

Title (en)

Modular vane/blade for a gas turbine and gas turbine with such a vane/blade

Title (de)

Modulare Schaufel für eine Gasturbine und Gasturbine mit der Schaufel

Title (fr)

Aube/pale modulaire pour turbine à gaz et turbine à gaz avec une telle aube/pale

Publication

**EP 2685047 A1 20140115 (EN)**

Application

**EP 12176275 A 20120713**

Priority

EP 12176275 A 20120713

Abstract (en)

A modular vane/blade (20b) for a gas turbine comprises a basic element (18a) made of a first material, which is provided with at least one insert/inlay (21 b) made of a second material, which is integrally joined with said basic element (18a) and has at least one runout (23a-c). An improved mechanical stability and integrity by placing said at least one runout (23a-c) in a region of low mechanical stress within said vane/blade (20b).

IPC 8 full level

**F01D 5/14** (2006.01)

CPC (source: EP)

**F01D 5/147** (2013.01); **F05D 2230/51** (2013.01)

Citation (applicant)

- US 5348446 A 19940920 - LEE CHING-PANG [US], et al
- WO 2011058043 A1 20110519 - SIEMENS AG [DE], et al
- US 2010012450 A1 20100121 - JI YOUNG CHUN [KR], et al
- EP 2189626 A1 20100526 - ALSTOM TECHNOLOGY LTD [CH]
- US 5797725 A 19980825 - RHODES JEFFREY F [US]
- US 2010143139 A1 20100610 - PANDEY VIDHU SHEKHAR [US], et al

Citation (search report)

- [XY] US 4650399 A 19870317 - CRAIG HAROLD M [US], et al
- [X] US 2006228211 A1 20061012 - VANCE STEVEN J [US], et al
- [X] US 2010080687 A1 20100401 - VANCE STEVEN J [US]
- [XD] EP 2189626 A1 20100526 - ALSTOM TECHNOLOGY LTD [CH]
- [Y] EP 2362067 A2 20110831 - UNITED TECHNOLOGIES CORP [US]

Cited by

US10801340B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2685047 A1 20140115**

DOCDB simple family (application)

**EP 12176275 A 20120713**