

Title (en)  
REFRIGERATION CIRCUIT

Title (de)  
KÜHLKREISLAUF

Title (fr)  
CIRCUIT DE RÉFRIGÉRATION

Publication  
**EP 2171374 A2 20100407 (EN)**

Application  
**EP 08776341 A 20080708**

Priority  
• IB 2008001795 W 20080708  
• IT MI20071419 A 20070716

Abstract (en)  
[origin: WO2009010839A2] A refrigeration circuit (3) for household appliances comprises a compressor (4) suitable for compressing a predetermined cooling fluid and for allowing the circulation thereof within said circuit (3), a first heat exchanger (5) or condenser in fluid communication with the compressor (4) for allowing the cooling and the consequent condensation of the cooling fluid going through, and a second heat exchanger (7) or evaporator in fluid communication with the first exchanger (5) through a circuit with a special device (6) suitable for decreasing the pressure of the cooling fluid at a space (2) to be cooled (normally inside the refrigerator). The second exchanger (7) allows the cooling fluid to evaporate, absorbing heat, thus cooling the space (2) and returning through the tubing (17) to the compressor (4). The cooling fluid circulates from the compressor (4) towards the first exchanger (5), from the latter towards the second exchanger (7) and then returns to the compressor (4) for a subsequent cycle. At least one of the heat exchangers (5, 7) comprises a plastic tubing (9), at least a portion whereof exhibits such corrugated profile as to impart flexibility thereof and/or increase the thermal exchange surface.

IPC 8 full level  
**F25B 39/00** (2006.01); **F25B 41/00** (2006.01); **F28F 1/08** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP US)  
**F25B 39/00** (2013.01 - EP US); **F25B 41/40** (2021.01 - EP US); **F28F 1/08** (2013.01 - EP US); **F28F 9/0246** (2013.01 - EP US); **F28F 21/062** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009010839A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**WO 2009010839 A2 20090122**; **WO 2009010839 A3 20090507**; AR 067532 A1 20091014; BR PI0813510 A2 20181226; CN 101821563 A 20100901; CN 101821563 B 20140312; CO 6300810 A2 20110721; EP 2171374 A2 20100407; IN 163KON2010 A 20150828; IT MI20071419 A1 20090117; RU 2010100987 A 20110920; RU 2490566 C2 20130820; US 2010192623 A1 20100805

DOCDB simple family (application)  
**IB 2008001795 W 20080708**; AR P080103017 A 20080714; BR PI0813510 A 20080708; CN 200880107755 A 20080708; CO 10008065 A 20100127; EP 08776341 A 20080708; IN 163KON2010 A 20100114; IT MI20071419 A 20070716; RU 2010100987 A 20080708; US 66900408 A 20080708