

Title (en)
HIGH-TEMPERATURE-RESISTANT COATING

Publication
EP 0241807 B1 19910724 (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
C22C 19/05; C23C 30/00

IPC 8 full level
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C23C 30/00 (2013.01 - EP US); **Y10T 428/12937** (2015.01 - EP US); **Y10T 428/12944** (2015.01 - EP US)

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EP 0134821 A1 19850327 - BBC BROWN BOVERI & CIE [CH]

Cited by
DE102013209189A1; DE3842300A1; CN102717553A; DE3842301A1; EP0318803A1; CN102719825A; US2014220379A1; US11092034B2; WO2022096212A1

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