

Title (en)
REFRIGERATION UNIT

Title (de)
KÜHLEINHEIT

Title (fr)
GROUPE FRIGORIFIQUE

Publication
EP 1780492 A4 20100721 (EN)

Application
EP 05767439 A 20050729

Priority
• JP 2005013954 W 20050729
• JP 2004224898 A 20040730

Abstract (en)
[origin: EP1780492A1] An air conditioner comprises an outdoor heat exchanger having a plate fin whose surface is treated to have water-sliding properties and water repellency and a drain pan arranged under the outdoor heat exchanger. There is a gap throughout between the lower end portion of the outdoor heat exchanger and the upper surface of the drain pan. Water droplets condensed when the outdoor heat exchanger operates as an evaporator fall on the drain pan from the lower end portion of the plate fin. Since the plate fin and the drain pan are not in contact with each other, there is no such case that ice adheres to the contact portion and frost develops therefrom.

IPC 8 full level
F28F 13/18 (2006.01); **F25B 39/02** (2006.01); **F25B 47/02** (2006.01); **F28F 1/32** (2006.01); **F28F 17/00** (2006.01)

CPC (source: EP KR US)
F24F 1/18 (2013.01 - EP US); **F24F 1/36** (2013.01 - EP US); **F24F 13/22** (2013.01 - EP US); **F25B 39/02** (2013.01 - KR); **F28F 1/32** (2013.01 - EP KR US); **F28F 13/04** (2013.01 - EP US); **F28F 13/18** (2013.01 - KR); **F28F 17/00** (2013.01 - KR); **F28F 17/005** (2013.01 - EP US); **F25B 13/00** (2013.01 - EP US); **F25B 40/02** (2013.01 - EP US)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2006025169A1

Cited by
WO2012056165A1; FR2966914A1; CN113558437A; ITBO20120131A1; CN103292617A; WO2017070093A1

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)
EP 1780492 A1 20070502; EP 1780492 A4 20100721; EP 1780492 B1 20111123; AT E534878 T1 20111215; AU 2005278722 A1 20060309; AU 2005278722 B2 20081002; AU 2008207451 A1 20080911; AU 2008207452 A1 20080911; AU 2008207453 A1 20080911; CN 1989388 A 20070627; JP 2006046694 A 20060216; KR 20070026835 A 20070308; US 2008035318 A1 20080214; WO 2006025169 A1 20060309

DOCDB simple family (application)
EP 05767439 A 20050729; AT 05767439 T 20050729; AU 2005278722 A 20050729; AU 2008207451 A 20080821; AU 2008207452 A 20080821; AU 2008207453 A 20080821; CN 200580024341 A 20050729; JP 2004224898 A 20040730; JP 2005013954 W 20050729; KR 20077001512 A 20070122; US 63249905 A 20050729