

Title (en)

VAPOR SUPPLY SYSTEM AND VAPORIZATION DEVICE

Title (de)

DAMPFZUFUHRSYSTEM UND VERDAMPFUNGSVORRICHTUNG

Title (fr)

SYSTÈME D'ALIMENTATION EN VAPEUR ET DISPOSITIF DE VAPORISATION

Publication

EP 4205573 A4 20240313 (EN)

Application

EP 21860520 A 20210827

Priority

- CN 202021848691 U 20200827
- CN 2021115052 W 20210827

Abstract (en)

[origin: EP4205573A1] Embodiments of this application relate to the field of e-cigarettes, and disclose a vapor supply system which can work normally and has a lower cost when a vaporization device and a power supply device are inserted rightly and reversely. The vaporization device includes a vaporizer and a first connection circuit. The power supply device includes a battery cell and a second connection circuit. The first connection circuit includes a data line port, a clock line port, two current input ports, a storage module connected to the data line port and the clock line port, and a bridge circuit connected between the storage module and the two current input ports. The second connection circuit includes two data transmission ports for corresponding connection to the data line port and the clock line port, a positive electrode output port and a negative electrode output port for corresponding connection to the two current input ports, and a controller connected to the two data transmission ports and two ends of the battery cell, where the controller is configured to control an output voltage of the battery cell to provide a directional current to the storage module through the bridge circuit when the vaporization device is engaged with the power supply device.

IPC 8 full level

A24F 40/95 (2020.01); **A24F 40/40** (2020.01); **A24F 40/90** (2020.01)

CPC (source: EP US)

A24F 40/10 (2020.01 - US); **A24F 40/40** (2020.01 - EP); **A24F 40/46** (2020.01 - US); **A24F 40/50** (2020.01 - US); **A24F 40/90** (2020.01 - EP); **A24F 40/95** (2020.01 - EP); **A24F 40/10** (2020.01 - EP); **A24F 40/50** (2020.01 - EP)

Citation (search report)

- [Y] US 2020077700 A1 20200312 - ALARCON RAMON [US], et al
- [Y] US 2015208729 A1 20150730 - MONSEES JAMES [US], et al
- [A] US 2015333542 A1 20151119 - ALARCON RAMON [US], et al
- [A] US 2018020727 A1 20180125 - HOFFMAN ADAM [US], et al
- See also references of WO 2022042688A1

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 4205573 A1 20230705; **EP 4205573 A4 20240313**; CN 213819833 U 20210730; US 2024023623 A1 20240125; WO 2022042688 A1 20220303

DOCDB simple family (application)

EP 21860520 A 20210827; CN 202021848691 U 20200827; CN 2021115052 W 20210827; US 202118023716 A 20210827