: a housing (10); a tubular heating chamber (20) arranged to receive an aerosol substrate, the heating chamber operable to heat the aerosol substrate to generate an aerosol; an elongate battery (30); a frame (60) within the housing, the frame arranged to hold the battery and heating chamber within the frame such that the heating chamber and the battery are aligned end-on within the housing with a first end (21) of the tubular heating chamber facing a first end (31) of the battery; wherein the frame comprises a dividing wall (61) arranged between the first end of the battery and the adjacent first end of the heating chamber. By providing a tubular heating chamber and an elongate battery which are aligned end-on within the housing, the surface area of the thermal interface between the heating chamber and battery is significantly reduced, thereby reducing heat transfer to the battery. This further allows for a more compact, user-friendly arrangement but without increasing heat transfer to the battery, as would usually be associated with reducing the size of the device.

IPC 8 full level
A24F 40/40 (2020.01); **A24F 40/20** (2020.01); **A24F 40/70** (2020.01)

CPC (source: EP)
A24F 40/40 (2020.01); **A24F 40/70** (2020.01); **A24F 40/20** (2020.01)

Citation (search report)
See references of WO 2021170832A1

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 2021170832 A1 20210902; CN 115209752 A 20221018; EP 4110111 A1 20230104; JP 2023516948 A 20230421;
TW 202139868 A 20211101

DOCDB simple family (application)
EP 2021054894 W 20210226; CN 202180017171 A 20210226; EP 21707287 A 20210226; JP 2022551610 A 20210226;
TW 110106938 A 20210226