

Title (en)

SMOKE GENERATING DEVICE FOR INDUCTION HEATING IN FOLDING AIR CHANNEL

Title (de)

RAUCHERZEUGUNGSVORRICHTUNG ZUM INDUKTIONSERWÄRMEN IN EINEM FALTLUFTKANAL

Title (fr)

DISPOSITIF DE GÉNÉRATION DE FUMÉE POUR UN CHAUFFAGE PAR INDUCTION DANS UN CANAL D'AIR PLIABLE

Publication

EP 4000433 A1 20220525 (EN)

Application

EP 20928055 A 20200928

Priority

CN 2020118484 W 20200928

Abstract (en)

The present disclosure relates to the field of novel cigarette smoking utensil, and in particular, to a smoke generating device with induction heating in a folded airway. The smoke generating device includes: a cigarette introduction pipe (1), an induction coil (3), a heating cup (5), a heating element (6) and a magnetic sealing element (7); wherein the cigarette introduction pipe (1) is disposed at the upper end of the smoke generating device with a hollow tubular structure, and its internal cavity is an air-mixing cavity (1D), the diameter of the air-mixing cavity (1D) is greater than that of the inner cavity of the heating cup (5), a gap is provided between the inner wall of the cigarette introduction pipe (1) and the upper end of the heating cup (5) as an air inlet channel (1A). The present disclosure folds the original "heating body + cigarettes" with a reduced space axial length, so as to reduce the axial length of the heating part of the smoke generating device. The heating element (6) of the present disclosure is disposed in the airway in a folded reciprocating form, which not only increases the length of the airflow channel, but also reduces the axial length of the smoke generating device.

IPC 8 full level

A24F 40/465 (2020.01); **A24F 40/53** (2020.01); **A24F 40/57** (2020.01)

CPC (source: EP KR)

A24F 40/465 (2020.01 - EP KR); **A24F 40/485** (2020.01 - KR); **A24F 40/51** (2020.01 - KR); **H05B 6/108** (2013.01 - EP); **H05B 6/36** (2013.01 - KR); **A24D 1/20** (2020.01 - KR); **A24F 40/20** (2020.01 - KR)

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)

EP 4000433 A1 20220525; **EP 4000433 A4 20220921**; **EP 4000433 B1 20231101**; JP 2022553472 A 20221223; JP 7285333 B2 20230601; KR 102573417 B1 20230901; KR 20220044159 A 20220406; WO 2022061911 A1 20220331

DOCDB simple family (application)

EP 20928055 A 20200928; CN 2020118484 W 20200928; JP 2021560253 A 20200928; KR 20217031226 A 20200928