

Title (en)

A HEATING SYSTEM FOR AN AEROSOL-GENERATING DEVICE

Title (de)

HEIZSYSTEM FÜR EINE AEROSOLERZEUGENDE VORRICHTUNG

Title (fr)

SYSTÈME DE CHAUFFAGE POUR DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication

EP 4042887 A1 20220817 (EN)

Application

EP 21156177 A 20210210

Priority

EP 21156177 A 20210210

Abstract (en)

Present invention relates to a heating system (100, 200, 300, 400, 500) for an aerosol-generating device, wherein the heating system (100, 200, 300, 400, 500) is electrically connected to a power source (230) to heat but not burn an aerosol-generating article (150, 250, 350, 450, 550) in a heating chamber (1120), comprising- A heating assembly, comprising a heating element (110, 210, 310, 410, 510) having a longitudinal axis, comprising a diameter slightly larger than the diameter of the aerosol-generating article (150, 250, 350, 450, 550), wherein the heating element (110, 210, 310, 410, 510) has a hollow cavity to allow the aerosol-generating article to longitudinally move through the hollow cavity of the heating element (110, 210, 310, 410, 510), wherein the heating element is made of a heat conducting material;- A driving assembly, comprising a guiding element (120, 220, 320, 420, 520) having a longitudinal axis, mechanically connected to the heating element (110, 210, 310, 410, 510) such that the longitudinal axis of the heating element (110, 210, 310, 410, 510) is configured substantially parallel to the guiding element (120, 220, 320, 420, 520) to allow the heating element (110, 210, 310, 410, 510) to be moved longitudinally in relation with the guiding element (120, 220, 320, 420, 520) so that the heating element (110, 210, 310, 410, 510) is moved in heating engagement with different portions of the aerosol-generating article (150, 250, 350, 450, 550) in the heating chamber (1120).The invention also relates to an aerosol-generating device comprising a heating system (100, 200, 300, 400, 500) as described above.

IPC 8 full level

A24F 40/46 (2020.01); **A24F 13/00** (2006.01)

CPC (source: EP)

A24F 13/00 (2013.01); **A24F 40/46** (2020.01); **A24F 40/20** (2020.01)

Citation (applicant)

- US 6532965 B1 20030318 - ABHULIMEN MICHAEL E [US], et al
- WO 2019064119 A1 20190404 - PHILIP MORRIS PRODUCTS SA [CH]
- WO 2019021119 A1 20190131 - PHILIP MORRIS PRODUCTS SA [CH]
- US 2019209792 A1 20190711 - NICOLL KENNETH ANDREW [AU], et al
- CN 209090043 U 20190712 - SHENZHEN IVPS TECH CO LTD

Citation (search report)

- [X] CN 111759013 A 20201013 - SHENZHEN MAISHI TECH CO LTD
- [XI] US 2019289908 A1 20190926 - WORM STEVE [US], et al
- [A] KR 20200045818 A 20200506 - EM TECH CO LTD [KR]
- [E] WO 2021105482 A1 20210603 - NICOVENTURES TRADING LTD [GB]
- [E] WO 2021037826 A1 20210304 - PHILIP MORRIS PRODUCTS SA [CH]
- [E] WO 2021025363 A2 20210211 - KT & G CORP [KR]
- [A] US 2020060340 A1 20200227 - HEJAZI VAHID [US], et al
- [A] US 2020093182 A1 20200326 - MONSALUD LUIS [US], et al

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 4042887 A1 20220817

DOCDB simple family (application)

EP 21156177 A 20210210