

Title (en)
Sorption heat exchanger and method for same

Title (de)
Sorptionswärmetauscher und Verfahren hierfür

Title (fr)
Echangeur thermique à sorption et son procédé

Publication
EP 2314938 A3 20161228 (DE)

Application
EP 10188008 A 20101019

Priority
DE 102009050050 A 20091021

Abstract (en)
[origin: EP2314938A2] The method involves providing heat energy over a sorption heat exchanger (1) for desorption purposes. The heat energy is delivered using a heat carrier that is provided as an aerosol, which is formed by application of fluid in air in the heat exchanger. The heat carrier is supplied from a cooling side (1b) of the sorption heat exchanger. Hot water is pumped from a hot water tank (3) to nozzles (4) using a pump (2), and sprayed on the cooling side, during a desorption phase. Hydrophilic coating is provided on the cooling side for heat transmission from water to a separation wall (5). Independent claims are also included for the following: (1) a sorption method for quasi-continuous conditioning of humidity air (2) a sorption device for quasi-continuous conditioning of humidity air.

IPC 8 full level
F24F 3/14 (2006.01); **F24F 5/00** (2006.01)

CPC (source: EP)
F24F 3/1411 (2013.01); **F24F 5/0014** (2013.01); **F24F 2003/1458** (2013.01)

Citation (search report)

- [X] DE 2033206 A1 19710204
- [A] US 6216483 B1 20010417 - POTNIS SHAILESH V [US], et al
- [A] EP 0139626 A2 19850502 - SIMMERING GRAZ PAUKER AG [AT]
- [A] US 2003221438 A1 20031204 - RANE MILIND V [IN], et al
- [A] US 6134903 A 20001024 - POTNIS SHAILESH V [US], et al

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CN115540383A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 10188008 A 20101019; DE 102009050050 A 20091021