

Title (en)
REFRIGERATOR

Title (de)
KÜHLSCHRANK

Title (fr)
RÉFRIGÉRATEUR

Publication
EP 3799615 A4 20210825 (EN)

Application
EP 19855898 A 20190816

Priority
• JP 2018162562 A 20180831
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• KR 2019010437 W 20190816

Abstract (en)
[origin: JP2020034248A] To conduct heat exchange between a refrigerant led out from an evaporator and a refrigerant led out from a condenser more efficiently to improve cooling efficiency of a cooling cycle in a cooling cycle mechanism of a refrigerator. SOLUTION: A refrigerator includes a cooling cycle mechanism which circulates a refrigerant to each device including a compressor, a condenser, and an evaporator. The refrigerator includes: a first pipeline which introduces the refrigerant led out from the condenser into the evaporator; and a second pipeline which introduces the refrigerant led out from the evaporator into the compressor. The first pipeline and the second pipeline respectively have heat exchange parts which are disposed in parallel to each other and in which the refrigerant flowing through the first pipeline and the refrigerant flowing through the second pipeline flow in parallel to each other. SELECTED DRAWING: Figure 5

IPC 8 full level
F25D 11/02 (2006.01); **F25B 40/02** (2006.01); **F25B 40/06** (2006.01)

CPC (source: EP KR)
F25B 40/02 (2013.01 - EP KR); **F25B 40/06** (2013.01 - EP); **F25D 11/022** (2013.01 - EP); **F25D 19/006** (2013.01 - KR); **F25D 23/006** (2013.01 - KR); **F25B 2400/052** (2013.01 - EP); **F25B 2400/054** (2013.01 - EP)

Citation (search report)
• [XY] US 2342566 A 19440222
• [X] US 3274797 A 19660927 - KRITZER RICHARD W
• [X] US 2017074549 A1 20170316 - LILIE DIETMAR ERICH BERNHARD [BR], et al
• [YA] GB 2180921 A 19870408 - SANYO ELECTRIC CO
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• [X] DE 60113072 T2 20060614 - ZIMMERMANN LARS CHRISTIAN WULF [DK]
• See also references of WO 2020045868A1

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

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BA ME

DOCDB simple family (publication)
CN 112601921 A 20210402; CN 112601921 B 20221213; EP 3799615 A1 20210407; EP 3799615 A4 20210825; EP 3799615 B1 20230809; JP 2020034248 A 20200305; KR 102693083 B1 20240812; KR 20200026670 A 20200311

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