

Title (en)

ALLOY, PROTECTIVE LAYER FOR PROTECTING A COMPONENT AGAINST CORROSION AND OXIDATION AT HIGH TEMPERATURES AND COMPONENT

Title (de)

LEGIERUNG, SCHUTZSCHICHT ZUM SCHUTZ EINES BAUTEILS GEGEN KORROSION UND OXIDATION BEI HOHEN TEMPERATUREN UND BAUTEIL

Title (fr)

ALLIAGE, COUCHE DE PROTECTION DESTINEE A PROTEGER UN COMPOSANT CONTRE LA CORROSION ET L'OXYDATION A HAUTE TEMPERATURE, ET COMPOSANT

Publication

EP 1834004 A1 20070919 (DE)

Application

EP 06830208 A 20061130

Priority

- EP 2006069104 W 20061130
- EP 05026378 A 20051202
- EP 06830208 A 20061130

Abstract (en)

[origin: EP1793008A1] The alloy composition, expressed in wt%, is as follows. Nickel 27-31, chromium 23-29, aluminum 7-11, SE 0.5-0.7, silicon 0.6-0.8, zirconium 0.5-0.7 and cobalt to 100%; where SE is yttrium and/or at least one metal selected from scandium and the rare earth elements. A variety of variant compositions based on the foregoing are included. In addition to this protective alloy layer (7), an additional thermal insulation layer (10) is applied. A substrate (4) of the component is nickel- and/or cobalt based.

IPC 8 full level

C22C 19/07 (2006.01)

CPC (source: EP KR US)

B32B 15/01 (2013.01 - EP US); **C22C 19/03** (2013.01 - KR); **C22C 19/05** (2013.01 - KR); **C22C 19/07** (2013.01 - EP US); **C23C 28/321** (2013.01 - EP US); **C23C 28/3215** (2013.01 - EP US); **C23C 28/345** (2013.01 - EP US); **C23C 28/3455** (2013.01 - EP US); **Y02T 50/60** (2013.01 - US)

Citation (search report)

See references of WO 2007063091A1

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 1793008 A1 20070606; CN 101133173 A 20080227; EP 1834004 A1 20070919; KR 20070099675 A 20071009; US 2009155120 A1 20090618; WO 2007063091 A1 20070607

DOCDB simple family (application)

EP 05026378 A 20051202; CN 200680006735 A 20061130; EP 06830208 A 20061130; EP 2006069104 W 20061130; KR 20077019927 A 20070831; US 8570106 A 20061130