

Title (en)
Gasturbine rotor

Title (de)
Gasturbinenrotor

Title (fr)
Rotor de turbine à gaz

Publication
EP 1321626 A1 20030625 (DE)

Application
EP 01130725 A 20011221

Priority
EP 01130725 A 20011221

Abstract (en)
Gas turbine comprises a compressor part (7) and a turbine part (13) that are rotationally fixed together. A tie rod (4) and compressor disks (29) are provided in the compressor part, and turbine disks (41) in the turbine part. The compressor disks are fixed centrally on the tie rod. The turbine disks are decentrally fixed. The gas turbine also comprises a multi-fixing disk (35) between a rear compressor disk and a front turbine disk. The multifixing disk is fixed centrally to the compressor disks. <??>Preferred Features: The multi-fixing disk is fixed decentrally to the turbine disks. An intermediate part (38) is arranged between the multi-fixing disk and a turbine disk to adjust the distance between the disks. A decentral bore (53) in the turbine disks allows the introduction of steam to the turbine blades for cooling.

Abstract (de)
Nach dem Stand der Technik werden Verdichterscheiben und Turbinenscheiben in einer Turbine entweder zentral oder dezentral befestigt. Der erfindungsgemässe Turbine weist eine Mehrfachbefestigungsscheibe (35) auf, die eine zentrale Befestigung im Verdichterbereich (7) und eine dezentrale Befestigung im Turbinenteil (13) ermöglicht. <IMAGE>

IPC 1-7
F01D 5/06

IPC 8 full level
F01D 5/06 (2006.01); **F01D 5/08** (2006.01)

CPC (source: EP)
F01D 5/06 (2013.01); **F01D 5/066** (2013.01); **F01D 5/085** (2013.01); **F05D 2260/2322** (2013.01)

Citation (search report)
• [Y] US 5860789 A 19990119 - SEKIHARA MASARU [JP], et al
• [Y] GB 610314 A 19481014 - POWER JETS RES & DEV LTD, et al
• [A] US 6267553 B1 20010731 - BURGE JOSEPH C [US]
• [A] US 6094905 A 20000801 - FUKUYAMA YOSHITAKA [JP]

Cited by
CN104204410A; WO2009118036A1; DE102008060571A1; WO2010063272A1; US8764390B2; EP1749979A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1321626 A1 20030625; WO 03054355 A1 20030703

DOCDB simple family (application)
EP 01130725 A 20011221; EP 0213621 W 20021202