

Title (en)

ENTHALPY PUMP

Title (de)

ENTHALPIE-PUMPE

Title (fr)

POMPE ENTHALPIQUE

Publication

EP 1232368 A4 20030102 (EN)

Application

EP 00907168 A 20000204

Priority

- US 0002956 W 20000204
- US 16373199 P 19991105

Abstract (en)

[origin: WO0135039A1] An enthalpy pump (10) for altering the humidity level of an air stream (12, 14). The enthalpy pump comprises a container having a transfer portion (38) disposed in a first air stream (12), with a liquid desiccant contained in the transfer portion (38). The transfer portion (38) is permeable to water vapor and impermeable to the liquid desiccant to thereby retain the liquid desiccant within the container while permitting exposure of the liquid desiccant to the first air stream. The transfer portion (38) is also adapted to move the liquid desiccant into and out of the first air stream whereby the latent and/or sensible energy of the first air stream can be altered.

IPC 1-7

F24F 3/14; B01D 53/26

IPC 8 full level

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CPC (source: EP)

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F24F 2203/1004 (2013.01); **F24F 2203/1036** (2013.01); **F24F 2203/1068** (2013.01); **F24F 2203/1084** (2013.01)

Citation (search report)

- [XY] EP 0678321 A2 19951025 - ESSEX INVENTION SA [PA]
- [X] DE 19545335 A1 19970612 - DORNIER GMBH [DE]
- [Y] US 4723417 A 19880209 - MECKLER GERSHON [US]
- [A] US 4900448 A 19900213 - BONNE ULRICH [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04 31 May 1995 (1995-05-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 379 (M - 1012) 16 August 1990 (1990-08-16)
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 533 (C - 1114) 27 September 1993 (1993-09-27)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 05 31 May 1999 (1999-05-31)
- See references of WO 0135039A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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