

Title (en)
HIGH TEMPERATURE CORROSION PROTECTIVE COATING AND METHOD THEREFORE

Title (de)
HOCHTEMPERATURKORROSIONSSCHUTZSCHICHT UND VERFAHREN ZUR HERSTELLUNG

Title (fr)
COUCHE DE PROTECTION CONTRE LA CORROSION À HAUTE TEMPÉRATURE ET PROCÉDÉ DE FABRICATION

Publication
EP 2352856 A1 20110810 (DE)

Application
EP 09760703 A 20091024

Priority
• DE 2009001497 W 20091024
• DE 102008053540 A 20081028

Abstract (en)
[origin: CA2741957A1] The invention relates to a method for producing a high-temperature protective layer containing metal on a metal high-temperature material (5). According to said method, the metal is deposited on the high-temperature material via a gaseous phase to form the high-temperature protective layer, the high-temperature material being held at a diffusion temperature for a specific length of time, allowing at least part of the deposited metal to diffuse into the high-temperature material and form a diffusion zone. The high-temperature material is not in contact with solids or liquids in the region of the surface to be coated, but merely forms a solid/gas interface. The invention also relates to a component consisting of a high-temperature material with a hot-gas anti-corrosive layer containing chrome, said component having an overlay layer (20) containing chrome on the surface of said high-temperature material, a diffusion layer (22) in the high-temperature material and a build-up zone (21) between the overlay layer and the diffusion layer, the chrome content of said zone being between that of the diffusion layer and the overlay layer.

IPC 8 full level
C23C 10/06 (2006.01); **C23C 10/10** (2006.01); **C23C 10/12** (2006.01)

CPC (source: EP)
C23C 10/06 (2013.01); **C23C 10/10** (2013.01); **C23C 10/12** (2013.01)

Citation (search report)
See references of WO 2010048932A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102008053540 A1 20100429; CA 2741957 A1 20100506; EP 2352856 A1 20110810; EP 2352856 B1 20180627;
WO 2010048932 A1 20100506

DOCDB simple family (application)
DE 102008053540 A 20081028; CA 2741957 A 20091024; DE 2009001497 W 20091024; EP 09760703 A 20091024