

Title (en)

AEROSOL GENERATION DEVICE, HEATER FOR SAME, AND PREPARATION METHOD

Title (de)

AEROSOLERZEUGUNGSVORRICHTUNG, HEIZER DAFÜR UND HERSTELLUNGSVERFAHREN

Title (fr)

DISPOSITIF DE GÉNÉRATION D'AÉROSOL, DISPOSITIF DE CHAUFFAGE POUR CELUI-CI ET PROCÉDÉ DE PRÉPARATION

Publication

EP 4349192 A1 20240410 (EN)

Application

EP 22815362 A 20220602

Priority

- CN 202110626465 A 20210604
- CN 2022096910 W 20220602

Abstract (en)

This application provides a vapor generation device, a heater for a vapor generation device, and a manufacturing method. The vapor generation device includes: a cavity, configured to receive an aerosol-forming article; and a heater, at least partially extending in the cavity, and configured to heat the aerosol-forming article, where the heater includes: a shell, having a hollow extending in an axial direction; a resistor heating element, located in the hollow; and an insulator, formed by a molten precursor material solidified or cured in the hollow, and configured to provide electrical insulation between the resistor heating element and the shell. In the foregoing vapor generation device, the insulator is formed through solidification after melting, and the insulator can be completely permeated to a gap or an interval between an inner wall of the shell of the heater and the resistor heating element, so that basically complete insulation is achieved between the shell and the resistor heating element. In addition, the consistency and yield of insulation in mass production and manufacturing can be improved.

IPC 8 full level

A24F 40/46 (2020.01); **A24F 40/20** (2020.01); **A24F 40/40** (2020.01); **H05B 3/18** (2006.01); **H05B 3/48** (2006.01); **H05B 3/52** (2006.01)

CPC (source: CN EP)

A24F 40/10 (2020.01 - CN); **A24F 40/40** (2020.01 - CN); **A24F 40/46** (2020.01 - CN EP); **H05B 3/04** (2013.01 - EP); **H05B 3/141** (2013.01 - EP); **H05B 3/145** (2013.01 - EP); **H05B 3/48** (2013.01 - EP); **A24F 40/20** (2020.01 - EP); **H05B 2203/017** (2013.01 - EP); **H05B 2203/022** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4349192 A1 20240410; CN 115428987 A 20221206; WO 2022253323 A1 20221208

DOCDB simple family (application)

EP 22815362 A 20220602; CN 202110626465 A 20210604; CN 2022096910 W 20220602