

Title (en)
GAS TURBINE ROTOR WITH INTERNALLY-COOLED GAS TURBINE BLADE

Title (de)
GASTURBINENROTOR MIT INNENRAUMGEKÜHLTER GASTURBINENSCHAUFEL

Title (fr)
ROTOR DE TURBINE A GAZ DOTE D'UNE AUBE A REFROIDISSEMENT INTERNE

Publication
EP 1163427 B1 20031210 (DE)

Application
EP 00920496 A 20000313

Priority

- EP 00920496 A 20000313
- EP 0002209 W 20000313
- EP 99105683 A 19990319

Abstract (en)
[origin: WO0057031A1] The invention relates to a gas turbine rotor with an internally cooled gas turbine blade (1) which has a blade foot (2) and a blade platform (5), said blade platform having recesses (10) into which strip inserts (11) are introduced. The aim of the invention is to configure a gas turbine rotor of this type in such a way that the seal that is provided to prevent hot gas from entering and cold air from leaving and the fixing means of the gas turbine blade (1) can be produced simply and inexpensively while still being very reliable. To this end, the recess (10) extends as far as a plate-end base (13) of the blade platform (5) and the strip insert (11) has a positive fit on the plate (4) which prevents axial displacement in a direction of use (30) of the gas turbine blade (1).

IPC 1-7
F01D 11/00; **F01D 5/30**

IPC 8 full level
F01D 5/30 (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)
F01D 5/3015 (2013.01 - EP US); **F01D 11/006** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0057031 A1 20000928; DE 50004724 D1 20040122; EP 1163427 A1 20011219; EP 1163427 B1 20031210; JP 2003526039 A 20030902; US 6561764 B1 20030513

DOCDB simple family (application)
EP 0002209 W 20000313; DE 50004724 T 20000313; EP 00920496 A 20000313; JP 2000606876 A 20000313; US 93699001 A 20010919