

Title (en)

ATOMIZER AND AEROSOL GENERATING DEVICE

Title (de)

ZERSTÄUBER UND AEROSOLERZEUGUNGSVORRICHTUNG

Title (fr)

ATOMISEUR ET DISPOSITIF DE GÉNÉRATION D'AÉROSOL

Publication

**EP 4378332 A1 20240605 (EN)**

Application

**EP 22848538 A 20220726**

Priority

- CN 202121770507 U 20210730
- CN 2022107953 W 20220726

Abstract (en)

An atomizer and an aerosol generating device. In the atomizer, an atomizing housing (1) is at least partially accommodated in a liquid storage cavity (53), a liquid storage space is formed in the atomizing housing (1), and a pressure relief hole (114) in communication with the liquid storage space and the liquid storage cavity (53) and an air guide port (117) for communicating the liquid storage space with the outside atmosphere are provided on the atomizing housing (1). In this way, when the air pressure in the liquid storage cavity (53) is greater than the external air pressure and a positive pressure difference is formed, the positive pressure difference presses an aerosol-forming substrate in the liquid storage cavity (53) into the liquid storage space by means of the pressure relief hole (114), so that the internal air pressure of the atomizer and the external air pressure reach a balanced state. However, when the air pressure in the liquid storage cavity (53) is greater than the external air pressure and a negative pressure difference is formed, the negative pressure difference presses an aerosol-forming substrate in the liquid storage space back into the liquid storage cavity (53) by means of the pressure relief hole (114), so that the internal air pressure of the atomizer and the external air pressure reach a balanced state. In this process, the aerosol-forming substrate is prevented from flowing into an atomizing cavity (112), thereby avoiding seepage of the aerosol-forming substrate, and effectively preventing liquid leakage of the atomizer.

IPC 8 full level

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CPC (source: EP US)

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Designated contracting state (EPC)

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