

Title (en)

Bearing cooling structure of heat dissipating fan

Title (de)

Kühlvorrichtung für die Lager eines wärmeableitenden Gebläses

Title (fr)

Dispositif de refroidissement de palier pour un ventilateur de dissipation de la chaleur

Publication

**EP 2302217 A3 20121107 (EN)**

Application

**EP 10158579 A 20100331**

Priority

CN 200920195454 U 20090925

Abstract (en)

[origin: EP2302217A2] A non-contact dust-proof structure of a heat dissipating fan includes a stator and a rotor. A bearing is fixed in an axial hole of a shaft of the stator. The rotor has an axle which is inserted in the bearing. The rotor further comprises an axle base disposed at a distal end of the axle. The axle base is inserted in the axial hole of the shaft. A gap is defined between an outer surface of the axle base and an inner surface of the axial hole. The outer surface of the axle base is formed with a plurality of air guiding grooves adapted to exhaust the air in the bearing. The air guiding grooves are spiral grooves or V-like grooves. When the rotor is turned at a high speed, the air guiding grooves will form an exhaust effect, achieving a non-contact dust-proof protection structure to block external dust or water from entering the bearing in the axial hole, so that the running of the bearing won't be influenced. The present invention ensures that the heat dissipating fan has a better function and a longer service life.

IPC 8 full level

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Citation (search report)

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