

Title (en)
Once-through blower

Title (de)
Querstromlüfter

Title (fr)
Ventilateur à courant transversal

Publication
EP 0928899 A2 19990714 (EN)

Application
EP 98114422 A 19980731

Priority
JP 360698 A 19980112

Abstract (en)
A once-through blower including a once-through impeller (8) is described. The blower includes a blowout duct (10), a stabilizer (13) and a scroll casing (9). The stabilizer (13) provided at an end of the blowout duct (10) so as to face the once-through impeller (8). The scroll casing (9) is provided at the back of the once-through impeller (8) and connected to the blowout duct (10). The stabilizer (13) has a curved surface (18) which is formed along an arc (15). The diameter of the arc (15) is 103% or more of that of the once-through impeller (8). The scroll casing (9) has an interior curved surface (19) which is formed along a casing arc. The casing arc is concentric with the arc center (21). A clearance between a predetermined outer peripheral point (23) of the once-through impeller (8) and the inflow-side end of the scroll casing (9) is set so as to become 3% or more of the diameter of the once-through impeller (8). <IMAGE>

IPC 1-7
F04D 17/04; **F04D 29/42**

IPC 8 full level
F04D 17/04 (2006.01); **F04D 29/42** (2006.01); **F24F 1/00** (2011.01)

CPC (source: EP)
F04D 17/04 (2013.01); **F04D 29/422** (2013.01)

Citation (applicant)
• JP H05296479 A 19931109 - TOSHIBA CORP
• JP H07305695 A 19951121 - SANYO ELECTRIC CO

Cited by
EP0930472A3; EP1378668A1; CN100416110C; US6935835B2

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0928899 A2 19990714; **EP 0928899 A3 20000503**; **EP 0928899 B1 20040107**; CN 1115523 C 20030723; CN 1223360 A 19990721; DE 69820976 D1 20040212; DE 69820976 T2 20041021; ES 2212179 T3 20040716; HK 1021656 A1 20000623; JP 3649567 B2 20050518; JP H11201487 A 19990730; TW 360767 B 19990611

DOCDB simple family (application)
EP 98114422 A 19980731; CN 98118773 A 19980827; DE 69820976 T 19980731; ES 98114422 T 19980731; HK 00100364 A 20000120; JP 360698 A 19980112; TW 87111265 A 19980710