

Title (en)
Diffuser for compressor

Title (de)
Verdichterdiffusor

Title (fr)
Diffuseur pour compresseur

Publication
EP 1574667 A1 20050914 (DE)

Application
EP 04004895 A 20040302

Priority
EP 04004895 A 20040302

Abstract (en)
The input region (4) of the diffuser (1) has a connection piece (3) immediately following guide blades (8) at the turbine exit. The diffuser has a modified circular cross-section (7) with an internal tapered rib (5). The thickest part (6) of the rib is in the narrowest part of the diffuser. The diffuser housing (2) gradually increases in inside diameter with distance from the turbine outlet.

Abstract (de)
Es wird eine Gasturbine mit einem am Ausgang ihres Verdichters angeordneten Diffusor (1) mit einem Diffusorgehäuse (2), angegeben, wobei das Diffusorgehäuse (2) in einem Anschlussbereich (3) zum Anschluss an die Gasturbine eine den Innenradius des Gehäuses (2) verringernde Einschnürung (5) aufweist. <IMAGE>

IPC 1-7
F01D 5/14; **F01D 9/02**; **F01D 25/30**

IPC 8 full level
F01D 5/14 (2006.01); **F01D 9/02** (2006.01); **F01D 25/30** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP)
F04D 29/541 (2013.01)

Citation (search report)

- [X] EP 1253295 A2 20021030 - MITSUBISHI HEAVY IND LTD [JP]
- [X] US 3625630 A 19711207 - SOO SHAO L
- [X] EP 1227217 A2 20020731 - MITSUBISHI HEAVY IND LTD [JP]
- [X] US 4180972 A 19800101 - HERMAN AVRUM S [US], et al
- [X] GB 2057672 A 19810401 - ROLLS ROYCE
- [X] SU 1657672 A1 19910623 - PROIZV OB NEVSKIJ Z IM V I [SU], et al
- [X] US 4315715 A 19820216 - NISHIGUCHI FUMIO, et al
- [X] FR 1448244 A 19660805
- [X] US 6035964 A 20000314 - LANGE KURT-JURGEN [DE]
- [X] US 3879939 A 19750429 - MARKOWSKI STANLEY J
- [X] US 2002078690 A1 20020627 - STUTTAFFORD PETER [CA], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 15 6 April 2001 (2001-04-06)

Cited by
JP2012511115A; WO2010063583A1; DE102012215412A1; CN115962154A; EP2194231A1; EP2455585A1; CN102536912A; RU2485358C2; RU2507421C2; US9366148B2; US8721272B2; US8721273B2

Designated contracting state (EPC)
CH DE GB IT LI

DOCDB simple family (publication)
EP 1574667 A1 20050914; EP 1574667 B1 20130717

DOCDB simple family (application)
EP 04004895 A 20040302