

Title (en)

Process for making and using a copper-tin-titanium alloy

Title (de)

Verfahren zur Herstellung und Verwendung von einer Kupfer-Zinn-Titan-Legierung

Title (fr)

Procédé pour la production et l'utilisation d'un alliage comprenant étain, titane et cuivre

Publication

EP 0926251 B1 20030402 (DE)

Application

EP 98123159 A 19981204

Priority

DE 19756815 A 19971219

Abstract (en)

[origin: EP0926251A1] A titanium-containing tin-bronze, of specific composition, is new. new copper-tin-titanium alloy has the composition (by wt.) 12-20% Sn, 0.002-1% Ti, balance Cu and impurities. ADDITIONALLY CLAIMED ARE: (i) a casting produced from the above alloy and exhibiting a segregated coarse phase content of less than 10 vol. , an undetectable content of segregated particles of greater than 50 microns cross-sectional size, a cold deformability of $\geq 20\%$ (w.r.t. cross-sectional change) and up to 10 vol. micro-segregation with a typical linear distribution of less than 20 microns width; and (ii) production of strip, wire, profile or tubular semifinished products of the above alloy by thin strip casting or spray compacting, followed by hot and/or cold working optionally with intermediate anneals.

IPC 1-7

C22C 9/02

IPC 8 full level

B22F 3/115 (2006.01); **C22C 1/04** (2006.01); **C22C 9/02** (2006.01)

CPC (source: EP US)

B22F 3/115 (2013.01 - EP US); **C22C 1/0425** (2013.01 - EP US); **C22C 9/02** (2013.01 - EP US)

Cited by

EP1980633A1; EP1637269A3; DE202007019373U1

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EP 0926251 A1 19990630; **EP 0926251 B1 20030402**; DE 19756815 A1 19990701; DE 19756815 C2 20030109; DE 59807730 D1 20030508; ES 2196465 T3 20031216; PT 926251 E 20030829; US 6136103 A 20001024

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