

Title (en)
Fan

Title (de)
Lüfter

Title (fr)
Ventilateur

Publication
EP 1314894 B2 20120509 (DE)

Application
EP 02023117 A 20021015

Priority
• DE 20119155 U 20011126
• DE 20210846 U 20020718

Abstract (en)
[origin: EP1314894A2] A fan for a device comprises a fan wheel (46) driven by an external motor (20), whose inner stator (60) is fixed to a hub (22) which is itself attached to a cylindrical casing part (76) by a stay (74) distanced from the wheel. The casing can be detachably fixed to the device.
<??>An Independent claim is also included for an arrangement for producing a speed-dependent signal from the fan.

IPC 8 full level
F04D 25/06 (2006.01); **F04D 27/02** (2006.01); **F04D 29/60** (2006.01); **H02H 7/08** (2006.01); **H02H 7/093** (2006.01); **H02P 7/00** (2006.01)

CPC (source: EP US)
F04D 25/0613 (2013.01 - EP US); **F04D 29/601** (2013.01 - EP US); **Y10S 388/903** (2013.01 - EP US)

Citation (opposition)
Opponent :
• DE 4225534 A1 19940203 - GNAUERT ROLF [DE]
• DE 10009128 C1 20010816 - WET AUTOMOTIVE SYSTEMS AG [DE], et al
• DE 19703516 C1 19980507 - DAIMLER BENZ AG [DE]
• DE 19826458 A1 19991216 - PAPST MOTOREN GMBH & CO KG [DE]
• DE 4033092 A1 19920423 - TELEFUNKEN ELECTRONIC GMBH [DE]
• DE 19736300 A1 19980402 - VALEO ELECTRONIQUE [FR]

Cited by
DE102009053620A1; DE202015106847U1; CN106368865A; DE102014206277A1; WO2005095802A1; US9994085B2; EP3182607A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
DE 20215697 U1 20030102; AT E326635 T1 20060615; DE 50206794 D1 20060622; EP 1314894 A2 20030528; EP 1314894 A3 20031105; EP 1314894 B1 20060517; EP 1314894 B2 20120509; US 2003099561 A1 20030529; US 2005077792 A1 20050414; US 6864653 B2 20050308; US 7352094 B2 20080401

DOCDB simple family (application)
DE 20215697 U 20021012; AT 02023117 T 20021015; DE 50206794 T 20021015; EP 02023117 A 20021015; US 26240002 A 20020930; US 98230704 A 20041105