

Title (en)
ATOMIZER AND AEROSOL GENERATION APPARATUS WITH SAME

Title (de)
ZERSTÄUBER UND AEROSOLERZEUGUNGSVORRICHTUNG DAMIT

Title (fr)
ATOMISEUR ET APPAREIL DE GÉNÉRATION D'AÉROSOL LE COMPRENANT

Publication
EP 4104690 A4 20240313 (EN)

Application
EP 21753445 A 20210115

Priority

- CN 202020159567 U 20200210
- CN 202021425565 U 20200210
- CN 2021071993 W 20210115

Abstract (en)
[origin: EP4104690A1] Disclosed are an atomizer (100) and an aerosol generation apparatus with the atomizer (100). The atomizer (100) comprises a liquid storage part (10), a base (20) arranged at an end of the liquid storage part (10), and a vapor output pipe (11) arranged in the liquid storage part (10). The atomizer (100) further comprises a connecting part (30) arranged between the base (20) and the vapor output pipe (11), wherein an air intake pipe (261) is arranged in a protruding manner on the base (20), and the side of the connecting part (30) close to the vapor output pipe (11) is recessed to form a first collecting tank (311). In the atomizer (100), the connecting part (30) is arranged between the base (20) and the vapor output pipe (11), and corresponding to the vapor output pipe (11), the connecting part (30) is provided with the first collecting tank (311), such that condensate generated in the vapor output pipe (11) or an aerosol-forming substrate leaked from the atomizer (100) is collected in the first collecting tank (311), the aerosol-forming substrate is prevented from leaking to the outside of the aerosol generation apparatus from the air intake pipe (261), thereby preventing liquid leakage, and achieving good user experience.

IPC 8 full level
A24F 40/10 (2020.01); **A24F 40/40** (2020.01); **A24F 40/46** (2020.01)

CPC (source: EP)
A24F 40/40 (2020.01); **A24F 40/44** (2020.01); **A24F 40/10** (2020.01)

Citation (search report)

- [XYI] CN 110236233 A 20190917 - YANG SHUANG
- [X] US 2018168236 A1 20180621 - QIU WEIHUA [CN]
- [A] WO 2019174399 A1 20190919 - HUIZHOU HAPPY VAPING TECH LIMITED [CN]
- [A] US 2019335809 A1 20191107 - HAN JIYUN [CN]
- [Y] CN 106690425 B 20190920
- See also references of WO 2021159915A1

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 4104690 A1 20221221; **EP 4104690 A4 20240313**; CN 211746937 U 20201027; CN 212911688 U 20210409; WO 2021159915 A1 20210819

DOCDB simple family (application)
EP 21753445 A 20210115; CN 202020159567 U 20200210; CN 202021425565 U 20200210; CN 2021071993 W 20210115