

Title (en)

An air-conditioning fan with embedded swinging functions

Title (de)

Klimaanlagenlüfter mit eingebetteten Schwingfunktionen

Title (fr)

Ventilateur de climatisation d'air avec fonctions oscillantes intégrées

Publication

EP 2412982 A1 20120201 (EN)

Application

EP 10007928 A 20100729

Priority

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Abstract (en)

The present invention provides an air-conditioning fan with embedded swinging functions, comprising: a foundation, a holding portion, a guard net assembly portion and a support casing; the protruding end of the support casing is provided with a movable motor rack; a half-guard net, consisting of an assembly end and an open side, of which the open side is assembled at the guard net assembly portion of the foundation; an embedded rotary fan assembly, consisting of a drive motor, a rotary vane, a crank linkage and a rotary motor; of which the drive motor is assembled into the support casing; after penetrating a spherical abutting seat, the rotating shaft of the drive motor is universally pivoted and abutted onto the movable motor rack via the spherical abutting seat; the second linkage end of the crank linkage is designed in an axial tilt state, so an included angle is formed axially between the first and second linkage ends; with this design, the rotary vane of the air-conditioning fan can swing in an axial tilt state to change automatically wind outlet direction, so it is possible to increase the multi-directional wind outlet and achieve excellent structural robustness, lower vibration and noise with improved applicability.

IPC 8 full level

F04D 25/10 (2006.01); **F04D 25/12** (2006.01)

CPC (source: EP)

F04D 25/105 (2013.01); **F04D 25/12** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

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