

Title (en)

EVAPORATION METHOD AND HEATING DEVICE THEREFOR

Title (de)

VERFAHREN ZUR VERDAMPFUNG UND HEIZVORRICHTUNG DAFÜR

Title (fr)

PROCEDE DE VAPORISATION ET DISPOSITIF CHAUFFANT ASSOCIE

Publication

EP 0708900 A1 19960501 (FR)

Application

EP 95918659 A 19950518

Priority

- FR 9500656 W 19950518
- FR 9406076 A 19940518

Abstract (en)

[origin: US5771845A] PCT No. PCT/FR95/00656 Sec. 371 Date Apr. 8, 1996 Sec. 102(e) Date Apr. 8, 1996 PCT Filed May 18, 1995 PCT Pub. No. WO95/31674 PCT Pub. Date Nov. 23, 1995A liquid is vaporized by a device having at least one porous substrate exposed to a certain ambient pressure, means for supplying the substrate with liquid in order for it to be loaded with liquid starting from an upstream portion of the substrate, and at least one energy source for heating the substrate so that at least some of the liquid is vaporized. According to the invention, the means for supplying the substrate with liquid may include means for pressurizing the liquid to a pressure greater than ambient pressure, thereby creating a flow-rate greater than the flow-rate induced by capillarity and vaporization of the liquid alone when the substrate is held in a horizontal position. The invention may be applied to the production of water-vaporization equipment, particularly with electrical or gaseous energy supply.

IPC 1-7

F22B 1/00; **F22B 1/28**; **F22B 27/16**

IPC 8 full level

F22B 3/00 (2006.01); **F22B 1/00** (2006.01); **F22B 1/28** (2006.01); **F22B 27/16** (2006.01); **F24F 6/04** (2006.01)

CPC (source: EP US)

F22B 1/00 (2013.01 - EP US); **F22B 1/284** (2013.01 - EP US); **F22B 1/287** (2013.01 - EP US); **F24F 6/043** (2013.01 - EP US)

Cited by

EP2264372A3; US8517356B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL PT

DOCDB simple family (publication)

US 5771845 A 19980630; AT E174680 T1 19990115; CA 2167598 A1 19951123; DE 69506669 D1 19990128; DE 69506669 T2 19990909; EP 0708900 A1 19960501; EP 0708900 B1 19981216; ES 2128058 T3 19990501; FR 2720143 A1 19951124; FR 2720143 B1 19960712; JP H09500957 A 19970128; WO 9531674 A1 19951123

DOCDB simple family (application)

US 58312196 A 19960408; AT 95918659 T 19950518; CA 2167598 A 19950518; DE 69506669 T 19950518; EP 95918659 A 19950518; ES 95918659 T 19950518; FR 9406076 A 19940518; FR 9500656 W 19950518; JP 52942895 A 19950518