

Title (en)

FLUID INJECTION IN A GAS TURBINE DURING A COOLING DOWN PERIOD

Title (de)

FLÜSSIGKEITSEINSPRITZUNG IN EINER GASTURBINE WÄHREND EINER ABKÜHLPHASE

Title (fr)

INJECTION DE FLUIDE DANS UNE TURBINE LORS D'UNE PÉRIODE DE REFROIDISSEMENT

Publication

EP 1784557 B1 20080319 (DE)

Application

EP 05777877 A 20050812

Priority

- EP 2005053969 W 20050812
- EP 04020155 A 20040825
- EP 05777877 A 20050812

Abstract (en)

[origin: EP1630356A1] The method involves driving a rotor intermittently, during a cooling phase at a reduced nominal rotation speed. A liquid e.g. distilled water, is brought into an air stream, which is flowed through a circular flow channel of a gas turbine, where the turbine exhibits a compressor, turbine unit and an annular combustion chamber. Blade profiles of guide vanes and rotor blades extend radially in the circular flow channel.

IPC 8 full level

F01D 25/00 (2006.01); **F02K 99/00** (2009.01); **F01D 25/34** (2006.01)

CPC (source: EP US)

F01D 25/002 (2013.01 - EP US); **F01D 25/34** (2013.01 - EP US); **F04D 29/705** (2013.01 - EP); **F05D 2260/212** (2013.01 - EP US)

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 1630356 A1 20060301; AT E389785 T1 20080415; DE 502005003367 D1 20080430; EP 1784557 A1 20070516; EP 1784557 B1 20080319; ES 2304709 T3 20081016; PT 1784557 E 20080627; US 2007251210 A1 20071101; US 7752847 B2 20100713; WO 2006021520 A1 20060302

DOCDB simple family (application)

EP 04020155 A 20040825; AT 05777877 T 20050812; DE 502005003367 T 20050812; EP 05777877 A 20050812; EP 2005053969 W 20050812; ES 05777877 T 20050812; PT 05777877 T 20050812; US 66063905 A 20050812