

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Climatiseur

Publication
EP 2725306 A3 20170621 (EN)

Application
EP 13185052 A 20130918

Priority
KR 20120119416 A 20121026

Abstract (en)
[origin: EP2725306A2] Disclosed herein is an air conditioner with an improved slim structure. The air conditioner includes a main body having an air suction port and an air discharge port, plural heat exchangers to heat-exchange with sucked air, and a cross-flow fan disposed between the heat exchangers and the air discharge port and configured to blow the air heat-exchanged by the heat exchangers to the air discharge port. The heat exchangers are disposed to the rear of a first imaginary surface which extends perpendicularly from an edge of the cross-flow fan at a front point, and a center in a forward and backward direction of each of the plural heat exchangers is disposed between the first imaginary surface and a second imaginary surface which extends perpendicularly from an edge of the cross-flow fan at a rear point. Performance of the heat exchangers may be maximized, and space-saving efficiency may be enhanced.

IPC 8 full level
F24F 1/0063 (2019.01); **F24F 1/0057** (2019.01); **F24F 1/0067** (2019.01)

CPC (source: EP KR US)
F24F 1/00 (2013.01 - KR); **F24F 1/0025** (2013.01 - EP); **F24F 1/0057** (2019.01 - EP US); **F24F 1/0063** (2019.01 - EP US); **F24F 1/0067** (2019.01 - EP US); **F24F 13/22** (2013.01 - KR); **F24F 13/30** (2013.01 - KR)

Citation (search report)
• [X] WO 0204871 A2 20020117 - CONVEC APS [DK], et al
• [Y] WO 2006035927 A1 20060406 - DAIKIN IND LTD [JP], et al
• [Y] US 5807170 A 19980915 - LEE GAB-YOUL [KR]
• [A] WO 03033965 A2 20030424 - LG ELECTRONICS INC [KR], et al

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EP3301376A1; JP2022180317A; US10337756B2; CN108139089A; EP3370000A4; JP2020051684A; JP2023041832A; WO2018235134A1

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 2725306 A2 20140430; EP 2725306 A3 20170621; CN 103791558 A 20140514; KR 20140056465 A 20140512

DOCDB simple family (application)
EP 13185052 A 20130918; CN 201310512773 A 20131025; KR 20120119416 A 20121026