

Title (en)  
COPPER/ZINC/SILICON ALLOY, USE AND PRODUCTION THEREOF

Title (de)  
KUPFER-ZINK-SILIZIUM-LEGIERUNG, DEREN VERWENDUNG UND DEREN HERSTELLUNG

Title (fr)  
ALLIAGE CUIVRE-ZINC-SILICIUM, SON UTILISATION ET SA PRODUCTION

Publication  
**EP 1812612 B1 20100505 (DE)**

Application  
**EP 05747601 A 20050513**

Priority  
• EP 2005005238 W 20050513  
• DE 102004049468 A 20041011

Abstract (en)  
[origin: US2006078458A1] A Cu-Zn-Si alloy includes, in % by weight, 70 to 80% of copper, 1 to 5% of silicon, 0.0001 to 0.5% of boron, up to 0.2% of phosphorus and/or up to 0.2% of arsenic, a remainder of zinc, plus inevitable impurities. Products using the alloy and processes for producing the alloy are also provided. The alloy is distinguished by an improved resistance to oxidation and by uniform mechanical properties.

IPC 8 full level  
**C22C 9/04** (2006.01)

CPC (source: EP KR US)  
**C22C 9/04** (2013.01 - EP KR US); **C22C 9/10** (2013.01 - KR)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2006078458 A1 20060413**; AT E466965 T1 20100515; BR PI0516067 A 20080819; BR PI0516067 B1 20141014; CA 2582972 A1 20060420; CA 2582972 C 20140204; CN 100510132 C 20090708; CN 101023191 A 20070822; DE 502005009545 D1 20100617; EP 1812612 A1 20070801; EP 1812612 B1 20100505; ES 2343532 T3 20100803; JP 2008516081 A 20080515; JP 5148279 B2 20130220; KR 101010906 B1 20110125; KR 20070060100 A 20070612; MY 145376 A 20120131; PL 1812612 T3 20101029; PT 1812612 E 20100628; TW 200611985 A 20060416; TW I369405 B 20120801; US 2009280026 A1 20091112; WO 2006039951 A1 20060420

DOCDB simple family (application)  
**US 24754405 A 20051011**; AT 05747601 T 20050513; BR PI0516067 A 20050513; CA 2582972 A 20050513; CN 200580031766 A 20050513; DE 502005009545 T 20050513; EP 05747601 A 20050513; EP 2005005238 W 20050513; ES 05747601 T 20050513; JP 2007535030 A 20050513; KR 20077007251 A 20050513; MY PI20052420 A 20050527; PL 05747601 T 20050513; PT 05747601 T 20050513; TW 94117687 A 20050530; US 47761209 A 20090603