

Title (en)
REFRIGERATOR AND CONTROL METHOD THEREOF

Title (de)
KÜHLSCHRANK UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)
RÉFRIGÉRATEUR ET SON PROCÉDÉ DE COMMANDE

Publication
EP 3818316 A4 20210915 (EN)

Application
EP 19855235 A 20190827

Priority
• JP 2018158718 A 20180827
• JP 2018214086 A 20181114
• KR 20190074147 A 20190621
• KR 2019010942 W 20190827

Abstract (en)
[origin: JP2020034266A] To drive, before a refrigeration cycle is switched between a state in which a specific storage room is cooled and a state in which it is not cooled, components which constitute the refrigeration cycle according to the current state.SOLUTION: A refrigeration cycle control device comprises: an acquisition unit which acquires load variation of a storage room of a refrigerator having a refrigeration cycle incorporated; a decision unit which decides a drive value for driving components constituting the refrigeration cycle according to the load variation; and a drive unit which drives the components based upon the drive value. The acquisition unit constantly monitors the load variation with time in a period in which the refrigeration cycle is switched between a state in which a specific storage room is cooled and a state in which it is not cooled.SELECTED DRAWING: Figure 1

IPC 8 full level
F25D 29/00 (2006.01); **F25B 5/02** (2006.01); **F25B 41/39** (2021.01); **F25B 49/02** (2006.01); **F25D 11/02** (2006.01); **F25D 17/06** (2006.01)

CPC (source: EP KR)
F25B 5/02 (2013.01 - EP KR); **F25B 41/31** (2021.01 - KR); **F25B 41/39** (2021.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 49/022** (2013.01 - KR); **F25D 11/02** (2013.01 - KR); **F25D 11/022** (2013.01 - EP); **F25D 17/06** (2013.01 - KR); **F25D 29/00** (2013.01 - EP KR); **F25B 2341/062** (2013.01 - EP); **F25B 2600/0253** (2013.01 - EP); **F25B 2600/11** (2013.01 - EP); **F25B 2600/2507** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2700/2104** (2013.01 - EP); **F25D 2500/04** (2013.01 - KR); **F25D 2600/02** (2013.01 - KR); **F25D 2700/12** (2013.01 - KR); **F25D 2700/14** (2013.01 - KR); **Y02B 30/70** (2013.01 - EP); **Y02B 40/00** (2013.01 - EP)

Citation (search report)
• [XII] US 2012023980 A1 20120202 - LEE HOYOUN [KR], et al
• [A] US 2016313054 A1 20161027 - CHUNG MYUNGJIN [KR], et al
• [A] WO 2018116520 A1 20180628 - TECHNOMIRAI CO LTD [JP]
• See also references of WO 2020045958A1

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

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CN 112639382 A 20210409; CN 112639382 B 20220614; EP 3818316 A1 20210512; EP 3818316 A4 20210915; JP 2020034266 A 20200305; KR 20200024075 A 20200306

DOCDB simple family (application)
CN 201980056979 A 20190827; EP 19855235 A 20190827; JP 2018214086 A 20181114; KR 20190074147 A 20190621