

Title (en)
Sorption plate heat exchanger

Title (de)
Sorptions- Plattenwärmeaustauscher

Title (fr)
Echangeur de chaleur à plaques par sorption

Publication
EP 0959307 B1 20030502 (DE)

Application
EP 98810472 A 19980520

Priority
EP 98810472 A 19980520

Abstract (en)
[origin: EP0959307A1] An air conditioning system has plate type heat exchangers to exchange heat between the incoming air flow and the expelled air flow to conserve energy. The incoming air is dehumidified using hygroscopic liquid sprayed over the plate heat exchangers. Liquid which drains off the heat exchangers is collected and recycled, ie. the water is removed by heating. The liquid is cooled and recycled to the heat exchangers.

IPC 1-7
F24F 3/147

IPC 8 full level
F24F 3/14 (2006.01); **F24F 3/147** (2006.01); **F28D 5/00** (2006.01)

CPC (source: EP)
F24F 3/1417 (2013.01); **F24F 3/147** (2013.01); **F28D 5/00** (2013.01); **F24F 2003/144** (2013.01)

Cited by
AU2004223811B2; DE102014010924A1; CN106705233A; US11441775B2; EP1748260A1; US7273516B2; US10808949B2; WO2004085946A1; WO2016174220A1; TWI683982B

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)
EP 0959307 A1 19991124; EP 0959307 B1 20030502; AT E239200 T1 20030515; DE 59808157 D1 20030605

DOCDB simple family (application)
EP 98810472 A 19980520; AT 98810472 T 19980520; DE 59808157 T 19980520