Title (en)

REFRIGERATOR AND FULL ICE LEVEL SENSING APPARATUS THEREOF

Title (de)

KÜHLSCHRANK UND VORRICHTUNG DAFÜR ZUR ERFASSUNG DES MAXIMALEN EISFÜLLUNGSZUSTANDS

Title (fr)

REFRIGERATEUR ET SON DISPOSITIF DE DETECTION DE PLEIN NIVEAU DE GLACE

Publication

EP 2399090 A4 20151216 (EN)

Application

EP 09840480 A 20091201

Priority

- KR 2009007115 W 20091201
- KR 20090014067 A 20090219

Abstract (en)

[origin: WO2010095804A1] A refrigerator and a fullan ice level sensing apparatus, the are provided. The refrigerator including a refrigerator may include a main body, and a fullan ice level sensing apparatus provided with including an electronic optical element unit for sending or receiving a signal, and an alignment unit device for aligning and maintaining alignment of the electronic optical element unit in a preset direction, and configured to. The sensing apparatus may sense whether an ice bank for storing ice cubes make storage container in which ice cubes made by an ice maker disposed at the refrigerator main body is at a full ice level, whereby. the The electronic optical element unit is allowed to may be aligned at a preset position by, thus preventing the movement of the electronic optical element unit, resulting in improvement of improved reliability of the sensing of the full ice level apparatus.

IPC 8 full level

F25C 1/24 (2006.01); **F25C 5/18** (2006.01); **F25D 29/00** (2006.01)

CPC (source: EP)

F25C 5/187 (2013.01); **F25C 5/22** (2017.12); **F25D 21/04** (2013.01); F25C 2400/10 (2013.01); F25C 2700/02 (2013.01); F25D 29/00 (2013.01)

Citation (search report)

- [XI] US 6286324 B1 20010911 - PASTRYK JIM J [US], et al
- [X] US 6314745 B1 20011113 - JANKE DONALD E [US], et al
- [X] US 2008157644 A1 20080703 - LEE DONG HOON [KR], et al
- See references of WO 2010095804A1

Cited by

US2020173707A1; US10837691B2

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DOCDB simple family (application)

KR 2009007115 W 20091201; AU 2009340579 A 20091201; CN 200980157248 A 20091201; EP 09840480 A 20091201; EP 18173989 A 20091201; KR 20090014067 A 20090219; MX 2011008088 A 20091201