

Title (en)
AXIAL FLOW WIND WHEEL, AIR CONDITIONER OUTDOOR UNIT AND AIR CONDITIONER

Title (de)
AXIALLÜFTERRAD, AUSSENEINHEIT FÜR KLIMAAANLAGE UND KLIMAAANLAGE

Title (fr)
ROUE À VENT À ÉCOULEMENT AXIAL, UNITÉ EXTÉRIEURE DE CLIMATISEUR, ET CLIMATISEUR

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Application
EP 18917336 A 20180727

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• CN 2018097379 W 20180727

Abstract (en)
[origin: EP3783229A1] An axial flow wind wheel (30), comprising a hub (31) and a plurality of blades (33), the plurality of blades being provided at intervals along a circumferential direction of the hub, each blade having a front edge (331), a tail edge (332) and an outer edge (333), an intersection point between the front edge and the outer edge being a first intersection point (A), an intersection point between the tail edge and the outer edge being a second intersection point (B), the projections of the first intersection points of the plurality of blades in a plane perpendicular to an axial direction of the hub being located on the same circumferential line, and the projections of the second intersection points of the plurality of blades in the plane perpendicular to the axial direction of the hub being located on the same circumferential line, the radius of the circle where the first intersection points are located being greater than the radius of the circle where the second intersection points are located. The axial flow wind wheel can improve the air supply volume, reduce noise, increase the heat exchange efficiency of an air conditioner, and reduce the power of the motor. An air conditioner outdoor unit and an air conditioner, comprising the axial flow wind wheel.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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• [X] CN 204082663 U 20150107 - SHUN KUANG CO LTD
• [X] WO 2017095029 A1 20170608 - SAMSUNG ELECTRONICS CO LTD [KR]
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• [Y] JP H1144432 A 19990216 - HITACHI LTD
• See references of WO 2019210591A1

Designated contracting state (EPC)
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