

Title (en)

PROTECTION OF CHROMIUM-STEEL SUBSTRATES AGAINST CORROSIVE AND EROSIVE ATTACK AT TEMPERATURES UP TO ABOUT 500 °C.

Title (de)

SCHUTZ GEGEN KORROSIVE UND EROSIVE ANGRIFFE BEI TEMPERATUREN BIS ETWA 500 °C 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'À ENVIRON 500 °C.

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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.

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