

Title (en)  
REFRIGERATOR WITH ENHANCED EFFICIENCY

Title (de)  
KÜHLSCHRANK MIT VERBESSERTEM WIRKUNGSGRAD

Title (fr)  
RÉFRIGÉRATEUR AVEC UNE EFFICACITÉ

Publication  
**EP 3073210 A1 20160928 (EN)**

Application  
**EP 15161544 A 20150327**

Priority  
EP 15161544 A 20150327

Abstract (en)  
A refrigerator with a refrigerant circuit comprises a compressor (10), a condenser (12), an expansion device (16), a first evaporator (17) downstream the expansion device, a second evaporator (19) downstream the first evaporator and two heat exchangers (18,20) to cause heat exchange between refrigerant flowing from the condenser to the first evaporator, on a first side, and refrigerant flowing downstream the first and second evaporator respectively.

IPC 8 full level  
**F25B 5/04** (2006.01); **F25B 41/06** (2006.01)

CPC (source: EP US)  
**F25B 5/04** (2013.01 - EP US); **F25B 41/37** (2021.01 - EP US); **F25D 11/022** (2013.01 - US); **F25D 15/00** (2013.01 - US); **F25B 2400/052** (2013.01 - EP US); **F25B 2400/054** (2013.01 - EP US)

Citation (applicant)

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- US 5207077 A 19930504 - RADERMACHER REINHARD [US], et al
- EP 2592366 A2 20130515 - SAMSUNG ELECTRONICS CO LTD [KR], et al
- "Performance optimization of a Lorenz-Meutzner cycle charged with hydrocarbon mixtures for a domestic refrigerator-freezer", IJR, vol. 1, no. 35, January 2012 (2012-01-01), pages 36 - 46

Citation (search report)

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- [I] US 4918942 A 19900424 - JASTER HEINZ [US]
- [I] US 5092138 A 19920303 - RADERMACHER REINHARD [US], et al
- [ID] EP 2592366 A2 20130515 - SAMSUNG ELECTRONICS CO LTD [KR], et al
- [I] US 5157943 A 19921027 - JASTER HEINZ [US], et al
- [E] EP 2857778 A1 20150408 - WHIRLPOOL CO [US]
- [A] DE 102009001677 A1 20100923 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [A] WON JAE YOON ET AL: "Performance optimization of a LorenzMeutzner cycle charged with hydrocarbon mixtures for a domestic refrigerator-freezer", INTERNATIONAL JOURNAL OF REFRIGERATION, ELSEVIER, PARIS, FR, vol. 35, no. 1, 28 September 2011 (2011-09-28), pages 36 - 46, XP028336834, ISSN: 0140-7007, [retrieved on 20111006], DOI: 10.1016/J.IJREFRIG.2011.09.014

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3073210 A1 20160928**; BR 102016006791 A2 20161025; US 2016282031 A1 20160929

DOCDB simple family (application)  
**EP 15161544 A 20150327**; BR 102016006791 A 20160328; US 201615079905 A 20160324