

Title (en)
ATOMIZER AND AEROSOL GENERATION DEVICE

Title (de)
ZERSTÄUBER UND AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)
ATOMISEUR ET DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication
EP 4133951 A1 20230215 (EN)

Application
EP 21784592 A 20210409

Priority
• CN 202020532377 U 20200411
• CN 2021000080 W 20210409

Abstract (en)
Disclosed is an atomizer (100) and an aerosol generation device with the atomizer (100). The atomizer (100) comprises a liquid storage member (10), an atomization assembly (20) and a mouthpiece (30), wherein a liquid storage chamber (101) for storing an aerosol-forming substrate is formed in the liquid storage member (10); the atomization assembly (20) is mounted on the liquid storage member (10); the atomization assembly (20) is provided with an atomization chamber (201) and a liquid inlet (202) which is in communication with the atomization chamber (201); the mouthpiece (30) is slidably sheathed outside the atomization assembly (20) in the axial direction; the mouthpiece (30) can slide between a first locking position and a second locking position relative to the liquid storage member (10); when the mouthpiece (30) slides to the first locking position, the mouthpiece (30) closes the liquid inlet (202); and when the mouthpiece (30) slides from the first locking position to the second locking position, the mouthpiece (30) opens the liquid inlet (202), such that the liquid inlet (202) is in communication with the liquid storage chamber (101). The atomizer (100) can change the communication relationship between the liquid storage chamber (101) and the atomization chamber (201), thereby effectively solving the problem of the deterioration and leakage of the aerosol-forming substrate when the atomizer (100) is not used for a long time.

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

CPC (source: EP US)
A24F 7/02 (2013.01 - US); **A24F 40/10** (2020.01 - US); **A24F 40/40** (2020.01 - EP); **A24F 40/42** (2020.01 - EP US);
A24F 40/485 (2020.01 - EP US); **A24F 40/10** (2020.01 - 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 4133951 A1 20230215; **EP 4133951 A4 20240501**; CN 212164889 U 20201218; US 2023110108 A1 20230413;
WO 2021203777 A1 20211014

DOCDB simple family (application)
EP 21784592 A 20210409; CN 202020532377 U 20200411; CN 2021000080 W 20210409; US 202218045475 A 20221011