

Title (en)
Fan and sensor

Title (de)
Lüfter mit einem Sensor

Title (fr)
Ventilateur avec capteur

Publication
EP 1531272 A3 20060222 (DE)

Application
EP 04024746 A 20041018

Priority
• DE 20318040 U 20031112
• DE 202004012411 U 20040807

Abstract (en)
[origin: US2005098641A1] A fan has a sensor (86; 186) for sensing at least one value of the air that flows through the fan (20; 120). The fan has a fan housing (22, 24; 122, 124); an electronically commutated external-rotor motor, arranged in that housing, having an internal stator (30; 130) and an external rotor (46; 146); a fan wheel (56; 156) coupled to the external rotor (46; 146); an air inlet opening (58; 90; 158) for the inflow of air that is to be moved by the fan wheel (56; 156); a circuit board (68; 185) having a portion (66; 188) that extends adjacent the air passage opening (58; 158); and conductors (82, 84; 182', 182'') arranged on that portion (66; 188), to which conductors the sensor (86; 186) is connected, preferably by a Surface Mounted Device (SMD) method. Premounting the sensor on the circuit board facilitates automated manufacture and reduces cost.

IPC 8 full level
F04D 27/00 (2006.01); **F04D 25/06** (2006.01)

CPC (source: EP US)
F04D 25/0633 (2013.01 - EP US); **F04D 25/0646** (2013.01 - EP US); **F04D 25/0666** (2013.01 - EP US); **F04D 27/001** (2013.01 - EP US)

Citation (search report)
• [XA] US 5436519 A 19950725 - TAKAHASHI SHUJI [JP], et al
• [A] US 6013966 A 20000111 - FEHRENBACHER WOLFGANG [DE], et al
• [A] US 6109890 A 20000829 - HORNG ALEX [TW]
• [A] DE 9100952 U1 19910529

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DE102016006888A1; DE102011111220A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 202004016545 U1 20041230; EP 1531272 A2 20050518; EP 1531272 A3 20060222; EP 1531272 B1 20151209;
US 2005098641 A1 20050512; US 7841541 B2 20101130

DOCDB simple family (application)
DE 202004016545 U 20041025; EP 04024746 A 20041018; US 96613404 A 20041014