

Title (en)

Evaporation device with a capillary pump

Title (de)

Verdampfungsvorrichtung mit einer kapillaren Pumpe

Title (fr)

Dispositif d'évaporation comprenant une pompe capillaire

Publication

EP 2457629 B1 20190109 (FR)

Application

EP 11188935 A 20111114

Priority

FR 1004598 A 20101126

Abstract (en)

[origin: EP2457629A1] The device (100) has a reservoir (101) containing liquid to be vaporized (111). A heating element (105) i.e. electrically conductive grid, heats the liquid to vaporize the liquid. An annular capillary barrier (106) is arranged in a capillary pumping direction (102) of liquid, downstream from a cylindrical capillary pump (110). The barrier prevents discharge of unvaporized liquid from the device, and has a non-wetting porous component (116) provided with a polymer membrane. The reservoir, the pump and the barrier are arranged in an outer support made of glass, ceramics and/or plastic material. The non-wetting porous component is made of thermally insulating material. The heating element is made of stainless material.

IPC 8 full level

B01B 1/00 (2006.01)

CPC (source: EP US)

B01B 1/005 (2013.01 - EP US)

Cited by

FR3011489A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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