

Title (en)

PROTECTION OF CHROMIUM-STEEL SUBSTRATES AGAINST CORROSIVE AND EROSIVE ATTACK AT TEMPERATURES UP TO ABOUT 500 DEGREES CELSIUS

Title (de)

SCHUTZ GEGEN KORROSIVE UND EROSIVE ANGRIFFE BEI TEMPERATUREN BIS ETWA 500 GRAD CELSIUS FÜR EIN AUS CHROMSTAHL BESTEHENDES SUBSTRAT

Title (fr)

PROTECTION DE SUBSTRATS EN ACIER AU CHROME CONTRE LA CORROSION ET L'EROSION EN PRESENCE DE TEMPERATURES POUVANT ALLER JUSQU'A ENVIRON 500 DEGRES CELSIUS

Publication

EP 0663964 B1 19961227 (DE)

Application

EP 93920767 A 19930917

Priority

- EP 93920767 A 19930917
- EP 9302534 W 19930917
- EP 92116998 A 19921005

Abstract (en)

[origin: WO9408071A1] The invention concerns a method of protecting chromium-steel substrates against corrosion and erosion at temperatures up to about 500 C. A protective layer containing aluminium is formed on the substrate. The invention calls for this to be done by first depositing a metallic layer containing aluminium and then hardening or annealing at least the surface of the protective layer. The invention enables highly effective protection to be provided, using simple techniques, against corrosion and erosion, particularly for turbine blades, and in particular turbocompressor blades.

IPC 1-7

C25D 3/44

IPC 8 full level

C25D 3/44 (2006.01); **C25D 3/56** (2006.01); **C25D 5/26** (2006.01); **C25D 5/50** (2006.01); **C25D 11/04** (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP KR US)

C25D 3/44 (2013.01 - KR); **F01D 5/288** (2013.01 - EP US); **Y10T 428/12757** (2015.01 - EP US)

Citation (examination)

GB 716554 A 19541006 - WILLIAM JOHN CAMPBELL

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

WO 9408071 A1 19940414; CZ 77395 A3 19951213; DE 59304920 D1 19970206; EP 0663964 A1 19950726; EP 0663964 B1 19961227; ES 2096943 T3 19970316; JP H08501831 A 19960227; KR 950703669 A 19950920; RU 95110753 A 19970127; US 5547769 A 19960820

DOCDB simple family (application)

EP 9302534 W 19930917; CZ 77395 A 19930917; DE 59304920 T 19930917; EP 93920767 A 19930917; ES 93920767 T 19930917; JP 50864394 A 19930917; KR 19950701281 A 19950404; RU 95110753 A 19921005; US 41700695 A 19950405