

Title (en)

ATOMIZING DEVICE FOR LIQUID RECYCLING AND UTILIZATION

Title (de)

ZERSTÄUBUNGSVORRICHTUNG ZUR FLÜSSIGKEITSRÜCKFÜHRUNG UND -VERWENDUNG

Title (fr)

DISPOSITIF D'ATOMISATION POUR L'UTILISATION ET LE RECYCLAGE DE LIQUIDE

Publication

**EP 3973798 A1 20220330 (EN)**

Application

**EP 20939836 A 20200609**

Priority

CN 2020095189 W 20200609

Abstract (en)

The present disclosure provides a liquid recycling atomization device, which includes a housing, a liquid conducting member and a heating element arranged on the liquid conducting member. A liquid storage cavity is arranged in the housing such that liquid in the liquid storage cavity can be conducted through the liquid conducting member to the heating element for heating and atomization. An air inlet and an air outlet are formed in the housing such that air can enter from the air inlet and smoke can flow out through the air outlet. The device further includes a liquid absorbing structure surrounding the air inlet for absorbing the condensate around the air inlet. The liquid absorbing structure is in contact with the liquid conducting member, so that the liquid conducting member absorbs the condensate absorbed by the liquid absorbing structure, and then the heating element heats and atomizes the condensate. The liquid absorbing structure can absorb the condensate in the device. The liquid absorbing structure is contacted with the conductive liquid, when the heating element is heated, the liquid in the liquid conducting member is consumed, and the liquid conducting member can suck back the condensate in the liquid absorbing structure, realizing the recycling of the condensate.

IPC 8 full level

**A24F 40/42** (2020.01); **A24F 40/40** (2020.01); **A24F 40/46** (2020.01); **A24F 40/48** (2020.01)

CPC (source: EP US)

**A24F 40/42** (2020.01 - EP US); **A24F 40/44** (2020.01 - EP US); **A24F 40/48** (2020.01 - US); **A24F 40/10** (2020.01 - EP)

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BA ME

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