

Title (en)
Armoured engine component and gas turbine

Title (de)
Gepanzerte Maschinenkomponente und Gasturbine

Title (fr)
Composant blindé d'un moteur et turbine à gaz

Publication
EP 1865258 A1 20071212 (DE)

Application
EP 06011629 A 20060606

Priority
EP 06011629 A 20060606

Abstract (en)
The machine component useful in gas turbine for driving a generator or work machine, comprises a base body (40), which is made of a base material and is provided with a plating (42) from a plating material with larger hardness compared to the base material. The plating is segmentally implemented and is formed by plating segments (44), which are applied on the base body by build-up welding and are brought into assigned recesses in the base body. The outside surface of the plating segments and an outside surface of a stage (46) running between the plating segments form a constant surface. An independent claim is included for a gas turbine with a number of machine components.

Abstract (de)
Die Erfindung betrifft eine Maschinenkomponente mit einem aus einem Grundmaterial gefertigten Grundkörper (40), der in einem Teilbereich seiner Oberfläche mit einer Panzerung (42) aus einem Auftragsmaterial mit einer im Vergleich zum Grundmaterial größeren Härte versehen ist, wobei die Panzerung (42) segmentiert ausgeführt und von einer Anzahl von Panzerungssegmenten (44) gebildet ist.

IPC 8 full level
F23R 3/00 (2006.01); **C23C 30/00** (2006.01); **F01D 5/20** (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP US)
C23C 30/00 (2013.01 - EP US); **F23R 3/002** (2013.01 - EP US); **F23R 3/005** (2013.01 - EP US); **F23M 2900/05001** (2013.01 - EP US)

Citation (search report)

- [XY] GB 2061397 A 19810513 - GEN ELECTRIC
- [X] EP 1283278 A2 20030212 - SIEMENS WESTINGHOUSE POWER [US]
- [X] EP 0181255 A1 19860514 - SNECMA [FR]
- [Y] DE 102004001722 A1 20050804 - MTU AERO ENGINES GMBH [DE]
- [A] DE 10326541 A1 20050105 - MTU AERO ENGINES GMBH [DE]
- [A] GB 1450894 A 19760929 - LUCAS INDUSTRIES LTD

Cited by
EP2068082A1; US9702561B2; WO2009071395A1

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 1865258 A1 20071212; AT E451581 T1 20091215; CN 101473171 A 20090701; CN 101473171 B 20110406; DE 502007002275 D1 20100121; EP 2024684 A1 20090218; EP 2024684 B1 20091209; RU 2008152379 A 20100720; RU 2451241 C2 20120520; US 2009180873 A1 20090716; US 8091366 B2 20120110; WO 2007141091 A1 20071213

DOCDB simple family (application)
EP 06011629 A 20060606; AT 07728485 T 20070425; CN 200780021246 A 20070425; DE 502007002275 T 20070425; EP 07728485 A 20070425; EP 2007054029 W 20070425; RU 2008152379 A 20070425; US 22791207 A 20070425