

Title (en)

Cooled gas turbine stator vane and method of operation of a gas turbine

Title (de)

Gekühlte Gasturbinenleitschaufel für eine Gasturbine, Verwendung einer Gasturbinenleitschaufel sowie Verfahren zum Betreiben einer Gasturbine

Title (fr)

Aube de turbine refroidie et méthode d'opération d'une turbine à gaz

Publication

**EP 1739285 A1 20070103 (DE)**

Application

**EP 05014377 A 20050701**

Priority

EP 05014377 A 20050701

Abstract (en)

A heating element (50) with heating coils is extended over the entire length of the hollow space (38) behind the leading edge (36) of a guide vane profile. The heating element also runs from inside to outside platforms (34a,34b) of the vane profile, and gradually preheats the vane especially at time of cold starting of the gas turbine. Independent claims are included for the following: (1) a use of a gas turbine guide vane; and (2) a method of operating a gas turbine.

IPC 8 full level

**F01D 25/10** (2006.01); **F01D 5/18** (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP US)

**F01D 5/18** (2013.01 - EP US); **F01D 9/041** (2013.01 - EP US); **F01D 25/10** (2013.01 - EP US); **F05D 2220/3212** (2013.01 - EP US); **F05D 2260/85** (2013.01 - EP US); **F05D 2270/114** (2013.01 - EP US)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 111 (P - 451) 25 April 1986 (1986-04-25)

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1739285 A1 20070103**; **EP 1739285 B1 20091021**; AT E446439 T1 20091115; DE 502005008377 D1 20091203; JP 2007009911 A 20070118; US 2007116563 A1 20070524; US 2009074572 A1 20090319; US 7465150 B2 20081216

DOCDB simple family (application)

**EP 05014377 A 20050701**; AT 05014377 T 20050701; DE 502005008377 T 20050701; JP 2006178356 A 20060628; US 26998908 A 20081113; US 47918306 A 20060630