

Title (en)  
Refrigerator

Title (de)  
Kühlschrank

Title (fr)  
Réfrigérateur

Publication  
**EP 2339277 B1 20190605 (EN)**

Application  
**EP 10157229 A 20100322**

Priority  
• KR 20090129332 A 20091222  
• KR 20090129333 A 20091222  
• KR 20090129334 A 20091222

Abstract (en)  
[origin: EP2339277A2] A refrigerator (1) is provided. The refrigerator (1) includes a cabinet (10) defining a storage compartment; a door (11) configured to open and close the storage compartment, the door comprising an outer case (111) and a door liner (112); an ice maker (210) configured to generate ice cubes; an ice bin (300) provided at the refrigerator door, the ice bin storing the ice cubes generated in the ice maker (210); a dispenser (17) provided at the door, the dispenser (17) dispensing the ice cubes stored in the ice bin (310); and a vacuum insulation panel disposed between the outer case (111) and the ice bin (300) to insulate the storage compartment from an outside.

IPC 8 full level  
**F25D 23/12** (2006.01)

CPC (source: EP US)  
**F25C 5/22** (2017.12 - EP US); **F25D 23/02** (2013.01 - EP US); **F25C 5/046** (2013.01 - EP US); **F25C 2400/10** (2013.01 - EP US); **F25D 2201/14** (2013.01 - EP US)

Citation (opposition)  
Opponent : Winter Brandl Partnerschaft MbB  
• KR 20050103823 A 20051101 - LG ELECTRONICS INC [KR]  
• EP 1580504 A2 20050928 - LG ELECTRONICS INC [KR]  
• WO 2009091112 A2 20090723 - LG ELECTRONICS INC [KR], et al  
• US 2008148761 A1 20080626 - VENKATAKRISHNAN NATARAJAN [US], et al  
• CN 101307977 A 20081119 - HAIER GROUP CORP [CN]  
• EP 2317255 A2 20110504 - LG ELECTRONICS INC [KR]  
Opponent : Winter, Brandl, FurniB, Hübner, RoB, Kaiser, Polte -Partnerschaft mbB  
• US 2007113578 A1 20070524 - WU GUOLIAN [US], et al  
• WO 2006083111 A1 20060810 - LG ELECTRONICS INC [KR], et al  
• US 7437885 B2 20081021 - WU GUOLIAN [US], et al  
• CN 2499770 Y 20020710 - CHENG BIN [CN]  
• EP 1505359 A1 20050209 - MATSUSHITA REFRIGERATION [JP]  
• US 2009133428 A1 20090528 - AN JAE KOOG [KR], et al  
• US 2006213213 A1 20060928 - CHUNG SUNG H [KR], et al  
• US 2008134710 A1 20080612 - AN JAE-KOOG [KR], et al  
• US 2007080102 A1 20070412 - CUR NIHAT O [US], et al  
• EP 1647758 A2 20060419 - HITACHI HOME & LIFE SOLUTIONS [JP]  
• EP 1724513 A2 20061122 - HITACHI HOME & LIFE SOLUTIONS [JP]  
• JP 2006125804 A 20060518 - MATSUSHITA ELECTRIC IND CO LTD  
• JP 2007198621 A 20070809 - MATSUSHITA ELECTRIC IND CO LTD

Cited by  
EP2741035A3; EP2808627A3; EP3671080A1; US9671147B2; EP3957934A4; AU2019440809B2; US9851137B2; US10619904B2; US11293679B2; US10907882B2; US11435130B2; US11874053B2

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2339277 A2 20110629; EP 2339277 A3 20161221; EP 2339277 B1 20190605**; CN 102102931 A 20110622; EP 3537076 A1 20190911; EP 3537076 B1 20210811; EP 3961134 A1 20220302; EP 3995768 A1 20220511; US 2011146325 A1 20110623

DOCDB simple family (application)  
**EP 10157229 A 20100322**; CN 201010141619 A 20100329; EP 19167614 A 20100322; EP 21190519 A 20100322; EP 21190521 A 20100322; US 73046210 A 20100324