

Title (en)
Housing for a high pressure compressor

Title (de)
Gehäuse für einen Hochdruckkompressor

Title (fr)
Stator de compresseur à haute pression

Publication
EP 1059420 A1 20001213 (FR)

Application
EP 00401609 A 20000608

Priority
FR 9907315 A 19990610

Abstract (en)
Compressor stator has upstream ventilation (17,19) and downstream ventilation (18, 20) for air which is hotter than upstream ventilation. It has collar (11) delimiting gas flow vein (12). First portion of collar, subjected to upstream ventilation has annular structure continuous over circumference and in low thermal expansion material. Second portion of collar, subjected to downstream ventilation, has structure formed from juxtaposed angular sectors in material with more significant thermal expansion.

IPC 1-7
F01D 11/18

IPC 8 full level
F01D 11/18 (2006.01); **F04D 29/02** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP US)
F01D 11/18 (2013.01 - EP US); **F04D 29/545** (2013.01 - EP US)

Citation (search report)

- [A] US 5314303 A 19940524 - CHARBONNEL JEAN-LOUIS [FR], et al
- [A] US 4578942 A 19860401 - WEILER WOLFGANG [DE]
- [A] US 3854843 A 19741217 - PENNY R
- [A] US 4101242 A 19780718 - COPLIN JOHN FREDERICK, et al
- [A] US 5127794 A 19920707 - BURGE JOSEPH C [US], et al
- [A] US 4805398 A 19890221 - JOURDAIN GERARD E A [FR], et al
- [A] US 5160241 A 19921103 - GLYNN CHRISTOPHER C [US]

Cited by
EP1965034A1; EP2841753A4; CN102705254A; CN101952557A; RU2483218C2; FR2913051A1; EP2071133A1; FR2925109A1; WO2013162752A1; US8888448B2; WO2009123301A3; WO2010026179A1; WO2010026181A1; WO2010026182A1; EP1561998A1; US8403636B2; EP1561998B1; FR3086323A1; WO2020065178A1; US11566538B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1059420 A1 20001213; EP 1059420 B1 20041208; DE 60016505 D1 20050113; DE 60016505 T2 20051103; FR 2794816 A1 20001215; FR 2794816 B1 20010706; JP 2001012396 A 20010116; JP 4124552 B2 20080723; US 6390771 B1 20020521

DOCDB simple family (application)
EP 00401609 A 20000608; DE 60016505 T 20000608; FR 9907315 A 19990610; JP 2000154077 A 20000525; US 58679100 A 20000605