

Title (en)
Heat exchanger for refrigerator

Title (de)
Wärmetauscher für einen Kühlschrank

Title (fr)
Échangeur thermique pour réfrigérateur

Publication
EP 1852668 A3 20130123 (EN)

Application
EP 07250621 A 20070215

Priority
KR 20060039724 A 20060502

Abstract (en)
[origin: EP1852668A2] A heat exchanger (4,6) for a refrigerator with improved heat transfer efficiency by inducing turbulent flow in a refrigerant flowing along a refrigerant guiding tube. The heat exchanger (4,6) for the refrigerator comprised of: the refrigerant guiding tube (30) configured to allow the refrigerant to flow there through; a plurality of heat exchange fins (40) disposed around an outer peripheral surface of the refrigerant guiding tube (30), the plurality of heat exchange fins (40) increasing a heat exchange area of the refrigerant guiding tube (30); and a turbulent flow inducing member (60,60',60'',60''') positioned in the refrigerant guiding tube (30), whereby the turbulent flow inducing member (60,60',60'',60''') is configured to cause the refrigerant flowing along the refrigerant guiding tube (30) to form a turbulent flow.

IPC 8 full level
F28D 1/047 (2006.01); **F25B 39/00** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP KR US)
F25B 39/00 (2013.01 - EP KR US); **F25D 19/00** (2013.01 - KR); **F28D 1/0477** (2013.01 - EP US); **F28F 1/42** (2013.01 - KR); **F28F 13/12** (2013.01 - EP KR US); **F25B 41/00** (2013.01 - EP US); **F28F 1/24** (2013.01 - EP US); **Y10T 29/49377** (2015.01 - EP US)

Citation (search report)

- [XY] US 2001003309 A1 20010614 - AOYAGI OSAMU [JP], et al
- [Y] GB 1146162 A 19690319 - AMERICAN RADIATOR & STANDARD
- [Y] EP 0770845 A2 19970502 - SGL TECHNIK GMBH [DE]
- [Y] EP 1233241 A1 20020821 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [Y] GB 2310034 A 19970813 - ELECTROLUX ZANUSSI ELETTRODOME [IT]
- [Y] JP S60205192 A 19851016 - NIPPON DENSO CO

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 1852668 A2 20071107; **EP 1852668 A3 20130123**; CN 101067530 A 20071107; CN 101067530 B 20110112; KR 100752635 B1 20070829; US 2007256448 A1 20071108

DOCDB simple family (application)
EP 07250621 A 20070215; CN 200710086379 A 20070315; KR 20060039724 A 20060502; US 71098107 A 20070227