

Title (en)

POWER SUPPLY DEVICE AND AEROSOL GENERATION DEVICE

Title (de)

STROMVERSORGUNGSVORRICHTUNG UND AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)

DISPOSITIF D'ALIMENTATION ÉLECTRIQUE ET DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication

EP 4122334 A4 20240508 (EN)

Application

EP 21772442 A 20210318

Priority

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Abstract (en)

[origin: EP4122334A1] Disclosed is a power supply device (20). The power supply device (20) is used for an aerosol generation device (100). The aerosol generation device (100) comprises an atomizer (10) and the power supply device (20), wherein an airflow channel is formed inside the atomizer (10). The power supply device (20) comprises a power supply main body (21) and a sensor (23), wherein a sensing channel (2111), a filtering cavity (2112) and a communication hole (2121) are provided inside the power supply main body (21), the sensing channel (2111) and the filtering cavity (2112) are separated, and the communication hole (2121) is in communication with the sensing channel (2111) and the filtering cavity (2112); the sensor (23) is arranged in the sensing channel (2111), and the sensor (23) is used for detecting physical characteristics and suction signals of gas in the sensing channel (2111); a connecting end is arranged at one end of the power supply main body (21), the connecting end being used for being connected to the atomizer (10), and a through hole (221) being provided in the connecting end. The power supply device (20) can intercept solids and/or liquids entering the sensing channel (2111) from the communication hole (2121) and influencing the detection of the sensor (23). In addition, further disclosed is an aerosol generation device (100) using the power supply device (20).

IPC 8 full level

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CPC (source: EP US)

A24F 40/10 (2020.01 - US); **A24F 40/485** (2020.01 - EP US); **A24F 40/51** (2020.01 - EP US); **A24F 40/90** (2020.01 - US);
A24F 40/10 (2020.01 - EP)

Citation (search report)

- [XPI] EP 3689160 A1 20200805 - SHENZHEN SMOORE TECHNOLOGY LTD [CN]
- [XAI] WO 2018055334 A1 20180329 - NICOVENTURES HOLDINGS LTD [GB]
- [XAI] US 2018132536 A1 20180517 - HENRY JR RAYMOND CHARLES [US]
- [A] WO 2020002924 A1 20200102 - NICOVENTURES TRADING LTD [GB]
- See also references of WO 2021185313A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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