Title (en)

HIGH-TEMPERATURE-RESISTANT COATING

Publication

EP 0241807 A3 19880224 (DE)

Application

EP 87104785 A 19870401

Priority

DE 3612568 A 19860415

Abstract (en)

[origin: EP0241807A2] The high-temperature-resistant protective coating is formed by an alloy based on nickel, cobalt, chromium, aluminium and generally also yttrium. The object of the invention is to improve the adhesive strength of the metal oxide top layer forming the protective coating and to increase the oxidation and corrosion resistance. According to the invention, silicon is added to the alloy as a first additive. The amount of the silicon added to the alloy is between 1 and 3% by weight. The oxidation and corrosion resistance can be increased by a further addition of zirconium in an amount of 1% by weight. The same result can also be achieved by a further addition of tantalum, also in an amount of 1% by weight.

IPC 1-7

C23C 30/00; C22C 19/05

IPC 8 full level

C22C 19/05 (2006.01); **C23C 4/06** (2016.01); **C23C 30/00** (2006.01)

CPC (source: EP US)

C23C 30/00 (2013.01 - EP US); Y10T 428/12937 (2015.01 - EP US); Y10T 428/12944 (2015.01 - EP US)

Citation (search report)

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DOCDB simple family (publication)

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