

Title (en)
BLOWER ESPECIALLY FOR VENTILATING ELECTRONIC DEVICES

Title (de)
LÜFTER INSBESONDERE ZUR BELÜFTUNG VON ELEKTRONISCHEN GERÄTEN

Title (fr)
VENTILATEUR, NOTAMMENT POUR LA VENTILATION DE SYSTEMES ELECTRONIQUES

Publication
EP 1276994 B1 20051019 (DE)

Application
EP 01938021 A 20010315

Priority

- DE 10020878 A 20000428
- EP 0102943 W 20010315

Abstract (en)
[origin: WO0183994A1] The invention relates to a blower, especially for a personal computer. The aim of the invention is to reduce the noise produced by such a blower. To this end, the inventive blower comprises: a) a blower housing (10) that limits a flow channel (24) on the exterior by means of a guide surface (22); b) a rotor (18) that is mounted in the blower housing (10) so as to be rotatable about an axis of rotation (12) and that limits the flow channel (24) on the interior by means of its hub (14); c) a rotary drive (20) for the rotor (18) which is disposed in the hub (14); d) the blades (16) of the rotor (18) are asymmetrically distributed across the periphery of the hub (14) and are configured as radial blades; e) the guide surface (22) and the hub (14), in the blade zone between the leading edge (34) of the blade and the trailing edge (36) of the blade, when looked at in the direction of flow, have a conical or slightly bent and widening shape, and the cross-flow surface inside the flow channel (24) remains constant or is reduced.

IPC 1-7
F04D 17/06; **F04D 29/28**; **F04D 29/30**

IPC 8 full level
F04D 11/00 (2006.01); **F04D 17/06** (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01); **F04D 29/32** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP US)
F04D 17/06 (2013.01 - EP US); **F04D 25/0613** (2013.01 - EP); **F04D 29/281** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0183994 A1 20011108; AT E307294 T1 20051115; CN 1180184 C 20041215; CN 1426511 A 20030625; DE 10020878 A1 20011115; DE 10020878 C2 20020502; DE 50107752 D1 20060302; EP 1276994 A1 20030122; EP 1276994 B1 20051019; JP 2003532026 A 20031028; US 2003077175 A1 20030424; US 6814542 B2 20041109

DOCDB simple family (application)
EP 0102943 W 20010315; AT 01938021 T 20010315; CN 01808772 A 20010315; DE 10020878 A 20000428; DE 50107752 T 20010315; EP 01938021 A 20010315; JP 2001580982 A 20010315; US 25878702 A 20021028