

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 1975522 A4 20111102 (EN)

Application
EP 06843414 A 20061227

Priority
• JP 2006326032 W 20061227
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• JP 2006011832 A 20060120

Abstract (en)
[origin: EP1975522A1] An air conditioner comprises an air intake port (4) for introducing the air in a room into the casing of an indoor unit (1), an air discharge port (5) formed at the lower part of the casing, an air flow path (6) for communicating the air intake port (4) with the air discharge port (5), an indoor heat exchanger (9) that has a refrigerant tube bent in a plurality of stages and rows and that is disposed curvedly along the inner surface of the casing so as to face the air intake port (4), and cross flow fan (7) disposed between the indoor heat exchanger (9) in the air flow path (6) and the air discharge port (5). The air flow path (6) includes a forward guide section (6a) which guides the air to the forward lower side and is gradually increased in its flow passage area toward the downstream side. The sum of the lengths of the upper wall (6b) and the lower wall (6c) of the air flow path (6) closer to the downstream side than the cross flow fan (7) is set to 3.5 times the diameter of the cross flow fan (7) or more.

IPC 8 full level
F24F 1/00 (2011.01); **F24F 1/0057** (2019.01)

CPC (source: EP KR US)
F24F 1/0025 (2013.01 - EP KR); **F24F 1/0057** (2019.01 - EP KR US); **F24F 13/08** (2013.01 - KR)

Citation (search report)
• [X] WO 2005052463 A1 20050609 - SHARP KK [JP], et al
• [X] EP 0930472 A2 19990721 - MITSUBISHI ELECTRIC CORP [JP]
• [X] US 3251540 A 19660517 - KINSWORTHY DONALD D
• [AD] JP 2003028089 A 20030129 - MATSUSHITA ELECTRIC IND CO LTD
• [AD] JP 2000111082 A 20000418 - FUJITSU GENERAL LTD
• See references of WO 2007083501A1

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CN104595975A; CN105757792A

Designated contracting state (EPC)
GR IT PT SE

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