

Title (en)

A monoblock body for a rotor of a gas turbine engine

Title (de)

Integriertes Rotorelement für den Rotor einer Gasturbine

Title (fr)

Un corps monobloc pour un rotor d'un moteur à turbine à gaz

Publication

EP 1637701 A1 20060322 (FR)

Application

EP 05108632 A 20050919

Priority

FR 0452102 A 20040921

Abstract (en)

The module has a monoblock body (109') formed from two of five disks (109A3-109E3) of a rotor (109). The disks (109B3, 109C3) have respective lateral interdisk ferrules (109BA, 109CD) with corresponding radial flanges through which the disks (109B3, 109C3) are bolted to the disks (109A3, 109D3). Interstage rings (131,132) are placed on the ferrules at the end of the body (109').

IPC 8 full level

F01D 25/24 (2006.01); **F01D 5/06** (2006.01)

CPC (source: EP US)

F01D 5/063 (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US)

Citation (applicant)

- EP 1264964 A1 20021211 - SNECMA MOTEURS [FR]
- US 5899660 A 19990504 - DODD ALEC G [GB]
- US 4248569 A 19810203 - THEBERT GLENN W

Citation (search report)

- [XY] US 5350278 A 19940927 - BURGE JOSEPH C [US]
- [Y] US 3644057 A 19720222 - STEINBARGER JAY O
- [DX] US 2002187046 A1 20021212 - BEUTIN BRUNO [FR], et al
- [PX] US 2005025625 A1 20050203 - ESCURE DIDIER [FR], et al
- [X] EP 0704601 A1 19960403 - GEN ELECTRIC [US]
- [A] US 5470524 A 19951128 - KRUEGER WOLFGANG [DE], et al
- [A] US 5320487 A 19940614 - WALKER ROGER C [US], et al

Cited by

FR2961848A1; FR3126022A1; US8734100B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1637701 A1 20060322; EP 1637701 B1 20170104; EP 1637701 B2 20191225; CA 2520069 A1 20060321; CA 2520069 C 20130312; FR 2875534 A1 20060324; FR 2875534 B1 20061222; JP 2006090320 A 20060406; JP 5072207 B2 20121114; RU 2005129353 A 20070327; RU 2377417 C2 20091227; US 2006251520 A1 20061109; US 7507072 B2 20090324

DOCDB simple family (application)

EP 05108632 A 20050919; CA 2520069 A 20050919; FR 0452102 A 20040921; JP 2005271465 A 20050920; RU 2005129353 A 20050920; US 22967605 A 20050920