

Title (en)
REFRIGERATOR

Title (de)
KÜHLVORRICHTUNG

Title (fr)
COMMUTATEUR ELECTRIQUE DE TRANSFERT AUTOMATIQUE COMPORTANT UNE PROTECTION DE SURCHARGE THERMIQUE

Publication
EP 1989496 A4 20100602 (EN)

Application
EP 06798936 A 20060927

Priority

- KR 2006003853 W 20060927
- KR 20060014692 A 20060215
- KR 20060061683 A 20060701
- KR 20060061688 A 20060701

Abstract (en)
[origin: WO2007094543A2] The present invention discloses a refrigerator which can keep the contents in a non-frozen state by an electric field generated by a radio frequency voltage. The refrigerator includes a setting unit for setting a amplitude and frequency cf a voltage, a generating unit for generating an electric field according to the voltage having the set amplitude and frequency, and applying the electric field to a storing space for storing the contents, and a freezing cycle for cooling the storing space. The contents are kept in a non-frozen state below a phase transition temperature.

IPC 8 full level
F25D 11/00 (2006.01); **A23L 3/32** (2006.01); **A23L 3/36** (2006.01); **F25D 23/00** (2006.01); **F25D 29/00** (2006.01)

CPC (source: EP US)
A23L 3/36 (2013.01 - EP US); **F25D 23/12** (2013.01 - EP US); **F25D 29/00** (2013.01 - EP US); **F25D 2400/02** (2013.01 - EP US); **F25D 2700/02** (2013.01 - EP US); **F25D 2700/12** (2013.01 - EP US); **F25D 2700/16** (2013.01 - EP US)

Citation (search report)

- [X] US 2003068414 A1 20030410 - ITO AKINORI [JP]
- [X] JP 2002364968 A 20021218 - EKOTEKKUSU KK, et al
- [X] JP 2003088347 A 20030325 - ABI KK
- [X] JP 2001317849 A 20011116 - FUKUSHIMA INDUSTRIES CORP
- [X] JP H02225987 A 19900907 - TOSHIBA CORP, et al
- See references of WO 2007094543A2

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

DOCDB simple family (publication)
WO 2007094543 A2 20070823; WO 2007094543 A3 20071011; AU 2006338354 A1 20070823; BR PI0621329 A2 20111206; EP 1989496 A2 20081112; EP 1989496 A4 20100602; US 2009044544 A1 20090219

DOCDB simple family (application)
KR 2006003853 W 20060927; AU 2006338354 A 20060927; BR PI0621329 A 20060927; EP 06798936 A 20060927; US 27952808 A 20081014