

Title (en)
GREY GOLD ALLOY WITH NO NICKEL AND NO COPPER

Title (de)
GRAUGOLDLEGIERUNG OHNE NICKEL UND OHNE KUPFER

Title (fr)
ALLIAGE D'OR GRIS SANS NICKEL ET SANS CUIVRE

Publication
EP 2427582 B1 20140312 (FR)

Application
EP 10716257 A 20100415

Priority
• CH 2010000101 W 20100415
• EP 09405077 A 20090506
• EP 10716257 A 20100415

Abstract (en)
[origin: EP2251444A1] White gold alloy free of nickel and copper, comprises (in mass%): gold (greater than 75); palladium (18-24); at least one element (1-6) comprising manganese, hafnium, niobium, platinum, tantalum, vanadium, zinc, and zirconium; optionally at least one element (greater than 0.5) comprising silicon, gallium, and titanium; and optionally at least one element (greater than 0.2) comprising ruthenium, iridium, and rhenium. An independent claim is included for preparing the alloy, comprising placing the components of the white gold alloy in a crucible; heating the crucible to melt the components; pouring the molten alloy; allowing to harden; subjecting to water quenching; subjecting to at least one cold rolling; and annealing under reducing atmosphere.

IPC 8 full level
C22C 5/02 (2006.01); **C22F 1/14** (2006.01)

CPC (source: EP US)
C22C 5/02 (2013.01 - EP US); **C22F 1/14** (2013.01 - EP US)

Cited by
EP3339455A1; WO2016151228A1; US10364481B2

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