

Title (en)
AEROSOL GENERATION DEVICE AND PUSHING MECHANISM

Title (de)
AEROSOLERZEUGUNGSVORRICHTUNG UND SCHIEBEMECHANISMUS

Title (fr)
DISPOSITIF DE GÉNÉRATION D'AÉROSOL ET MÉCANISME DE POUSSÉE

Publication
EP 4082365 A4 20231004 (EN)

Application
EP 19957909 A 20191227

Priority
CN 2019129302 W 20191227

Abstract (en)
[origin: EP4082365A1] The present disclosure discloses an aerosol generation device and a pushing mechanism. The aerosol generation device includes a receiving tube fixed disposed therein and configured for receiving a cigarette, and the receiving tube includes a first end configured for an insertion of the cigarette. The aerosol generation device further includes a driving mechanism cooperated with the receiving tube to push the cigarette out of the receiving tube, and the driving mechanism includes a driving member including a push portion cooperated with the receiving tube. The push portion is capable of being received in the receiving tube and abutted against the bottom of cigarette, and is movable relative to the receiving tube between a first position adjacent to the first end and a second position away from the first end, so as to push cigarette out of the receiving tube. The aerosol generation device can push the cigarette out of the receiving tube, so that the cigarette does not need to be pulled out by a user, thereby preventing the cigarette from being broken apart, and reducing residues of the cigarette leaved on the heating assembly.

IPC 8 full level
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Citation (search report)

- [X] US 5726421 A 19980310 - FLEISCHHAUER GRIER S [US], et al
- [X] WO 2019228431 A1 20191205 - SHENZHEN YUYAN INDUSTRIAL LTD [CN]
- [A] CN 110547509 A 20191210 - CHINA TOBACCO HUNAN IND CO LTD
- [A] WO 2019206334 A1 20191031 - SHENZHEN YUYAN INDUSTRIAL LTD [CN] & US 2021059306 A1 20210304 - CHEN BIN [CN], et al
- [A] CN 110547507 A 20191210 - SHENZHEN YUYAN IND CO LTD
- See also references of WO 2021128296A1

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