

Title (en)

HEATING ASSEMBLY AND AEROSOL FORMING DEVICE

Title (de)

HEIZANORDNUNG UND AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)

ENSEMble DE CHAUFFAGE ET DISPOSITIF DE FORMATION D'AÉROSOL

Publication

EP 4218447 A4 20240410 (EN)

Application

EP 21870831 A 20210526

Priority

- CN 202011010202 A 20200923
- CN 2021096133 W 20210526

Abstract (en)

[origin: EP4218447A1] A heating assembly (60) and an aerosol forming device (600). The heating assembly (60) comprises a substrate (61), at least one heating element (62), a first electrode (63a) and a second electrode (63b); the substrate (61) is configured to be at least partially inserted into an aerosol forming matrix (67), and the substrate (61) has a first end (M) and a second end (N); the at least one heating element (62) is embedded in the substrate (61), and the heating element (62) has a first connection end (E) and a second connection end (F) opposite to the first connection end (E); at least one of the first electrode (63a) and the second electrode (63b) extends from the first end (M) to the second end (N), one of the first electrode (63a) and the second electrode (63b) is electrically connected to the first connection end (E) and the other electrode is electrically connected to the second connection end (F); and the at least one heating element (62) is configured to be inserted into the aerosol forming matrix (67) and powered by the first electrode (63a) and the second electrode (63b) to generate heat. The heating assembly (60) can avoid the problem of failure caused by the heating element (62) falling off from the substrate (61) during high-temperature heating, thus greatly improving the reliability of the heating assembly (60).

IPC 8 full level

A24F 40/46 (2020.01); **H05B 3/06** (2006.01); **A24F 40/20** (2020.01)

CPC (source: CN EP KR)

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H05B 3/141 (2013.01 - EP KR); **H05B 3/16** (2013.01 - KR); **A24F 40/20** (2020.01 - EP); **H05B 2203/013** (2013.01 - EP);
H05B 2203/022 (2013.01 - EP)

Citation (search report)

- [XJ] KR 20190058436 A 20190529 - KOREA ELECTRONICS TECHNOLOGY [KR]
- [XJ] EP 3481145 A1 20190508 - SHENZHEN FIRST UNION TECH CO [CN]
- [XJ] CN 209732618 U 20191206 - SHANDONG HUALING ELECTRONICS CO LTD
- See references of WO 2022062444A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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