

Title (en)
Edelstahllegierung ohne Nickel

Title (de)
Nickel-free stainless-steel alloy

Title (fr)
Alliage d'acier inoxydable sans nickel

Publication
EP 2728028 A1 20140507 (FR)

Application
EP 12191101 A 20121102

Priority
EP 12191101 A 20121102

Abstract (en)
Stainless steel alloy on a base comprises nickel, chromium, a filler metal consisting of copper, ruthenium, rhodium, palladium, rhenium, osmium, iridium, platinum and gold, copper, gold, carbon, molybdenum, manganese, silicon, nitrogen, tungsten, vanadium, niobium, zirconium, titanium, and remaining amount of iron and unavoidable impurities. The stainless steel alloy is arranged as a cubic austenitic structure with centered surfaces. Stainless steel alloy on a base comprises 0.5 wt.% of nickel, 16-20 wt.% of chromium, 30-40 wt.% of a filler metal consisting of copper, ruthenium, rhodium, palladium, rhenium, osmium, iridium, platinum and gold, 0-2 wt.% of copper, 0-2 wt.% of gold, 0-0.03 wt.% of carbon, 0-2 wt.% of molybdenum, 0-2 wt.% of manganese, 0-1 wt.% of silicon, 0-0.1 wt.% of nitrogen, 0-0.5 wt.% of tungsten, 0-0.5 wt.% of vanadium, 0-0.5 wt.% of niobium, 0-0.5 wt.% of zirconium, 0-0.5 wt.% of titanium, and remaining amount of iron and unavoidable impurities. The stainless steel alloy is arranged as a cubic austenitic structure with centered surfaces.

Abstract (fr)
Alliage d'acier inoxydable comportant une base constituée de fer et de de chrome. Il comporte moins de 0,5% en masse de nickel, et est arrangé selon une structure austénitique cubique à faces centrées, et comporte, en complément de ladite base, au moins un métal d'apport choisi parmi un premier ensemble comportant le cuivre, le ruthénium, le rhodium, le palladium, le rhénium, l'osmium, l'iridium, le platine, et l'or.

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/18** (2006.01)

CPC (source: EP RU US)
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Citation (applicant)
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• EP 0629714 B1 20000412 - UGINE SAVOIE IMPHY [FR]
• FR 2534931 A1 19840427 - CABOT CORP [US]
• EP 1025273 B1 20011205 - METALLURG AVANCEE S I M A BR S [FR]

Citation (search report)
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• [XDA] EP 1025273 B1 20011205 - METALLURG AVANCEE S I M A BR S [FR]
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• [XAI] US 3904401 A 19750909 - MERTZ DAVID L, et al
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Designated contracting state (EPC)
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Designated extension state (EPC)
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