

Title (en)

GAS TURBINE INSTALLATION WITH A CERAMIC-COVERED COMBUSTION CHAMBER HOUSING

Title (de)

GASTURBINENANLAGE MIT EINEM MIT KERAMIKSTEINEN AUSGEKLEIDETEN BRENNKAMMERGEHÄUSE

Title (fr)

INSTALLATION DE TURBINE A GAZ COMPORTANT UNE ENVELOPPE DE CHAMBRE A COMBUSTION A REVETEMENT DE BRIQUES DE CERAMIQUE

Publication

EP 0960308 B1 20011205 (DE)

Application

EP 98909340 A 19980129

Priority

- DE 9800324 W 19980129
- DE 19704976 A 19970129

Abstract (en)

[origin: DE19704976A1] The invention relates to a gas turbine installation whose combustion chamber housing (7) located between the compressor and the turbine is fitted with solid ceramic material (10) and whose rotor (2) and covering housing sections (1) are provided with blades (3, 4, 5, 6). On the side of the turbine, at least the first rows of blades (3, 5) support ceramic heat-insulating layers. According to the invention, the ceramic material (10) is provided on its surface with a coating (12, 13) which prevents the ceramic surfaces from being "sanded down" thereby avoiding the related destruction of the heat insulating layers.

IPC 1-7

F23R 3/00; C23C 4/00

IPC 8 full level

C23C 4/00 (2006.01); **C23C 28/00** (2006.01); **F01D 5/28** (2006.01); **F02C 7/00** (2006.01); **F02C 7/24** (2006.01); **F23R 3/00** (2006.01); **F23R 3/42** (2006.01)

CPC (source: EP)

F01D 5/288 (2013.01); **F23R 3/007** (2013.01)

Cited by

EP2742289B1; WO2013021354A2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

DE 19704976 A1 19980730; DE 19704976 C2 19990225; DE 59802328 D1 20020117; EP 0960308 A1 19991201; EP 0960308 B1 20011205; JP 2001509874 A 20010724; JP 4294736 B2 20090715; RU 2178530 C2 20020120; UA 41485 C2 20010917; WO 9834068 A1 19980806

DOCDB simple family (application)

DE 19704976 A 19970129; DE 59802328 T 19980129; DE 9800324 W 19980129; EP 98909340 A 19980129; JP 53245998 A 19980129; RU 99118768 A 19980129; UA 99074363 A 19980129