

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 1985949 A1 20081029 (EN)

Application
EP 07714290 A 20070215

Priority
• JP 2007052760 W 20070215
• JP 2006037791 A 20060215

Abstract (en)
A heat exchanger (100a) includes a plurality of tubes (4), an entrance header (1) for distributing a refrigerant to the tubes (4), and an exit header (2) for collecting the refrigerant from the tubes (4). The entrance header (1) includes a circulating conduit (10) capable of circulating at least part of the refrigerant that has flowed into the entrance header (1), and the plurality of tubes (4) are fluidly connected to the outward channel (10a) of the circulating conduit (10). The entrance header (1) also includes an ejector 11 that uses the refrigerant flowing into the entrance header to draw and mix at least part of the refrigerant that has flowed into the entrance header and spray out the mixed refrigerant. The entrance header (1) can supply refrigerant more uniformly to the tubes (4) connected to the circulating conduit (10).

IPC 8 full level
F25B 1/00 (2006.01); **F25B 39/02** (2006.01); **F25B 41/00** (2006.01)

CPC (source: EP US)
F25B 39/028 (2013.01 - EP US); **F25B 41/00** (2013.01 - EP US); **F25B 2341/0011** (2013.01 - EP US)

Citation (search report)
See references of WO 2007094422A1

Cited by
FR3081985A1; EP3855059B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1985949 A1 20081029; CN 101384868 A 20090311; JP 4866416 B2 20120201; JP WO2007094422 A1 20090709;
US 2010314090 A1 20101216; WO 2007094422 A1 20070823

DOCDB simple family (application)
EP 07714290 A 20070215; CN 200780005179 A 20070215; JP 2007052760 W 20070215; JP 2008500546 A 20070215;
US 27962007 A 20070215