

Title (en)  
Blower and scroll casing

Title (de)  
Gebläse mit einem Spiralgehäuse

Title (fr)  
Soufflante et boîtier helicoidal

Publication  
**EP 1046822 A3 20021009 (DE)**

Application  
**EP 00108259 A 20000414**

Priority  
DE 19918085 A 19990421

Abstract (en)  
[origin: EP1046822A2] The blower has a rotor (2) rotatably located in a spiral housing. Blades (5) are distributed on the rotor periphery and a concentric suction aperture (7) is enclosed by a cover plate (6) connected on one side to the blades. The flow coming from the suction aperture in the central space sector of the rotor is deflected in an arc of approximately 90 degrees through the blades. The side of each blade facing the cover plate forms a multiply curved line, which is at least virtually vertical on the out of the blade and from there curves outwards, in order to form an arc open to the blade in the vicinity of the suction aperture a ends at a distance from the aperture approximately at its level.

IPC 1-7  
**F04D 29/28**; **F04D 29/66**

IPC 8 full level  
**F04D 29/28** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)  
**F04D 29/282** (2013.01); **F04D 29/661** (2013.01)

Citation (search report)  
• [A] EP 0627560 A1 19941207 - SEL ALCATEL AG [DE]  
• [A] US 4089618 A 19780516 - PATEL JAY  
• [A] GB 2097106 A 19821027 - ZANUSSI A SPA INDUSTRIE  
• [AD] DE 3137554 A1 19830331 - GEBHARDT GMBH WILHELM [DE]

Cited by  
WO2007128641A1

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

DOCDB simple family (publication)  
**EP 1046822 A2 20001025**; **EP 1046822 A3 20021009**; **EP 1046822 B1 20041110**; DE 19918085 A1 20001026; DE 50008560 D1 20041216

DOCDB simple family (application)  
**EP 00108259 A 20000414**; DE 19918085 A 19990421; DE 50008560 T 20000414