

Title (en)  
SIDE CHANNEL COMPRESSOR

Title (de)  
SEITENKANALVERDICHTER

Title (fr)  
COMPRESSEUR A CONDUIT LATERAL

Publication  
**EP 1165965 B1 20030730 (DE)**

Application  
**EP 00920569 A 20000324**

Priority  
• DE 19913950 A 19990326  
• EP 0002624 W 20000324

Abstract (en)  
[origin: US6779968B1] A side channel compressor comprises an inlet port (42) for gas and an outlet port (44) for compressed gas as well as a side channel (32) which provides a flow connection between the inlet port (42) and the outlet port (44), the cross-section of the side channel (32) diminishing between the inlet port (42) and the outlet port (44). The side channel (32) has at least one section in which it has a cross-section in the form of a half ellipse and in which the maximum depth of the channel (32) continuously diminishes towards the outlet port (44).

IPC 1-7  
**F04D 23/00**

IPC 8 full level  
**F04D 23/00** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP KR US)  
**F04D 23/00** (2013.01 - KR); **F04D 23/008** (2013.01 - EP US)

Cited by  
EP3869098A1

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)  
**US 6779968 B1 20040824**; AT E246316 T1 20030815; AU 4109800 A 20001016; AU 763252 B2 20030717; CN 1119531 C 20030827; CN 1345400 A 20020417; DE 19913950 A1 20000928; DE 50003108 D1 20030904; DK 1165965 T3 20031117; EP 1165965 A1 20020102; EP 1165965 B1 20030730; ES 2203451 T3 20040416; JP 2002540350 A 20021126; KR 100637090 B1 20061023; KR 20020002406 A 20020109; WO 0058629 A1 20001005

DOCDB simple family (application)  
**US 93739302 A 20020103**; AT 00920569 T 20000324; AU 4109800 A 20000324; CN 00805576 A 20000324; DE 19913950 A 19990326; DE 50003108 T 20000324; DK 00920569 T 20000324; EP 0002624 W 20000324; EP 00920569 A 20000324; ES 00920569 T 20000324; JP 2000608093 A 20000324; KR 20017012119 A 20010924