

Title (en)  
Side-channel compressor with tapered channel

Title (de)  
Seitenkanalverdichter mit sich verjüngendem Kanalquerschnitt

Title (fr)  
Compresseur à canal latéral effilé

Publication  
**EP 0863314 B1 20021002 (DE)**

Application  
**EP 98103724 A 19980303**

Priority  
DE 19708952 A 19970305

Abstract (en)  
[origin: EP0863314A1] The side-channel compressor has a running wheel with scoops which can turn to compress the gas in a casing with a side channel. The cross-section of the side channel narrows from the induction side (2) towards the compression side (3). The narrowing of the channel cross-section may be continuous and may amount to 20-40%, preferably 30%, of the cross-section of the side channel at the gas input. The cross-section may narrow from about 130% at the gas inlet to about 100% at the gas outlet.\*Rotary compressor for air or industrial gases

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

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

CPC (source: EP)  
**F04D 23/008** (2013.01)

Cited by  
WO2009059719A1; US2016010659A1; EP1672222A3; CN1119531C; US2011052378A1; US8662822B2; KR101540999B1; US6779968B1; WO2007146882A1; WO0058629A1; TWI479082B

Designated contracting state (EPC)  
DE ES FR IT SE

DOCDB simple family (publication)  
**EP 0863314 A1 19980909; EP 0863314 B1 20021002**; DE 19708952 A1 19980917; DE 59805750 D1 20021107; ES 2180084 T3 20030201

DOCDB simple family (application)  
**EP 98103724 A 19980303**; DE 19708952 A 19970305; DE 59805750 T 19980303; ES 98103724 T 19980303