

Title (en)
Power saving and energy storage device for electric fan

Title (de)
Energieeinsparung und Energiespeichervorrichtung für elektrischen Lüfter

Title (fr)
Dispositif d'économie d'énergie et de stockage d'énergie pour ventilateur électrique

Publication
EP 2876304 A2 20150527 (EN)

Application
EP 14175291 A 20140701

Priority
TW 102142991 A 20131126

Abstract (en)
A power saving and energy storage device for an electric fan comprises an electric fan having a DC motor; at least one power generator module; and at least one electric storage unit. A shaft penetrates the DC motor, is connected with blades at one end and has an installation member at another end. The DC motor drives the shaft to rotate the blades. The power generator module is arranged in the installation member and includes a three-phase electric generation coil penetrated by the installation member and attached to the sidewall of the DC motor and a magnet ring arranged in the shaft and surrounds the three-phase electric generation coil. The rotating shaft drives the magnet ring to induce an alternating electromotive force in the three-phase electric generation coil. The electric storage unit receives and stores the alternating electromotive force. Thereby is recycled mechanical energy of the electric fan.

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Cited by
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