Title (en)

GAS COOLER CONFIGURATION INTEGRATED INTO HEAT PUMP CHASSIS

Title (de)

IN EIN WÄRMEPUMPENGEHÄUSE INTEGRIERTE GASKÜHLERANORDNUNG

Title (fr)

CONFIGURATION DE REFROIDISSEUR A GAZ INTEGRE DANS UN CHASSIS DE POMPE THERMIQUE

Publication

EP 1802928 A4 20080514 (EN)

Application

EP 05808973 A 20051011

Priority

- US 2005036271 W 20051011
- US 96962004 A 20041020

Abstract (en)

[origin: US2006080988A1] A thin-profiled gas cooler and chassis suitable for a transcritical heat pump water heater are provided. The heat pump system includes a chassis for supporting such system components as a gas cooler and evaporator. The dimensions of the gas cooler are designed to minimize the impact that the gas cooler has on the cooling capacity of the evaporator by reducing the amount of air flow that the gas cooler blocks. This is achieved by reducing the depth that the gas cooler extends into the chassis cavity. As a result, the height and/or width of the gas cooler is increased compared to other similar volume gas coolers is providing comparable water heating capacity.

IPC 8 full level

F25B 39/04 (2006.01); **F25D 19/00** (2006.01)

CPC (source: EP US)

F25B 9/008 (2013.01 - EP US); **F25D 23/006** (2013.01 - EP US); F25B 2309/061 (2013.01 - EP US); F25B 2339/047 (2013.01 - EP US); F28D 2021/0073 (2013.01 - EP US)

Citation (search report)

- [X] US 2004200905 A1 20041014 - SAITOH KENICHI [JP], et al
- [X] JP 2003336916 A 20031128 - HITACHI HOME & LIFE SOLUTIONS
- [X] GB 2117884 A 19831019 - BIRMINGHAM HEAT PUMPS LIMITED
- [X] EP 1018627 A2 20000712 - DUTCH HEATPUMP B V [NL]
- See references of WO 2006044277A2

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)

US 2006080988 A1 20060420; CN 101044365 A 20070926; EP 1802928 A2 20070704; EP 1802928 A4 20080514; JP 2008517247 A 20080522; WO 2006044277 A2 20060427; WO 2006044277 A3 20070419

DOCDB simple family (application)

US 96962004 A 20041020; CN 200580035528 A 20051011; EP 05808973 A 20051011; JP 2007537913 A 20051011; US 2005036271 W 20051011