

Title (en)

VAPORIZER FOR AN ELECTRONIC CIGARETTE

Title (de)

VERDAMPFER FÜR EINE ELEKTRONISCHE ZIGARETTE

Title (fr)

VAPORISATEUR POUR UNE CIGARETTE ÉLECTRONIQUE

Publication

EP 4021219 A1 20220706 (EN)

Application

EP 20761591 A 20200828

Priority

- EP 19194628 A 20190830
- EP 2020074088 W 20200828

Abstract (en)

[origin: WO2021038046A1] The present invention relates to a vaporizer (50; 150) for an electronic cigarette (1000), the vaporizer (50; 150) being fluidically connectable to a liquid store (20) and electrically connectable to a power supply unit (70) in an electronic cigarette (1000), the vaporizer (50; 150) comprising: at least one heating element (12-i) being connectable to the power supply unit (70), an absorbing structure (10; 110; 210; 310; 410) comprising at least one channel (13-i; 113-i; 313; 413) configured to receive liquid from the liquid store (20) and conduct the liquid to the at least one heating element (12-i), a pair of electrical contacts (14-1b, 14-1c; 214-1b, 214-1c) arranged about the sides of said at least one channel (13-i; 113-i; 313; 413), wherein the electrical contacts (14-1b, 14-1c; 214-1b, 214-1c) are connectable to an electrical control circuitry (60) when arranged in the electronic cigarette (1000) and wherein the electrical contacts (14-1b, 14-1c; 214-1b, 214-1c) are configured to establish a closed circuit and enable a power supply to the at least one heating element (12-i) only when liquid is present in the at least one channel (13-i).

IPC 8 full level

A24F 40/10 (2020.01); **A24F 40/44** (2020.01)

CPC (source: EP US)

A24F 40/10 (2020.01 - EP US); **A24F 40/42** (2020.01 - US); **A24F 40/44** (2020.01 - EP US); **A24F 40/46** (2020.01 - US); **A24F 40/50** (2020.01 - US)

Citation (search report)

See references of WO 2021038046A1

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)

WO 2021038046 A1 20210304; CN 114340416 A 20220412; EP 4021219 A1 20220706; JP 2022546262 A 20221104; TW 202123828 A 20210701; US 2022295877 A1 20220922

DOCDB simple family (application)

EP 2020074088 W 20200828; CN 202080060914 A 20200828; EP 20761591 A 20200828; JP 2022510147 A 20200828; TW 109129515 A 20200828; US 202017639106 A 20200828