

Title (en)

Protection method and control system for a gas turbine

Title (de)

Schutzverfahren und Steuerungssystem für eine Gasturbine

Title (fr)

Méthode de protection et système de contrôle pour turbine à gaz

Publication

EP 1688671 B1 20151209 (DE)

Application

EP 06101128 A 20060201

Priority

CH 1612005 A 20050203

Abstract (en)

[origin: EP1688671A1] Pressure pulsation (P) occurring during a gas turbine's (1) operation is measured. Generated from measured pressure pulsation, a pulsation time signal (PZS) is transformed into a pulsation frequency signal (PFS) used to determine a pulsation level (PL) for a predefined monitoring frequency band (12). An independent claim is also included for a control system for a gas turbine.

IPC 8 full level

F23N 5/16 (2006.01); **F23N 5/24** (2006.01)

CPC (source: EP US)

F23N 5/16 (2013.01 - EP US); **F23N 5/242** (2013.01 - EP US); **F23N 2225/04** (2020.01 - EP US); **F23N 2241/20** (2020.01 - EP US); **F23R 2900/00013** (2013.01 - EP US)

Citation (examination)

US 2004194468 A1 20041007 - RYAN WILLIAM RICHARD [US], et al

Citation (opposition)

Opponent : Siemens Aktiengesellschaft

- US 2004194468 A1 20041007 - RYAN WILLIAM RICHARD [US], et al
- US 2002107625 A1 20020808 - BECK FOLKER [US], et al
- US 6535124 B1 20030318 - DITOMMASO ANTHONY M [US], et al
- US 4083234 A 19780411 - AONO SHIGEO, et al

Cited by

DE102020200118A1; RU2618774C1; EP2239505A1; CN102713438A; CH705179A1; EP2538139A3; US9249979B2; WO2010115921A3; EP2520863A1; US9068512B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1688671 A1 20060809; **EP 1688671 B1 20151209**; **EP 1688671 B2 20190109**; US 2006266045 A1 20061130; US 7751943 B2 20100706

DOCDB simple family (application)

EP 06101128 A 20060201; US 27585806 A 20060201