

Title (en)
ELECTRONIC CIGARETTE AND AIRFLOW SWITCH BRACKET, AIRFLOW SWITCH ASSEMBLY AND POWER SUPPLY APPARATUS THEREOF

Title (de)
ELEKTRONISCHE ZIGARETTE UND LUFTSTROMSCHALTERHALTERUNG, LUFTSTROMSCHALTERANORDNUNG UND STROMVERSORGUNGSVORRICHTUNG DAFÜR

Title (fr)
CIGARETTE ÉLECTRONIQUE ET SUPPORT DE COMMUTATEUR D'ÉCOULEMENT D'AIR, ENSEMBLE COMMUTATEUR D'ÉCOULEMENT D'AIR ET APPAREIL D'ALIMENTATION ÉLECTRIQUE ASSOCIÉ

Publication
EP 3981271 A4 20220706 (EN)

Application
EP 19937071 A 20190708

Priority
CN 2019095121 W 20190708

Abstract (en)
[origin: EP3981271A1] Disclosed are an electronic cigarette and its airflow switch bracket, airflow switch assembly and power supply device. The airflow switch bracket includes a base, a bottom surface of the base being provided with a groove for accommodating an airflow switch, the groove extending from the bottom surface of the base toward a top surface of the base so that a thin-walled layer sealed on the groove is formed on the top surface of the base. The thin-walled layer is deformable when an air flow passes by, so that a negative pressure is generated in a space between the groove and the airflow switch to control the on/off of the airflow switch. The airflow switch bracket of the invention adopts a thin-walled layer to replace the arrangement of through holes, and thus the airflow switch bracket is configured as a closed bracket. In the electronic cigarette, the thin-walled layer can be deformed when the airflow passes by, thereby controlling the on/off of the airflow switch. It can effectively prevent tobacco juice from leaking to the airflow switch or contaminating the adapter board or a battery, thereby effectively increasing the service life and safety performance of the electronic cigarette.

IPC 8 full level
A24F 47/00 (2020.01); **A24F 40/485** (2020.01)

CPC (source: EP US)
A24F 40/485 (2020.01 - EP US); **A24F 40/50** (2020.01 - US); **A24F 40/10** (2020.01 - EP)

Citation (search report)

- [XAI] CN 204556034 U 20150812 - NEWNAGY TANGSHAN LLC
- [XAI] CN 101524187 B 20101201 - WANJIA TONGDA TECHNOLOGY BEIJING CO LTD
- [XAI] CN 208676373 U 20190402 - SHENZHEN IVPS TECH CO LTD
- See references of WO 2021003641A1

Designated contracting state (EPC)
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EP 3981271 A1 20220413; **EP 3981271 A4 20220706**; US 2022248766 A1 20220811; WO 2021003641 A1 20210114

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