

Title (en)  
MINI FAN

Title (de)  
MINILÜFTER

Title (fr)  
MINI-VENTILATEUR

Publication  
**EP 1851441 A1 20071107 (DE)**

Application  
**EP 05816289 A 20051210**

Priority  
• EP 2005013261 W 20051210  
• DE 202005003412 U 20050224

Abstract (en)  
[origin: WO2006089578A1] The invention relates to a mini fan comprising a fan wheel (64) provided with fan wings (80) and an electric motor (61) for driving said fan wheels. The drive motor (61) is provided with a permanent-magnet external rotor (62) and an internal stator (90) which is embodied in the form of a claw-pole stator provided with pole sheets (88, 110) whose claw poles (84, 86) are interlinked with each other. A coil body (57) is placed between the pole sheets and is provided with a central section connecting two opposite side parts (50, 56), one of which is embodied in the form of a support for electric elements (96, 98) of the motor (61).

IPC 8 full level  
**F04D 25/06** (2006.01); **H02K 1/14** (2006.01); **H02K 1/18** (2006.01); **H02K 21/22** (2006.01)

CPC (source: EP US)  
**F04D 25/0646** (2013.01 - EP US); **F04D 25/0666** (2013.01 - EP US); **H02K 1/145** (2013.01 - EP US); **H02K 1/187** (2013.01 - EP US); **H02K 3/525** (2013.01 - EP US); **H02K 21/22** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006089578A1

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**WO 2006089578 A1 20060831**; EP 1851441 A1 20071107; JP 2008532463 A 20080814; JP 4977039 B2 20120718; US 2007134109 A1 20070614

DOCDB simple family (application)  
**EP 2005013261 W 20051210**; EP 05816289 A 20051210; JP 2007556499 A 20051210; US 59704505 A 20051210