

Title (en)
ASSEMBLY FOR GENERATING AEROSOL

Title (de)
ANORDNUNG ZUR AEROSOLGENERIERUNG

Title (fr)
ENSEMBLE POUR GÉNÉRER UN AÉROSOL

Publication
EP 4221522 A1 20230809 (DE)

Application
EP 21777742 A 20210915

Priority
• DE 102020125538 A 20200930
• EP 2021075326 W 20210915

Abstract (en)
[origin: WO2022069226A1] The invention relates to an assembly for generating aerosol, comprising an evaporator chamber, a mouthpiece with an outlet for aerosol, and a mixing chamber with an air inlet. The evaporator chamber is equipped with an electric heating element for evaporating a liquid, said heating element being in contact with a wick material which is designed to supply the liquid to be evaporated to the electric heating element. The evaporator chamber comprises at least one first nozzle which is arranged in the wall of the evaporator chamber such that a fluidic connection is formed by the nozzle between the evaporator chamber and the mixing chamber so that the liquid evaporated in the evaporator chamber can enter the mixing chamber as a free jet of steam. The assembly is designed such that the free jet of steam is mixed with an air flow entering via the air inlet in the mixing chamber in order to generate an aerosol, and the generated aerosol can exit the assembly via the outlet of the mouthpiece.

IPC 8 full level
A24F 40/05 (2020.01); **A24F 40/10** (2020.01); **A24F 40/485** (2020.01)

CPC (source: EP US)
A24F 40/05 (2020.01 - EP); **A24F 40/10** (2020.01 - EP US); **A24F 40/42** (2020.01 - US); **A24F 40/44** (2020.01 - US); **A24F 40/46** (2020.01 - US); **A24F 40/485** (2020.01 - EP US)

Citation (search report)
See references of WO 2022069226A1

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)
DE 102020125538 A1 20220331; CN 116234457 A 20230606; EP 4221522 A1 20230809; US 2023363462 A1 20231116;
WO 2022069226 A1 20220407

DOCDB simple family (application)
DE 102020125538 A 20200930; CN 202180066959 A 20210915; EP 2021075326 W 20210915; EP 21777742 A 20210915;
US 202118246088 A 20210915