

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 B1 20170628 (EN)**

Application

**EP 10007928 A 20100729**

Priority

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Abstract (en)

[origin: EP2412982A1] 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

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CPC (source: EP)

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