

Title (en)
ELECTRONIC DEVICES FOR AEROSOLIZING AND INHALING LIQUID

Title (de)
ELEKTRONISCHE VORRICHTUNGEN ZUM VERNEBELN UND INHALIEREN VON FLÜSSIGKEITEN

Title (fr)
DISPOSITIFS ÉLECTRONIQUES POUR L'AÉROSOLISATION ET L'INHALATION DE LIQUIDE

Publication
EP 4044838 A4 20240124 (EN)

Application
EP 20879239 A 20201020

Priority
• US 201962923602 P 20191020
• US 201962924168 P 20191021
• US 2020056540 W 20201020

Abstract (en)
[origin: WO2021081009A1] An electronic device for producing an aerosol for inhalation by a person includes a mouthpiece, a liquid container in the form of a bladder, and a mesh assembly having a mesh material and a piezoelectric material. The mesh material is in contact with a liquid of the bladder. The mesh material is configured to vibrate when the piezoelectric material is actuated, whereby the aerosol is produced. The aerosol may be inhaled through the mouthpiece. The device also includes circuitry and a power supply for actuating the mesh assembly. The mouthpiece, the bladder, and the mesh assembly are located in-line along a longitudinal axis of the device between opposite longitudinal ends of the device, with the mesh assembly extending between and separating the mouthpiece and the bladder.

IPC 8 full level
A24F 40/05 (2020.01); **A24F 40/10** (2020.01); **A24F 40/40** (2020.01); **A24F 40/42** (2020.01); **A24F 40/46** (2020.01); **A61M 11/00** (2006.01); **A61M 15/00** (2006.01); **A61M 15/06** (2006.01)

CPC (source: EP)
A24F 40/05 (2020.01); **A24F 40/10** (2020.01); **A24F 40/40** (2020.01); **A61M 11/005** (2013.01); **A61M 15/0085** (2013.01); **A61M 15/06** (2013.01); **A24F 40/60** (2020.01); **A61M 15/0021** (2014.02); **A61M 2202/0468** (2013.01); **A61M 2205/0216** (2013.01); **A61M 2205/583** (2013.01); **A61M 2205/8206** (2013.01); **A61M 2205/8237** (2013.01); **A61M 2209/045** (2013.01)

Citation (search report)
• [X] EP 1154815 B1 20040721 - INJET DIGITAL AEROSOLS LTD [AU]
• See references of WO 2021081009A1

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)
WO 2021081009 A1 20210429; CA 3155363 A1 20210429; EP 4044838 A1 20220824; EP 4044838 A4 20240124; TW 202121997 A 20210616

DOCDB simple family (application)
US 2020056540 W 20201020; CA 3155363 A 20201020; EP 20879239 A 20201020; TW 109136339 A 20201020