

Title (en)
SMOKING APPARATUS FOR ENHANCING HEAT EXCHANGE EFFECT

Title (de)
RAUCHVORRICHTUNG ZUR VERBESSERUNG DES WÄRMEAUSTAUSCHEFFEKTES

Title (fr)
APPAREIL À FUMER PERMETTANT D'AMÉLIORER L'EFFET D'ÉCHANGE DE CHALEUR

Publication
EP 3942949 A4 20220601 (EN)

Application
EP 20927028 A 20200929

Priority
CN 2020118752 W 20200929

Abstract (en)
[origin: EP3942949A1] The present disclosure relates to the field of novel cigarette smoking utensil, and in particular, to a smoke generating device with enhanced heat exchange effect. The smoke generating device includes: a cigarette introduction pipe (1); the cigarette introduction pipe (1) is disposed at the upper end of the smoke generating device, with a hollow tubular structure, its internal cavity is an air-mixing cavity (1D), which is divided into an upper duct (1F) and a lower duct (1J), and at least one heat insulation pad is disposed between the upper duct (1F) and the lower duct (1J). In the present disclosure, for the first time, the cigarette introduction pipe is designed with two separable parts-the upper and lower duct, the heat insulation pad performs relative heat insulation on the upper duct and the lower duct, further playing the role of reducing the heat transmitting from the lower heating cup and heating element to the upper part. Thus, the temperature of the upper duct in contact with the cigarette filter rod is lower, which greatly reduces heat shrinkage or collapse caused by the material of the supporting section of the cigarette filter rod in contact with the cigarette introduction pipe of the smoke generating device that cannot withstand high temperature of the heating body.

IPC 8 full level
A24F 40/40 (2020.01)

CPC (source: EP)
A24F 40/485 (2020.01); **A24F 40/20** (2020.01)

Citation (search report)
• [A] CN 111436662 A 20200724 - CHINA TOBACCO YUNNAN IND CO LTD
• [A] CN 111449302 A 20200728 - SHENZHEN CHANGNENG HUIKE TECH CO LTD
• [A] CN 206923683 U 20180126 - CHINA TOBACCO HUNAN IND CO LTD
• [A] US 2019261688 A1 20190829 - QIU WEIHUA [CN], et al
• [A] US 2019191769 A1 20190627 - QIU WEIHUA [CN]
• See references of WO 2021189801A1

Designated contracting state (EPC)
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