

Title (en)  
AEROSOL GENERATING DEVICE

Title (de)  
AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication  
**EP 4218441 A4 20240320 (EN)**

Application  
**EP 21871602 A 20210924**

Priority  
• CN 202022148217 U 20200925  
• CN 2021120353 W 20210924

Abstract (en)  
[origin: EP4218441A1] This application provides an aerosol generation device, configured to heat an aerosol-forming article to generate an aerosol for inhalation, the device including a housing, where the housing is internally provided with: a cavity; at least one heater, configured to heat the aerosol-forming article; and a support mechanism, constructed to surround at least a part of the cavity, where an inner surface of the support mechanism is provided with a plurality of first protrusions and a plurality of second protrusions spaced along a circumferential direction to clamp the aerosol-forming article received in the cavity; and the plurality of first protrusions and the plurality of second protrusions are arranged sequentially along an axial direction of the support mechanism. The above aerosol generation device simultaneously clamps the aerosol-forming article at different heights through double-layer protrusions inside, so that the aerosol-forming article can be stably received in the aerosol generation device, and then stably transfer heat with a heater.

IPC 8 full level  
**A24F 40/42** (2020.01); **A24F 40/20** (2020.01); **A24F 40/40** (2020.01); **A24F 40/46** (2020.01)

CPC (source: EP US)  
**A24F 40/40** (2020.01 - EP); **A24F 40/46** (2020.01 - US); **A24F 40/20** (2020.01 - EP); **A24F 40/485** (2020.01 - US)

Citation (search report)  
• [XA] US 2020154765 A1 20200521 - LEE JONG SUB [KR], et al  
• [XP] WO 2021122705 A1 20210624 - PHILIP MORRIS PRODUCTS SA [CH]  
• [XP] WO 2020249661 A1 20201217 - PHILIP MORRIS PRODUCTS SA [CH]  
• [IP] WO 2021143835 A1 20210722 - SHENZHEN FIRST UNION TECH CO [CN]  
• See also references of WO 2022063233A1

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

DOCDB simple family (publication)  
**EP 4218441 A1 20230802**; **EP 4218441 A4 20240320**; CN 213604392 U 20210706; US 2023329342 A1 20231019;  
WO 2022063233 A1 20220331

DOCDB simple family (application)  
**EP 21871602 A 20210924**; CN 202022148217 U 20200925; CN 2021120353 W 20210924; US 202118028520 A 20210924