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(54) **Bearing cooling structure of heat dissipating fan**

(57) 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.

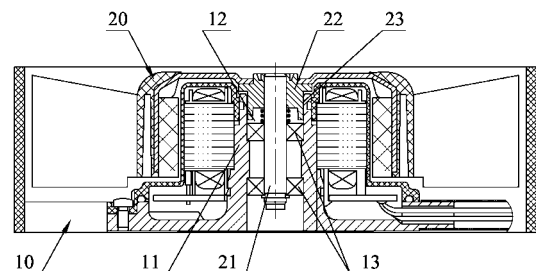


Fig.1



EUROPEAN SEARCH REPORT

Application Number
EP 10 15 8579

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2	Place of search The Hague	Date of completion of the search 3 October 2012	Examiner de Verbigier, L
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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