

Title (en)

Refrigerator and method for producing supercooled liquid

Title (de)

Kühlschrank und Verfahren zur Herstellung von starkgekühlten Getränken

Title (fr)

Réfrigérateur et procédé pour produire des boissons superrefroidis

Publication

EP 1813894 A3 20091230 (EN)

Application

EP 06014948 A 20060718

Priority

KR 20060004207 A 20060114

Abstract (en)

[origin: EP1813894A2] A refrigerator for supercooling beverage into supercooled liquid and a method of producing the supercooled liquid using the same. The refrigerator includes a mixing room (40) provided in a main body (10) to mix chilled air from a freezer compartment (22) and a refrigerator compartment (21) with each other and having a first suction port (41) for suctioning the freezer compartment chilled air and a second suction port (42) for suction the refrigerator compartment chilled air, and a supercooling compartment (30) provided in the main body (10) to be directly or indirectly refrigerated by the chilled air mixed in the mixing room (40). The mixing room (40) and the supercooling compartment (30) may be provided either in the refrigerator compartment (21) or in the freezer compartment (22), or in an independent refrigerator compartment to form an independent refrigerating room separated from the freezer compartment (22).

IPC 8 full level

F25D 17/06 (2006.01)

CPC (source: EP KR US)

F25D 17/00 (2013.01 - KR); **F25D 17/045** (2013.01 - EP US); **F25D 17/065** (2013.01 - EP US); **F25D 23/00** (2013.01 - KR); **F25D 23/12** (2013.01 - KR); **F25D 29/00** (2013.01 - EP KR US); **F25D 31/007** (2013.01 - EP US); **F25D 2317/061** (2013.01 - EP US); **F25D 2317/0665** (2013.01 - EP US); **F25D 2317/0682** (2013.01 - EP US); **F25D 2400/28** (2013.01 - EP US); **F25D 2700/121** (2013.01 - EP US)

Citation (search report)

- [A] JP H11211319 A 19990806 - MATSUSHITA REFRIGERATION
- [A] US 5546759 A 19960820 - LEE SUN G [KR]
- [A] JP 2003065622 A 20030305 - SHARP KK
- [A] US 2004261444 A1 20041230 - CHASTINE GARY LESTER [US]

Cited by

WO2010071326A3; WO2010071323A3; US11910815B2; US11640741B2; US11837059B2; US9234696B2; US9234697B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1813894 A2 20070801; **EP 1813894 A3 20091230**; CN 101000199 A 20070718; KR 20070075677 A 20070724; RU 2006127370 A 20080210; RU 2324124 C1 20080510; US 2007163289 A1 20070719

DOCDB simple family (application)

EP 06014948 A 20060718; CN 200610108087 A 20060727; KR 20060004207 A 20060114; RU 2006127370 A 20060727; US 48203906 A 20060707