

Title (en)

Turbine blade with shroud portions

Title (de)

Turbinenschaufel mit Deckbandteile

Title (fr)

Aube de turbine ayant des portions de bande de renforcement

Publication

**EP 1840333 A1 20071003 (EN)**

Application

**EP 06112086 A 20060331**

Priority

EP 06112086 A 20060331

Abstract (en)

Rotating turbine blades in a blade row for a gas turbine have shrouds with shroud portions (8 ss , 8 ps , 8' ss , 8' ps ) having different bending moments. The shroud portions with the smaller bending moment (8 ss ) have edges with radially outer parts (12) that protrudes in circumferential direction over radially inner parts (13) of the shroud portion (8' ps ) of the adjacent blade that has a greater bending moment. The protruding shroud edge limits creep deformation of the shroud portion with the greater bending moment. The measure thus limits hot gas ingestion and prolongs turbine blade lifetime.

IPC 8 full level

**F01D 5/22** (2006.01)

CPC (source: EP)

**F01D 5/225** (2013.01)

Citation (applicant)

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- JP H07233703 A 19950905 - MITSUBISHI HEAVY IND LTD
- EP 0928880 A1 19990714 - MITSUBISHI HEAVY IND LTD [JP]

Citation (search report)

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- [Y] US 5511948 A 19960430 - SUZUKI ATSUHIDE [JP], et al
- [YD] DE 102004025321 A1 20051208 - ALSTOM TECHNOLOGY LTD BADEN [CH]
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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 1840333 A1 20071003**

DOCDB simple family (application)

**EP 06112086 A 20060331**