

Title (en)
ATOMIZER AND AEROSOL GENERATING DEVICE THEREOF

Title (de)
ZERSTÄUBER UND AEROSOLERZEUGUNGSVORRICHTUNG DAFÜR

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

Publication
EP 4118983 A4 20240403 (EN)

Application
EP 21767585 A 20210309

Priority
• CN 202020274997 U 20200309
• CN 2021079711 W 20210309

Abstract (en)
[origin: EP4118983A1] An atomizer (100) and an aerosol generating device with the atomizer (100) are provided. The atomizer (100) includes a liquid storage assembly (10) and an atomizing assembly (20). A liquid storage chamber (15) is provided in the liquid storage assembly (10), a smoke outlet (11) is provided in the liquid storage assembly (10), the atomizing assembly (20) is arranged at one end of the liquid storage assembly (10) opposite to the smoke outlet (11), the atomizing assembly (20) includes a liquid absorbing member (231), the liquid absorbing member (231) is arranged between the liquid storage chamber (15) and an atomizing chamber (221) to separate direct communication between the liquid storage chamber (15) and the atomizing chamber (221), and compared to the liquid absorbing member (231), the air outlet end of an air inlet passage (211) is located closer to the smoke outlet (11). The air inlet passage in communication with the atomizing chamber (221) is provided in the atomizing assembly (20), the liquid absorbing member (231) is arranged between the liquid storage chamber (15) and the atomizing chamber (221) to separate direct communication between the liquid storage chamber (15) and the atomizing chamber (221), and meanwhile, the air outlet end of the air inlet passage (211) is located closer to the smoke outlet (11) compared to the liquid absorbing member (231); thus, an aerosol-forming substrate which is not atomized by a heating member (232) in time on the liquid absorbing member (231), the condensate generated when smoke is cooled or the leaked aerosol-forming substrate are not prone to be leaked to the outside of the aerosol generating device.

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

CPC (source: EP US)
A24D 3/17 (2020.01 - EP); **A24F 40/10** (2020.01 - US); **A24F 40/44** (2020.01 - EP US); **A24F 40/485** (2020.01 - US); **A24F 40/10** (2020.01 - EP); **A24F 40/40** (2020.01 - EP)

Citation (search report)
• [XA] EP 3516970 A1 20190731 - LIN GUANGRONG [CN]
• [XA] US 2019350256 A1 20191121 - HEJAZI VAHID [US]
• [XA] CN 110279162 A 20190927 - SHENZHEN RELX TECH CO LTD
• [A] WO 2018130068 A1 20180719 - CHANGZHOU PATENT ELECTRONIC TECH CO LTD [CN]
• [A] US 2019223504 A1 20190725 - CHEN ZHIPING [CN]
• See also references of WO 2021180061A1

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 4118983 A1 20230118; EP 4118983 A4 20240403; CN 211746948 U 20201027; US 2023000165 A1 20230105;
WO 2021180061 A1 20210916

DOCDB simple family (application)
EP 21767585 A 20210309; CN 202020274997 U 20200309; CN 2021079711 W 20210309; US 202217930723 A 20220909