

Title (en)

Method for formation of an aluminium diffusion layer form oxidation protection

Title (de)

Verfahren zur Ausbildung einer Aluminium-Diffusionsschicht zum Oxidationsschutz

Title (fr)

Procédé destiné au développement d'une couche de diffusion en aluminium en une protection contre l'oxydation

Publication

EP 1959026 B1 20130605 (DE)

Application

EP 08101026 A 20080129

Priority

DE 102007008011 A 20070215

Abstract (en)

[origin: EP1959026A2] Production of an aluminum diffusion layer used as oxidation protection on metallic components of gas turbines comprises galvanically coating the component with pure aluminum in an organic electrolyte free from water and oxygen, removing the coating and heat-treating in a protective gas atmosphere or in a vacuum at a prescribed high temperature and time regime so that the aluminum diffuses into the component and the alloying components diffuse into the aluminum layer in opposing direction.

IPC 8 full level

C23C 10/04 (2006.01); **C23C 10/18** (2006.01); **C23C 10/24** (2006.01); **C23C 10/60** (2006.01)

CPC (source: EP US)

C23C 10/04 (2013.01 - EP US); **C23C 10/18** (2013.01 - EP US); **C23C 10/24** (2013.01 - EP US); **C23C 10/60** (2013.01 - EP US)

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DE FR GB

DOCDB simple family (publication)

EP 1959026 A2 20080820; **EP 1959026 A3 20090506**; **EP 1959026 B1 20130605**; DE 102007008011 A1 20080821;
US 2008272004 A1 20081106

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