

Title (en)  
Side channel compressor

Title (de)  
Seitenkanalverdichter

Title (fr)  
Compresseur à canal latéral

Publication  
**EP 0708248 B1 20000112 (DE)**

Application  
**EP 95115950 A 19951010**

Priority  
DE 4437589 A 19941020

Abstract (en)  
[origin: EP0708248A2] The compressor has a 2-part housing (1,2) containing a rotary paddle wheel (4) having a number of paddle blades (6) attached to a carrier ring (5), fitted to a driven hub (7). The compression space between the paddle wheel and the housing is sealed in the vicinity of the carrier ring by radial sealing rings (8), on either side of the latter. The sealing rings are each held by a respective retaining ring (10), secured to a bearing surface provided by one or other part of the compressor housing. Pref. the retaining rings are secured by screws, each sealing ring having a notch for locating the end face of the carrier ring.

IPC 1-7  
**F04D 23/00**; **F04D 29/16**

IPC 8 full level  
**F04D 23/00** (2006.01); **F04D 29/08** (2006.01); **F04D 29/12** (2006.01); **F04D 29/16** (2006.01)

CPC (source: EP US)  
**F04D 23/008** (2013.01 - EP US); **F04D 29/083** (2013.01 - EP US)

Cited by  
WO9804836A1; WO0068577A1; DE10041332C1; US6129508A; DE19921765A1; CN110023630A; EP3660320A1; EP3660321A1; EP1672221A2; US11859630B2; WO2018091397A1; EP3542065B1; EP3660320B1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0708248 A2 19960424**; **EP 0708248 A3 19970402**; **EP 0708248 B1 20000112**; DE 59507602 D1 20000217; JP H08210293 A 19960820; US 5658126 A 19970819

DOCDB simple family (application)  
**EP 95115950 A 19951010**; DE 59507602 T 19951010; JP 29206595 A 19951013; US 53397295 A 19950926