

Title (en)
AEROSOL DELIVERY DEVICE

Title (de)
AEROSOLABGABEVORRICHTUNG

Title (fr)
DISPOSITIF DE DISTRIBUTION D'AÉROSOL

Publication
EP 3711614 A1 20200923 (EN)

Application
EP 19164474 A 20190321

Priority
EP 19164474 A 20190321

Abstract (en)
An aerosol delivery device has a main body and a consumable part, each with their own casings. The consumable part has a first casing containing a reservoir for holding an aerosol precursor, the first casing also supporting a wick arranged to receive aerosol precursor from a reservoir in the consumable part of the device. The casing of the main body supports a heater, which heater makes abutting and bonded contact with an activation surface of the wick, so as to interact thermally with that activation surface. When the heater is active, aerosol precursor which has reached the activation surface of the wick is heated to form an aerosol, or a mixture of aerosol and vapour, which may then pass in an air flow to the user. The heater is supported in the second casing by a resilient sealing body, which seals to the second casing to be held thereby, and also releasably seals to the first casing. The first and second casings are separable, and when they are separated the sealing between the first casing and the resilient sealing body is released. Use of a resilient sealing body to support the heater allows that resilient sealing body to perform both a support function, and a sealing function, and allows the heater to separate from the consumable, and remain with the main body, when the consumable needs to be replaced, for example due to the aerosol precursor being consumed.

IPC 8 full level
A24F 47/00 (2020.01); **A61M 11/04** (2006.01); **A61M 15/06** (2006.01)

CPC (source: EP)
A24F 40/10 (2020.01); **A24F 40/40** (2020.01); **A24F 40/44** (2020.01); **A24F 40/46** (2020.01)

Citation (search report)

- [A] US 2017035109 A1 20170209 - LIU QIUMING [CN]
- [A] EP 2965642 A1 20160113 - SHENZHEN FIRST UNION TECH CO [CN]
- [A] US 2016143365 A1 20160526 - LIU QIUMING [CN]
- [A] EP 3020292 A1 20160518 - SHENZHEN FIRST UNION TECH CO [CN]

Cited by
US11910826B2; WO2023041487A1; WO2023078154A1

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

DOCDB simple family (publication)
EP 3711614 A1 20200923; EP 3941225 A1 20220126; EP 3941225 B1 20230607; EP 4245166 A2 20230920; EP 4245166 A3 20240403; WO 2020187936 A1 20200924

DOCDB simple family (application)
EP 19164474 A 20190321; EP 2020057339 W 20200317; EP 20715762 A 20200317; EP 23177698 A 20200317