

Title (en)  
Refrigerator and control method thereof

Title (de)  
Kühlschrank und Steuerungsverfahren dafür

Title (fr)  
Réfrigérateur et son procédé de commande

Publication  
**EP 2559960 A3 20170705 (EN)**

Application  
**EP 12180410 A 20120814**

Priority  
KR 20110081383 A 20110816

Abstract (en)  
[origin: EP2559960A2] A refrigerator capable of having a storage compartment configured for a converted use as a freezing compartment or a refrigerating compartment includes a refrigerating compartment; a converting compartment configured for a variable use among freezing, refrigerating, and off; a cold air flow supplying apparatus having a compressor, a condenser, an evaporator, an expanding valve, a draft fan, a cold air flow supplying apparatus; a converting damper apparatus installed at the converting compartment discharging flow path for controlling the supply of the cold air flow to the converting compartment; and a refrigerating compartment damper apparatus installed at the refrigerating compartment discharging flow path for controlling the supply of the cold air flow to the refrigerating compartment.

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

CPC (source: EP KR US)  
**F25D 17/065** (2013.01 - EP US); **F25D 17/08** (2013.01 - KR); **F25D 23/12** (2013.01 - KR); **F25D 29/00** (2013.01 - KR); **F25D 29/00** (2013.01 - EP US); **F25D 2317/067** (2013.01 - EP); **F25D 2317/0683** (2013.01 - EP US); **F25D 2400/16** (2013.01 - EP US); **F25D 2700/121** (2013.01 - EP US)

Citation (search report)

- [A] KR 20100076089 A 20100706 - LG ELECTRONICS INC [KR]
- [A] WO 0216843 A1 20020228 - BPL REFRIGERATION LTD [IN], et al
- [A] EP 0553426 A1 19930804 - WHIRLPOOL EUROP [NL]

Cited by  
EP4180750A1; EP2789937A1; US11359855B2; EP3660423A1; EP3428557B1

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 2559960 A2 20130220; EP 2559960 A3 20170705; EP 2559960 B1 20190529**; KR 101809971 B1 20171218; KR 20130019307 A 20130226; PL 2559960 T3 20191231; US 2013042641 A1 20130221

DOCDB simple family (application)  
**EP 12180410 A 20120814**; KR 20110081383 A 20110816; PL 12180410 T 20120814; US 201213585915 A 20120815