

Title (en)
CHROME-FREE COATING FOR SUBSTRATE

Title (de)
CHROMFREIE BESCHICHTUNG FÜR EIN SUBSTRAT

Title (fr)
REVÊTEMENT SANS CHROME POUR UN SUBSTRAT

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Application
EP 10756469 A 20100324

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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.

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