

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  
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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]  
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Citation (search report)  
• [XA] EP 1783240 A1 20070509 - DAIDO STEEL CO LTD [JP]  
• [XDA] EP 1025273 B1 20011205 - METALLURG AVANCEE S I M A BR S [FR]  
• [XA] EP 1626101 A1 20060215 - DAIDO STEEL CO LTD [JP]  
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• [XAI] US 3904401 A 19750909 - MERTZ DAVID L, et al  
• [A] CH 688862 A5 19980430 - BASF AG [DE]  
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Designated contracting state (EPC)  
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**EP 2728028 A1 20140507**; **EP 2728028 B1 20180404**; CN 104769145 A 20150708; CN 104769145 B 20161019; EP 2914759 A1 20150909; EP 2914759 B1 20161005; HK 1211992 A1 20160603; JP 2015535888 A 20151217; JP 5976945 B2 20160824; RU 2015120760 A 20161227; RU 2625363 C2 20170713; TW 201432064 A 20140816; TW I586816 B 20170611; US 2015225820 A1 20150813; WO 2014067795 A1 20140508

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**EP 12191101 A 20121102**; CN 201380057112 A 20131017; EP 13785379 A 20131017; EP 2013071770 W 20131017; HK 15112788 A 20151229; JP 2015533640 A 20131017; RU 2015120760 A 20131017; TW 102138458 A 20131024; US 201314425455 A 20131017