

Title (en)
REFRIGERATOR

Title (de)
KÜHLSCHRANK

Title (fr)
RÉFRIGÉRATEUR

Publication
EP 3023717 A1 20160525 (EN)

Application
EP 15189499 A 20151013

Priority
KR 20140160576 A 20141118

Abstract (en)
Disclosed is a refrigerator. The refrigerator includes a cabinet (1) having a storage compartment (2), a duct unit (200) formed with a plurality of discharge holes (212, 222) for discharge of cold air to the storage compartment (2), the duct unit (200) providing a path for movement of the cold air, a guide (230) provided inside the duct unit (200), the guide (230) being configured to guide the cold air to be discharged to the storage compartment (2) by dividing the cold air, moving to the top of the duct unit (200), into opposite sides, and a compressor (600) configured to compress a refrigerant so as to supply the cold air to the duct unit (200). The guide (230) includes a Phase Change Material (PCM) having a melting point at a lower temperature than a temperature inside the storage compartment (2), the temperature inside the storage compartment (2) being set to initiate driving of the compressor (600).

IPC 8 full level
F25D 17/06 (2006.01); **F25D 11/00** (2006.01)

CPC (source: EP KR US)
F25D 11/006 (2013.01 - EP US); **F25D 11/02** (2013.01 - KR); **F25D 17/06** (2013.01 - EP US); **F25D 17/062** (2013.01 - US);
F25D 17/08 (2013.01 - KR US); **F25D 2317/0672** (2013.01 - EP US)

Citation (search report)
• [X] FR 2778733 A1 19991119 - AUSTRIA HAUS TECHNIK AKTIENGES [AT]
• [X] JP 2013245842 A 20131209 - SHARP KK
• [A] KR 20120011717 A 20120208 - LG ELECTRONICS INC [KR]
• [A] WO 2011158489 A1 20111222 - PANASONIC CORP [JP], et al

Cited by
CN110411123A

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 3023717 A1 20160525; EP 3023717 B1 20181205; KR 101706961 B1 20170215; KR 20160059129 A 20160526;
US 2016138849 A1 20160519

DOCDB simple family (application)
EP 15189499 A 20151013; KR 20140160576 A 20141118; US 201514941733 A 20151116