

Title (en)

CHROMIUM-FREE METALLIC COATING, METHOD OF FORMING THEREOF AND COMPOSITE WIRE

Title (de)

CHROMFREIE METALLISCHE BESCHICHTUNG, VERFAHREN ZU DEREN HERSTELLUNG UND VERBUNDDRAHT

Title (fr)

REVÊTEMENT SANS CHROME, PROCÉDÉ DE SA PRODUCTION ET CÂBLE COMPOSITE

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Application

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Abstract (en)

[origin: WO2010110873A1] A chrome-free mixture or alloy, preferably a composite wire is disclosed for producing a wear resistant and corrosion resistant coating on a substrate, for example by thermal spraying techniques. The physical properties of the coating are particularly suited for high-temperature erosion-corrosion environments. The resultant coating exhibits good hardness, toughness, and bonding characteristics. The composite wire comprises a metallic outer sheath and an inner core and produces a chrome-free coating comprising, in bulk on a weight basis, 60 to 90% of a base metal including at least 2% aluminum and/or silicon, 2 to 10% titanium, 2 to 10% silicon, and 2 to 10% boron.

IPC 8 full level

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