

Title (en)

HEATING ASSEMBLY AND AEROSOL GENERATING DEVICE HAVING THE HEATING ASSEMBLY

Title (de)

HEIZANORDNUNG UND AEROSOLERZEUGUNGSVORRICHTUNG MIT DIESER HEIZANORDNUNG

Title (fr)

ENSEMBLE DE CHAUFFAGE ET DISPOSITIF DE GÉNÉRATION D'AÉROSOL COMPRENANT L'ENSEMBLE DE CHAUFFAGE

Publication

EP 4159060 A4 20240731 (EN)

Application

EP 21814595 A 20210510

Priority

- CN 202010464876 A 20200527
- CN 2021092724 W 20210510

Abstract (en)

[origin: EP4159060A1] Embodiments provide a heating assembly and an aerosol generating device having the same. In the embodiments, the heating assembly includes a resistance heating element for converting electrical energy into internal energy; the resistance heating element is provided with a first electrically insulating substrate inside and/or outside, a surface of the first electrically insulating substrate and/or the resistance heating element is provided with an infrared layer for emitting infrared rays outward after being heated. The aerosol generating device includes a housing, the housing is provided with a smoking medium receptacle, the heating assembly, and a power source for supplying power to the heating assembly; the resistance heating element, the first electrically insulating substrate and the infrared layer of the heating assembly are jointly provided inside the smoking medium receptacle. The present disclosure can improve the heating efficiency and reduce the energy consumption, thereby improving the battery life of the power source.

IPC 8 full level

A24F 40/46 (2020.01); **H05B 3/26** (2006.01)

CPC (source: CN EP KR)

A24F 40/46 (2020.01 - CN EP KR); **H05B 3/03** (2013.01 - KR); **H05B 3/10** (2013.01 - KR); **H05B 3/12** (2013.01 - KR); **H05B 3/141** (2013.01 - EP KR); **H05B 3/148** (2013.01 - EP); **H05B 3/16** (2013.01 - KR); **H05B 3/265** (2013.01 - EP); **H05B 3/48** (2013.01 - EP); **A24F 40/20** (2020.01 - EP); **A24F 40/70** (2020.01 - KR); **H05B 2203/017** (2013.01 - EP KR); **H05B 2203/021** (2013.01 - EP); **H05B 2203/032** (2013.01 - EP)

Citation (search report)

- [X] CN 109674093 A 20190426 - CHINA TOBACCO ANHUI IND CO LTD
- [X] CN 108095203 A 20180601 - KUNMING NATAI TECH CO LTD
- [X] CN 207855048 U 20180914 - KUNMING NATAI TECH CO LTD
- [X] US 2017340010 A1 20171130 - BILAT STEPHANE [CH], et al
- [X] CN 109846093 A 20190607 - SHENZHEN FIRST UNION TECH CO
- [X] CN 208925253 U 20190604 - SHENZHEN MERIDIAN TECH CO LTD
- See also references of WO 2021238632A1

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 4159060 A1 20230405; **EP 4159060 A4 20240731**; CN 112369713 A 20210219; JP 2023512935 A 20230330; KR 20220143645 A 20221025; WO 2021238632 A1 20211202

DOCDB simple family (application)

EP 21814595 A 20210510; CN 202010464876 A 20200527; CN 2021092724 W 20210510; JP 2022543692 A 20210510; KR 20227024071 A 20210510