Title (en)

BLOWER FOR OUTDOOR UNIT, OUTDOOR UNIT, AND REFRIGERATION CYCLE DEVICE

Title (de)

GEBLÄSE FÜR EINE AUSSENEINHEIT, AUSSENEINHEIT UND KÄLTEKREISLAUFVORRICHTUNG

Title (fr)

SOUFFLANTE POUR UNITÉ EXTÉRIEURE, UNITÉ EXTÉRIEURE ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication

EP 2618066 A1 20130724 (EN)

Application

EP 10857216 A 20100914

Priority

JP 2010005596 W 20100914

Abstract (en)

To provide an outdoor unit of a refrigeration cycle apparatus and the like, the outdoor unit and the like each including an air-sending device in which the generation of noise and the increase in power consumption are suppressed. A propeller fan 1 that rotates about a rotation axis extending in a vertical direction and a bellmouth 2 for rectifying gas are provided. The bellmouth 2 has a wall extending in a direction of rotation of blades of the propeller fan 1 and on an outer side of outer peripheral edges of the blades. The bellmouth 2 has a wall forming a sloping surface extending such that an air passage on an outlet side spreads outward. The bellmouth 2 has a shape satisfying conditions represented as a relationship of H/D #¥ 0.04 between a length H of the sloping surface in a direction of the rotation axis from an end on an inlet side to an end on the outlet side and a fan diameter D of the propeller fan 1, a relationship of 0 < ¸ #¤ 60° for an angle ¸ formed between a line connecting the ends of the sloping surface and the rotation axis, and a relationship of L/L0 #¥ 0.5 between a length L in the direction of the rotation axis from an opening on the inlet side to the end of the sloping surface on the inlet side and a length L0 of the blades of the propeller fan 1 in the direction of the rotational axis.

IPC 8 full level

F24F 1/00 (2011.01)

CPC (source: EP US)

F04D 29/522 (2013.01 - US); **F24F 1/38** (2013.01 - EP US); **F25D 17/06** (2013.01 - US)

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