

Title (en)
HIGH-STRENGTH COPPER ALLOY

Title (de)
HOCHFESTE KUPFERLEGIERUNG

Title (fr)
ALLIAGE DE CUIVRE EXTREMEMENT RESISTANT

Publication
EP 1538229 A4 20050803 (EN)

Application
EP 03794057 A 20030408

Priority
• JP 0304470 W 20030408
• JP 2002263125 A 20020909

Abstract (en)
[origin: US2004234412A1] The present invention is a high strength copper alloy that is superior to mechanical properties, workability, corrosion resistance and economy. The present invention discloses high strength copper alloy characterized in that said copper alloy consists essentially of 4 to 19 mass percent of Zn, 0.5 to 2.5 mass percent of Si and the remaining mass percent of Cu, wherein said mass percent of Zn and said mass percent of Si satisfy the relationship $Zn-2.5.Si=0$ to 15 mass percent; mean grain size D of crystalline structure of said copper alloy distributes in $0.3\text{ }\mu\text{m} \leq D \leq 3.5\text{ }\mu\text{m}$; and 0.2% yield strength in recrystallization state of said copper alloy is higher than 250 N/mm².

IPC 1-7
C22C 9/04; **C22F 1/08**

IPC 8 full level
C22C 9/04 (2006.01); **C22F 1/08** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
• [A] EP 0949343 A1 19991013 - KOBE STEEL LTD [JP]
• See references of WO 2004022805A1

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