

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2957773 A4 20160803 (EN)

Application
EP 13875217 A 20131210

Priority
• JP 2013024108 A 20130212
• JP 2013083027 W 20131210

Abstract (en)
[origin: EP2957773A1] Wind noise is reduced. An air conditioner includes: a cross flow fan 10 in which vane wheels 12 each including vanes 15 lined up in a circumferential direction are lined up in an axial direction; and a stabilizer 32 and a rear guider 20 which are provided on respective sides of an outer periphery of the cross flow fan 10 to form an air passage. A leading end portion of the rear guider 20 has a multi-stage shape so as to include level-difference portions 25, 26 which are deviated in the circumferential direction of the cross flow fan 10, and the level-difference portions 25, 26 include at least one first level-difference portion 26 which opposes an intermediate portion in the axial direction of at least one of the vane wheels 12. A leading end portion of the stabilizer 32 has a multi-stage shape so as to include level-difference portions 39, 40 which are deviated in the circumferential direction of the cross flow fan 10, and the level-difference portions 39, 40 include at least one first level-difference portion 40 which opposes an intermediate portion in the axial direction of at least one of the vane wheels 12.

IPC 8 full level
F04D 17/04 (2006.01); **F04D 29/28** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01); **F04D 29/66** (2006.01); **F04D 29/68** (2006.01); **F24F 1/00** (2011.01); **F24F 13/24** (2006.01)

CPC (source: EP)
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Citation (search report)
• [XA] JP S63113198 A 19880518 - TOSHIBA CORP
• [XA] EP 2405206 A1 20120111 - MITSUBISHI ELECTRIC CORP [JP]
• [X] CN 1752461 A 20060329 - LG ELECTRONICS TIANJIN [CN]
• [XA] JP 2002061867 A 20020228 - HITACHI LTD
• [XA] JP S61226595 A 19861008 - MATSUSHITA ELECTRIC IND CO LTD
• [X] JP S62131994 A 19870615 - MATSUSHITA ELECTRIC IND CO LTD
• [X] JP S62690 A 19870106 - MATSUSHITA ELECTRIC IND CO LTD
• See references of WO 2014125711A1

Cited by
US2024117810A1; EP3825615A1; US11578877B2

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