

Title (en)

ATOMIZATION UNIT AND NON-COMBUSTION HEATING-TYPE FLAVOR INHALER

Title (de)

ZERSTÄUBEREINHEIT UND VERBRENNUNGSFREIER AROMAINHALATOR

Title (fr)

UNITÉ D'ATOMISATION ET INHALATEUR D'ARÔME DE TYPE À CHAUFFAGE SANS COMBUSTION

Publication

**EP 4062778 A4 20230823 (EN)**

Application

**EP 19953309 A 20191119**

Priority

JP 2019045225 W 20191119

Abstract (en)

[origin: US2022202099A1] To prevent droplets formed by agglomeration of aerosol in an aerosol flow path from reaching the inside of a user's mouth. An atomizing unit comprises an atomizing section, a tank, and a wall that defines at least part of the aerosol flow path. At least part of the wall constitutes part of a lateral wall of the tank. The aerosol flow path includes a first aerosol flow path and a second aerosol flow path. The atomizing unit includes a liquid evacuation section that is disposed in the second aerosol flow path and extends downstream of the second aerosol flow path from a boundary between the first aerosol flow path and the second aerosol flow path. The wall includes a planar portion parallel with a second direction orthogonal to a first direction at the boundary between the first aerosol flow path and the second aerosol flow path. The liquid evacuation section includes a space defined by the planar portion. A ratio of sectional area of the second aerosol flow path and the liquid evacuation section in the second direction to sectional area of the first aerosol flow path in the second direction is larger than 1 and equal to or smaller than 4.0.

IPC 8 full level

**A24F 40/10** (2020.01); **A24F 40/485** (2020.01)

CPC (source: EP US)

**A24F 40/10** (2020.01 - US); **A24F 40/42** (2020.01 - US); **A24F 40/485** (2020.01 - EP US); **A24F 40/10** (2020.01 - EP)

Citation (search report)

- [IA] CN 103237469 A 20130807 - PHILIP MORRIS PROD
- [IA] US 2019090540 A1 20190328 - ALARCON RAMON [US], et al
- [IA] CN 102326869 A 20120125 - ZHIPING CHEN
- [IA] US 2017119061 A1 20170504 - LI YONGHAI [CN], et al
- See references of WO 2021100110A1

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)

**US 2022202099 A1 20220630**; EP 4062778 A1 20220928; EP 4062778 A4 20230823; JP 7203246 B2 20230112;  
JP WO2021100110 A1 20210527; TW 202119945 A 20210601; WO 2021100110 A1 20210527

DOCDB simple family (application)

**US 202217698503 A 20220318**; EP 19953309 A 20191119; JP 2019045225 W 20191119; JP 2021558068 A 20191119;  
TW 109114343 A 20200429