

Title (en)  
ELECTRIC MOTOR WITH IMPELLER

Title (de)  
ELEKTROMOTOR MIT EINEM GEBLÄSERAD

Title (fr)  
MOTEUR ELECTRIQUE A VENTILATEUR

Publication  
**EP 0964635 B1 20030129 (DE)**

Application  
**EP 97914196 A 19970306**

Priority  
• EP 9701139 W 19970306  
• DE 19605742 A 19960216

Abstract (en)  
[origin: WO9838899A1] The invention relates to an electric motor (1) with an impeller (3) and a diffuser (4) which is connected radially to said impeller (3). Said impeller (3) has guide blades (21) with a guide blade height (b4) and said diffuser (4) has walls (8) with a wall height (b2). According to the invention, the height of the diffuser wall (b2) to the height of the guide blades (b4) should range between 1.7 and 1.2 approximately, in order to create an electric motor with a impeller (3) and a diffuser (4) connected radially to said impeller (3) which has a good production design, which will remain stable and achieve a good degree of efficiency during strong throttling.

IPC 1-7  
**A47L 5/22**; **F04D 29/44**

IPC 8 full level  
**A47L 5/22** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)  
**A47L 5/22** (2013.01); **F04D 29/444** (2013.01); **F05D 2250/52** (2013.01)

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

DOCDB simple family (publication)  
**WO 9838899 A1 19980911**; AT E231703 T1 20030215; CZ 297722 B6 20070314; CZ 300499 A3 20000816; DE 19605742 A1 19970821; DE 59709247 D1 20030306; DK 0964635 T3 20030526; EP 0964635 A1 19991222; EP 0964635 B1 20030129; ES 2187763 T3 20030616; JP 2001513861 A 20010904; PL 183560 B1 20020628; PL 335112 A1 20000410; PT 964635 E 20030630; SK 120099 A3 20000516; SK 285632 B6 20070503

DOCDB simple family (application)  
**EP 9701139 W 19970306**; AT 97914196 T 19970306; CZ 300499 A 19970306; DE 19605742 A 19960216; DE 59709247 T 19970306; DK 97914196 T 19970306; EP 97914196 A 19970306; ES 97914196 T 19970306; JP 53808398 A 19970306; PL 33511297 A 19970306; PT 97914196 T 19970306; SK 120099 A 19990902