

Title (en)
REFRIGERATOR

Title (de)
KÜHLVORRICHTUNG

Title (fr)
RÉFRIGÉRATEUR

Publication
EP 1826515 A1 20070829 (EN)

Application
EP 05787849 A 20050927

Priority
• JP 2005017676 W 20050927
• JP 2004362714 A 20041215
• JP 2005029900 A 20050207

Abstract (en)
A refrigerator (1) having a temperature switchable compartment (3) whose interior temperature can be switched among more than one alternatives is provided with: a cooling device (17) for producing cold air; a blower (14) for sending out the cold air produced by the cooling device (17) into the temperature switchable compartment (3); a temperature switchable compartment discharge damper (13) for opening and closing an air introduction path (12) through which the cooling device (17) communicates with the blower (14); and a temperature switchable compartment return damper (20) for opening and closing an air return path (19) through which an outlet port (33b), from which air in the temperature switchable compartment (3) flows out, communicates with the cooling device (17) and opens and closes a communication path (36) through which the outlet port (33b) communicates with the inlet side of the blower (14). When the communication path (36) is closed and the air return path (19) is opened by the temperature switchable compartment return damper (20) and the blower (14) is driven after the temperature switchable compartment discharge damper (13) is opened, cold air is introduced into the temperature switchable compartment (3). When the communication path (36) is opened and the air return path (19) is closed by the temperature switchable compartment return damper (20) and the blower (14) is activated after the temperature switchable compartment discharge damper (13) is closed, the air in the temperature switchable compartment (3) is circulated. In the temperature switchable compartment discharge damper (13), a baffle (42) is arranged closer to the cooling device (17) than an opening (40a) is, so that the baffle (42) is swingable even if moisture condensation occurs on the baffle (42) and the condensed water freezes.

IPC 8 full level
F25D 11/02 (2006.01); **F25D 17/04** (2006.01); **F25D 17/06** (2006.01); **F25D 17/08** (2006.01); **F25D 23/12** (2006.01); **F25D 31/00** (2006.01)

CPC (source: EP US)
F25D 17/065 (2013.01 - EP US); **F25D 23/12** (2013.01 - EP US); **F25D 31/005** (2013.01 - EP US); **F25B 2400/01** (2013.01 - EP US); **F25D 17/045** (2013.01 - EP US); **F25D 2317/061** (2013.01 - EP US); **F25D 2400/16** (2013.01 - EP US); **F25D 2700/121** (2013.01 - EP US)

Cited by
WO2012120410A1; CN101886868A; EP2339275A3; ITPD20110072A1; WO2012119843A2; WO2012119843A3

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 1826515 A1 20070829; **EP 1826515 A4 20140115**; RU 2007126841 A 20090127; RU 2350858 C1 20090327; US 2008047294 A1 20080228; US 2009235684 A1 20090924; WO 2006064601 A1 20060622

DOCDB simple family (application)
EP 05787849 A 20050927; JP 2005017676 W 20050927; RU 2007126841 A 20050927; US 48040809 A 20090608; US 66783605 A 20050927