

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)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

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