

Title (en)
Turbine module for gas turbine engine

Title (de)
Turbinenmodule für einen Gasturbinenmotor

Title (fr)
Module de turbine pour moteur à turbine à gaz

Publication
EP 1637702 A1 20060322 (FR)

Application
EP 05108736 A 20050921

Priority
FR 0452103 A 20040921

Abstract (en)
The module has two consecutive stages of turbine wheel separated by annular distributors inside a casing (120). The distributors comprise several units (114A) provided in the form of a ring sector and are wedged inside the casing by an axial hook (121A) integrated to the casing or to the units (114A). The units (114A) cooperate with a pair of axial hooks (113A1, 113A2) integrated to the units (114A) or to the casing respectively. An independent claim is also included for a gas turbine engine comprising a low pressure turbine module.

IPC 8 full level
F01D 25/24 (2006.01); **F01D 5/06** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)
F01D 5/06 (2013.01 - EP US); **F01D 11/001** (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US)

Citation (applicant)
• US 5899660 A 19990504 - DODD ALEC G [GB]
• US 4248569 A 19810203 - THEBERT GLENN W
• US 3644057 A 19720222 - STEINBARGER JAY O

Citation (search report)
• [XY] US 5503528 A 19960402 - GLEZER BORIS [US], et al
• [Y] US 5350278 A 19940927 - BURGE JOSEPH C [US]
• [X] US 3963368 A 19760615 - EMMERSON CALVIN W
• [X] US 5131811 A 19920721 - JOHNSON THOMAS G [US]
• [A] US 5320487 A 19940614 - WALKER ROGER C [US], et al
• [DA] US 3644057 A 19720222 - STEINBARGER JAY O
• [A] US 5616003 A 19970401 - CHARBONNEL JEAN-LOUIS [FR], et al
• [A] WO 03102379 A1 20031211 - MTU AERO ENGINES GMBH [DE], et al

Cited by
FR2968030A1; FR2960590A1; FR3104194A1; US8979489B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1637702 A1 20060322; **EP 1637702 B1 20161116**; CA 2520282 A1 20060321; CA 2520282 C 20130312; FR 2875535 A1 20060324; FR 2875535 B1 20091030; JP 2006090322 A 20060406; JP 5005901 B2 20120822; RU 2005129351 A 20070327; RU 2377421 C2 20091227; US 2007231133 A1 20071004; US 7828521 B2 20101109

DOCDB simple family (application)
EP 05108736 A 20050921; CA 2520282 A 20050920; FR 0452103 A 20040921; JP 2005271838 A 20050920; RU 2005129351 A 20050920; US 22972605 A 20050920