

Title (en)

PROPELLER FAN, AIR-BLOWING DEVICE, AND OUTDOOR UNIT

Title (de)

PROPELLERLÜFTER, LUFTBLASVORRICHTUNG UND AUSSENEINHEIT

Title (fr)

VENTILATEUR À HÉLICE, DISPOSITIF DE SOUFFLAGE D'AIR, ET UNITÉ EXTÉRIEURE

Publication

EP 3043077 A1 20160713 (EN)

Application

EP 14840958 A 20140827

Priority

- JP 2013073505 W 20130902
- JP 2014072416 W 20140827

Abstract (en)

A propeller fan (1, 201, 301, 401) includes: a boss (3); and a plurality of blades (5) arranged on an outer periphery of the boss (3). A protruding portion (17, 217, 317, 417) is formed on a suction surface (15) of at least one of the blades (5). The protruding portion (17, 217, 317, 417) extends in a rotating direction at a position separated away from an outer peripheral edge of the blade. An inclination of a radially-inner skirt portion (17a) of the protruding portion (17, 217, 317, 417) is gentler than an inclination of a radially-outer skirt portion (17b) of the protruding portion (17, 217, 317, 417). A blowing flow is uniformized in a radial direction, thereby being capable of suppressing a locally-high velocity air stream.

IPC 8 full level

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CPC (source: EP)

F04D 29/384 (2013.01); **F04D 29/681** (2013.01); **F05D 2240/306** (2013.01)

Cited by

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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