

Title (en)
MULTI-PART HEAT EXCHANGER

Title (de)
MEHRTEILIGER WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR A MULTIPLES PARTIES

Publication
EP 1872068 A4 20111116 (EN)

Application
EP 05856004 A 20051230

Priority
• US 2005047524 W 20051230
• US 66391705 P 20050318

Abstract (en)
[origin: WO2006101563A2] A refrigeration system includes a compressor for driving a refrigerant along a flow path in at least a first mode of system operation; a first heat exchanger along the flow path downstream of the compressor in the first mode; a second heat exchanger along the flow path upstream of the compressor in the first mode; and a pressure regulator or expansion device in the flow path downstream of the first heat exchanger and upstream of the second heat exchanger in the first mode, wherein the first heat exchanger comprises a plurality of heat exchanger components arranged along a flow path of heat exchange fluid for the first heat exchanger. The heat exchanger components can be positioned in smaller available areas within the unit and thereby use space more efficiently.

IPC 8 full level
F25B 1/00 (2006.01); **F25D 23/00** (2006.01)

CPC (source: EP US)
F25B 6/04 (2013.01 - EP US); **F25B 9/008** (2013.01 - EP US); **F25D 19/02** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25D 23/003** (2013.01 - EP US); **F25D 2317/0651** (2013.01 - EP US); **F25D 2317/0661** (2013.01 - EP US); **F25D 2323/00264** (2013.01 - EP US); **F25D 2323/00271** (2013.01 - EP US); **F25D 2500/02** (2013.01 - EP US)

Citation (search report)
• [XYI] JP H06207773 A 19940726 - TOSHIBA CORP
• [Y] US 2002124590 A1 20020912 - RUDICK ARTHUR G [US]
• [XI] JP 2003287342 A 20031010 - TOSHIBA CORP
• [XI] JP H0634257 A 19940208 - TOSHIBA CORP
• See references of WO 2006101563A2

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2006101563 A2 20060928; WO 2006101563 A3 20080117; CN 100575813 C 20091230; CN 101175952 A 20080507; EP 1872068 A2 20080102; EP 1872068 A4 20111116; EP 1872068 B1 20160622; ES 2580080 T3 20160819; HK 1120103 A1 20090320; JP 2008533425 A 20080821; JP 4705157 B2 20110622; US 2008184731 A1 20080807

DOCDB simple family (application)
US 2005047524 W 20051230; CN 200580049153 A 20051230; EP 05856004 A 20051230; ES 05856004 T 20051230; HK 08111972 A 20081030; JP 2008501863 A 20051230; US 90841807 A 20070912