

Title (en)
Axial flow fan

Title (de)
Axiallüfter

Title (fr)
Ventilateur axial

Publication
EP 1070849 B1 20100324 (EN)

Application
EP 00114849 A 20000711

Priority
• KR 19990029802 A 19990722
• KR 19990029803 A 19990722

Abstract (en)
[origin: EP1070849A2] An axial flow fan for refrigerators is disclosed. In the axial flow fan of this invention, a hub(51) is mounted to the rotating shaft of a drive motor, with a plurality of blades(55) regularly fixed around the hub(51). A variety of designing factors of the blades, such as the number of blades, hub ratio, sweep angle, pitch angle and maximum camber ratio, are optimally designed to allow a smooth flow of cool air agreeable with both the large pressure loss and complex flow passage of refrigerators while accomplishing a reduction in air flow noise of the refrigerators. A vortex prevention means is provided on the concave back surface of the annular rim formed of the shroud for preventing discharged air from forming a vortex stream in back of the fan. <IMAGE>

IPC 8 full level
F04D 19/00 (2006.01); **F04D 29/32** (2006.01); **F04D 29/38** (2006.01); **F04D 29/54** (2006.01); **F04D 29/66** (2006.01); **F25D 17/06** (2006.01)

CPC (source: EP)
F04D 29/325 (2013.01); **F04D 29/384** (2013.01); **F04D 29/547** (2013.01); **F04D 29/666** (2013.01); **F25D 2317/0681** (2013.01)

Cited by
EP1326482A3; CN106870451A; US2017218972A1; AU2003207098B2; EP1316731A1; FR2833050A1; EP2886384A1; FR3015379A1; CN104763649A; US7946824B2; US11965522B2; US6994523B2; EP3253970B1

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 1070849 A2 20010124; **EP 1070849 A3 20020717**; **EP 1070849 B1 20100324**; DE 60044049 D1 20100506; JP 2001059499 A 20010306; JP 3469857 B2 20031125

DOCDB simple family (application)
EP 00114849 A 20000711; DE 60044049 T 20000711; JP 2000218758 A 20000714