

Title (en)

ABSORPTION HEAT PUMP WITH SORBENT COMPRISING LITHIUM CHLORIDE AND AN ORGANIC CHLORIDE SALT

Title (de)

ABSORPTIONSWÄRMEPUMPE MIT SORPTIONSMITTEL UMFASSEND LITHIUMCHLORID UND EIN ORGANISCHES CHLORIDSALZ

Title (fr)

POMPE À CHALEUR PAR ABSORPTION PRÉSENTANT UN SORBANT COMPRENANT DU CHLORURE DE LITHIUM ET UN SEL DE CHLORURE ORGANIQUE

Publication

EP 2561031 A1 20130227 (DE)

Application

EP 11714300 A 20110414

Priority

- EP 10160431 A 20100420
- EP 2011055897 W 20110414
- EP 11714300 A 20110414

Abstract (en)

[origin: EP2380940A1] Absorption heat pump comprises an absorber, a desorber, a condenser, an evaporator, a volatile refrigerant and a sorbent, where the sorbent comprises lithium chloride and at least one chloride salt (I). Absorption heat pump comprises an absorber, a desorber, a condenser, an evaporator, a volatile refrigerant and a sorbent, where the sorbent comprises lithium chloride and at least one chloride salt of formula (Q +>Cl ->) (I). Q +> : organic cation having a molar mass of 200 g/mole, preferably 1,3-dialkylimidazolium ions, 1,3-dialkylimidazolinium ions, N-alkylpyridinium ions, N,N-dialkylpyrrolidinium ions or ammonium ions of formula (R1R2R3R4N +>); R1-R3 : H, alkyl or hydroxyethyl; and R4 : alkyl.

IPC 8 full level

C09K 5/04 (2006.01)

CPC (source: EP KR US)

C09K 5/04 (2013.01 - KR); **C09K 5/047** (2013.01 - EP US); **F25B 30/00** (2013.01 - KR); **F25B 15/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2011131552A1

Citation (examination)

WO 2005113702 A1 20051201 - BASF AG [DE], et al

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EP 10160431 A 20100420; CN 201180014094 A 20110414; EP 11714300 A 20110414; EP 2011055897 W 20110414; JP 2013505412 A 20110414; KR 20127027291 A 20110414; TW 100113213 A 20110415; US 201113641591 A 20110414