

Title (en)  
AIR CHILLER

Title (de)  
LUFTKÜHLER

Title (fr)  
REFROIDISSEUR D'AIR

Publication  
**EP 3441685 A4 20190508 (EN)**

Application  
**EP 17860146 A 20171011**

Priority  
• JP 2016202648 A 20161014  
• JP 2017036811 W 20171011

Abstract (en)  
[origin: EP3441685A1] Provided is an air cooled chiller (1) that comprises a machine chamber, a heat exchanger chamber (14) provided on a top plate (15) of the machine chamber, and three or more independent systems of refrigerant circuits that have an air heat exchanger (7), a water heat exchanger, an expansion unit, and a compressor, wherein the air heat exchangers (7) in each refrigerant circuit are provided sequentially in the circumferential direction of a reference axis (c) that extends in the vertical direction in the heat exchanger chamber (14) so as to surround the reference axis (C), and the compressors in each refrigerant circuit are disposed so that the relative positions among same in the machine chamber in the plan view correspond to the relative positions of the air heat exchangers (7) in the heat exchanger chamber (14) in the plan view.

IPC 8 full level

**F24F 1/10** (2011.01); **F24F 1/16** (2011.01); **F24F 1/24** (2011.01); **F24F 1/26** (2011.01); **F24F 1/30** (2011.01); **F24F 1/46** (2011.01);  
**F24F 5/00** (2006.01); **F24F 11/30** (2018.01); **F24F 13/30** (2006.01); **F25B 1/00** (2006.01)

CPC (source: EP KR)

**F24F 1/10** (2013.01 - EP KR); **F24F 1/16** (2013.01 - EP KR); **F24F 1/24** (2013.01 - KR); **F24F 1/26** (2013.01 - EP KR); **F24F 1/30** (2013.01 - EP);  
**F24F 1/46** (2013.01 - EP); **F24F 5/00** (2013.01 - KR); **F24F 13/30** (2013.01 - EP KR); **F25B 1/00** (2013.01 - EP KR)

Citation (search report)

- [IY] JP 2014206330 A 20141030 - DAIKIN IND LTD
- [Y] JP 2010266126 A 20101125 - HITACHI APPLIANCES INC
- [Y] WO 2011099629 A1 20110818 - TOSHIBA CARRIER CORP [JP], et al
- [Y] CN 201539921 U 20100804 - GUANGDONG KELON AIR CONDITIONER CO LTD, et al
- [Y] WO 2015000114 A1 20150108 - TRANE INT INC [US], et al
- See references of WO 2018070422A1

Cited by  
RU193484U1; US202221228A1

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3441685 A1 20190213; EP 3441685 A4 20190508; CN 109073245 A 20181221; JP 2018063097 A 20180419; KR 20180132793 A 20181212;**  
WO 2018070422 A1 20180419

DOCDB simple family (application)  
**EP 17860146 A 20171011; CN 201780026521 A 20171011; JP 2016202648 A 20161014; JP 2017036811 W 20171011;**  
KR 20187031787 A 20171011