

Title (en)  
BRONZE LOW-LEAD ALLOY

Title (de)  
BRONZELEGIERUNG MIT GERINGEM BLEIANTEIL

Title (fr)  
ALLIAGE DE BRONZE A TETE BASSE

Publication  
**EP 1921173 A4 20120808 (EN)**

Application  
**EP 06797104 A 20060830**

Priority  

- JP 2006317132 W 20060830
- JP 2005249624 A 20050830

Abstract (en)  
[origin: EP1921173A1] The object of the present invention is to provide a bronze-based alloy of low lead content, first improved in tensile strength at high temperatures, secondly contributing to the promotion of the environmental conservation including recycling, while avoiding the adverse effect of lead on human bodies by means of reduction of a lead content, and excellent from the standpoints of mass-productivity and manufacturing cost. The alloy includes 2.0 to 6.0 mass % of Sn, 3.0 to 10.0 mass % of Zn, 0.1 to 3.0 mass % of Bi, 0.1 mass % < P # 0.6 mass % and the remainder of Cu and unavoidable impurities to improve the tensile strength thereof at high temperatures.

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

CPC (source: EP KR US)  
**C22C 9/02** (2013.01 - EP US); **C22C 9/04** (2013.01 - EP KR US)

Citation (search report)  

- [XYI] WO 9404712 A1 19940303 - NIELSEN THOMAS D [US]
- [XYI] US 6419766 B1 20020716 - IKEMIYA YUKINORI [JP], et al
- [XYI] US 5942056 A 19990824 - SINGH AKHILESHWAR R [US]
- See references of WO 2007026780A1

Designated contracting state (EPC)  
DE ES GB IT

DOCDB simple family (publication)  
**EP 1921173 A1 20080514; EP 1921173 A4 20120808; BR PI0612956 A2 20110315; CA 2603811 A1 20070308; CA 2603811 C 20110823; CN 101166839 A 20080423; CN 101166839 B 20110518; JP WO2007026780 A1 20090326; KR 100976741 B1 20100819; KR 20070119039 A 20071218; US 2009220375 A1 20090903; WO 2007026780 A1 20070308**

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**EP 06797104 A 20060830; BR PI0612956 A 20060830; CA 2603811 A 20060830; CN 200680014456 A 20060830; JP 2006317132 W 20060830; JP 2007533306 A 20060830; KR 20077023869 A 20060830; US 91999706 A 20060830**