

Title (en)  
REFRIGERATING MACHINE

Title (de)  
KÜHLMASCHINE

Title (fr)  
MACHINE FRIGORIFIQUE

Publication  
**EP 2090850 A4 20111123 (EN)**

Application  
**EP 07849920 A 20071129**

Priority  
• JP 2007073089 W 20071129  
• JP 2006323772 A 20061130

Abstract (en)  
[origin: US2010031693A1] A refrigerating machine including: a cooling stage that cools a target object; a He condensation section onto which said object is mounted; a reservoir that communicates with said He condensation section, and is filled with He gas; and a heat transfer buffer member that is arranged between said cooling stage and said He condensation section, and is composed of a material having a thermal conductivity lower than that of said He condensation section.

IPC 8 full level  
**F25D 19/00** (2006.01)

CPC (source: EP KR US)  
**F25B 9/00** (2013.01 - KR); **F25B 9/14** (2013.01 - KR); **F25D 19/006** (2013.01 - EP US); **F25B 9/14** (2013.01 - EP US);  
**F25B 2400/17** (2013.01 - EP US); **F25D 2400/02** (2013.01 - EP US)

Citation (search report)  
• [XY] US 2006048522 A1 20060309 - YAMADA SHUNJI [JP]  
• [Y] JP 2004076955 A 20040311 - SUMITOMO HEAVY INDUSTRIES  
• [Y] JP S6195585 A 19860514 - HITACHI LTD  
• [A] EP 1557624 A2 20050727 - KOBE STEEL LTD [JP]  
• [Y] JP H07146020 A 19950606 - SUMITOMO HEAVY INDUSTRIES  
• [Y] JP H09287836 A 19971104 - DAIKIN IND LTD  
• [A] JP H0914777 A 19970117 - IDOUTAI TSUSHIN SENTAN GIJUTSU  
• [A] US 3188830 A 19650615 - COWANS KENNETH W  
• [A] US 4694175 A 19870915 - BULLER JOSEPH S [US]  
• [A] US 4479367 A 19841030 - BULLER J STANLEY [US]  
• See references of WO 2008066127A1

Cited by  
WO2013178408A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2010031693 A1 20100211**; CN 101542219 A 20090923; CN 101542219 B 20120620; EP 2090850 A1 20090819; EP 2090850 A4 20111123;  
EP 2090850 B1 20161005; JP WO2008066127 A1 20100311; KR 101121232 B1 20120322; KR 20090085641 A 20090807;  
TW 200839162 A 20081001; TW I395916 B 20130511; WO 2008066127 A1 20080605

DOCDB simple family (application)  
**US 51644907 A 20071129**; CN 200780043390 A 20071129; EP 07849920 A 20071129; JP 2007073089 W 20071129;  
JP 2008547035 A 20071129; KR 20097010913 A 20071129; TW 96145465 A 20071129