

Title (en)

PROPELLER FAN, PROPELLER FAN DEVICE, AND OUTDOOR EQUIPMENT FOR AIR-CONDITIONING DEVICE

Title (de)

PROPELLERLÜFTER, PROPELLERLÜFTERVORRICHTUNG UND AUSSENEINHEIT FÜR KLIMAANLAGE

Title (fr)

VENTILATEUR HÉLICOÏDE, DISPOSITIF DE VENTILATEUR HÉLICOÏDE, ET UNITÉ EXTÉRIEURE POUR DISPOSITIF DE CONDITIONNEMENT D'AIR

Publication

EP 3217018 A4 20180530 (EN)

Application

EP 14905593 A 20141104

Priority

JP 2014079190 W 20141104

Abstract (en)

[origin: EP3217018A1] A propeller fan (1) includes a boss (1a) and a blade (2) fixed to the boss (1a). The blade (2) has at least one of a shape in which a part of a leading edge (21) of the blade (2) protrudes toward a positive pressure surface (2a) side or a shape in which a part of a trailing edge (22) of the blade (2) protrudes toward a negative pressure surface (2b) side. A center (28) of the protrusion in a radial direction of the blade is located on a radially outer side with respect to a radial position at a half of a blade radius (Rt) from a rotation center line (RC). Thus, more equalized blowing airflow velocity distribution in the radial direction of the blade (2) can be achieved, thereby being capable of reducing noise.

IPC 8 full level

F04D 29/38 (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)

F04D 29/384 (2013.01); **F04D 29/667** (2013.01); **F05D 2240/303** (2013.01); **F05D 2240/304** (2013.01)

Citation (search report)

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- [A] WO 9205341 A1 19920402 - MOSER JOSEF [DE]
- [A] JP 2011179330 A 20110915 - PANASONIC CORP
- [A] US 2012114498 A1 20120510 - HSIEH CHI-HAO [TW], et al
- [A] US 2013091888 A1 20130418 - PARK JEONGTAEK [US], et al
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Designated contracting state (EPC)

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