

Title (en)

Turbine component, electrical system with such a turbine component, combustor, turbine and method for reducing the corrosion in a turbine component.

Title (de)

Turbinenkomponente, elektrisches System mit der Turbinenkomponente, Brenner, Turbine und Verfahren zur Verminderung von Korrosion bei einer Turbinenkomponente

Title (fr)

Composant d'une turbine, système électrique avec un tel composant, chambre de combustion, turbine et méthode pour réduire la corrosion dans un composant de turbine

Publication

EP 1722011 A1 20061115 (DE)

Application

EP 05010271 A 20050511

Priority

EP 05010271 A 20050511

Abstract (en)

A turbine component (3) includes a current conducting contact (9), allowing a cathodic current (7) to flow into the turbine component (which acts as cathode). Independent claims are included for: (1) an electric system including the turbine component, an anode (5) connected with the turbine component and an agent for producing a potential difference between the turbine component and the anode; (2) a gas turbine burner or a turbine including the turbine component or the electric system; and (3) a method for reducing corrosion in a turbine component, involving placing a cathodic turbine component in electrical contact with an anode and passing an electric current between the anode and the component.

IPC 8 full level

C23F 13/00 (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP)

F01D 25/007 (2013.01); **C23F 2201/00** (2013.01); **F05D 2260/95** (2013.01)

Citation (search report)

- [X] EP 0936287 A1 19990818 - ABB RESEARCH LTD [CH]
- [X] US 4713158 A 19871215 - LAMBERT MAURICE [FR] & STRENGTH OF MATERIALS USA, vol. 15, no. 12, December 1983 (1983-12-01), pages 1709 - 1711, ISSN: 0039-2316
- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10 17 November 2000 (2000-11-17)
- [X] DATABASE INSPEC [online] THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; December 1983 (1983-12-01), PROKOPENKO A V ET AL: "Influence of cathodic protection on the crack resistance in cyclic loading of 15Kh12N2VMF and 08Kh17N6T steels and VT3-1 alloy in sea salt solution", XP002348951, Database accession no. 2364365

Cited by

FR3072456A1

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1722011 A1 20061115

DOCDB simple family (application)

EP 05010271 A 20050511