

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

Publication

EP 2414106 B1 20201230 (EN)

Application

EP 10756469 A 20100324

Priority

- US 2010000858 W 20100324
- US 21090309 P 20090324

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

C23C 4/12 (2016.01); **C23C 4/06** (2016.01); **C23C 4/067** (2016.01); **C23C 4/131** (2016.01); **C23C 30/00** (2006.01)

CPC (source: EP)

C23C 4/06 (2013.01); **C23C 4/067** (2016.01); **C23C 4/12** (2013.01); **C23C 4/131** (2016.01); **C23C 30/00** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010110873 A1 20100930; AU 2010229319 A1 20111013; AU 2010229319 B2 20150917; CA 2756033 A1 20100930; CA 2756033 C 20140128; CN 102387870 A 20120321; CN 102387870 B 20150520; EP 2414106 A1 20120208; EP 2414106 A4 20140514; EP 2414106 B1 20201230; JP 2012521496 A 20120913; JP 5275509 B2 20130828; KR 101548553 B1 20150901; KR 20120009422 A 20120201; MX 2011009089 A 20110927; PL 2414106 T3 20210531

DOCDB simple family (application)

US 2010000858 W 20100324; AU 2010229319 A 20100324; CA 2756033 A 20100324; CN 201080013473 A 20100324; EP 10756469 A 20100324; JP 2012501999 A 20100324; KR 20117018812 A 20100324; MX 2011009089 A 20100324; PL 10756469 T 20100324