

Title (en)  
Edelstahllegierung ohne Nickel

Title (de)  
Nickel-free stainless-steel alloy

Title (fr)  
Alliage d'acier inoxydable sans nickel

Publication  
**EP 2728028 B1 20180404 (FR)**

Application  
**EP 12191101 A 20121102**

Priority  
EP 12191101 A 20121102

Abstract (en)  
[origin: EP2728028A1] 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.

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 30/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/18** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/38** (2006.01); **G04B 37/22** (2006.01)

CPC (source: EP RU US)  
**C22C 30/00** (2013.01 - EP US); **C22C 30/02** (2013.01 - US); **C22C 38/001** (2013.01 - US); **C22C 38/002** (2013.01 - EP US); **C22C 38/004** (2013.01 - US); **C22C 38/005** (2013.01 - US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/18** (2013.01 - EP RU US); **C22C 38/20** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/38** (2013.01 - US); **G04B 37/22** (2013.01 - EP US); **G04G 17/02** (2013.01 - US); **G04G 17/08** (2013.01 - US)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**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

DOCDB simple family (application)  
**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