

Title (en)

WHITE-COLORED COPPER ALLOY WITH REDUCED NICKEL CONTENT

Title (de)

WEISSFARBENE KUPFERLEGIERUNG MIT VERMINDERTEM NICKELGEHALT

Title (fr)

ALLIAGE DE CUIVRE DE COULEUR BLANCHE AVEC UNE TENEUR EN NICKEL RÉDUITE

Publication

EP 2384372 A2 20111109 (EN)

Application

EP 09813496 A 20090908

Priority

- US 2009056201 W 20090908
- US 9573308 P 20080910
- US 9571908 P 20080910
- US 10627508 P 20081017

Abstract (en)

[origin: WO2010030597A2] Disclosed is a white-colored copper alloy comprising by weight up to 30% zinc, up to 20% manganese, up to 5% nickel with the balance copper. This alloy may have from 6% to 25% zinc, from 4% to 17% manganese, from 0.1% to 3.5% nickel and the balance copper. The balance copper in the alloy may further contain at least one of: up to 0.5% of at least one of the group which consists of Sn, Si, Co, Ti, Cr, Fe, Mg, Zr, and Ag; and up to 0.1% of at least one of the group which consists of P, B, Ca, Ge, Se, Te. It may also contain up to 0.3% Zr by weight. The alloy may have an electrical conductivity greater than 2.5% IACS at eddy current gauge exciting frequencies between 60 kHz and 480 kHz.

IPC 8 full level

C22C 9/04 (2006.01); **C22C 9/05** (2006.01)

CPC (source: EP KR)

C22C 9/00 (2013.01 - KR); **C22C 9/04** (2013.01 - EP KR); **C22C 9/05** (2013.01 - EP KR)

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 2010030597 A2 20100318; WO 2010030597 A3 20100701; AU 2009291971 A1 20100318; AU 2016203972 A1 20160707; AU 2018204756 A1 20180719; CA 2736881 A1 20100318; CN 102149834 A 20110810; CN 102149834 B 20130612; EP 2384372 A2 20111109; EP 2384372 A4 20131120; JP 2012502189 A 20120126; JP 2015221943 A 20151210; JP 2017197847 A 20171102; JP 6170099 B2 20170726; KR 101859435 B1 20180521; KR 101859438 B1 20180521; KR 20110053998 A 20110524; KR 20170020553 A 20170222; KR 20170020554 A 20170222; MX 2011002500 A 20110407

DOCDB simple family (application)

US 2009056201 W 20090908; AU 2009291971 A 20090908; AU 2016203972 A 20160614; AU 2018204756 A 20180629; CA 2736881 A 20090908; CN 200980134815 A 20090908; EP 09813496 A 20090908; JP 2011526932 A 20090908; JP 2015134430 A 20150703; JP 2017127282 A 20170629; KR 20117005536 A 20090908; KR 20177004135 A 20090908; KR 20177004136 A 20090908; MX 2011002500 A 20090908