

Title (en)
GRAIN REFINED TIN BRASS

Title (de)
KORNGEFEINTE ZINN-MESSING

Title (fr)
LAITON A L'ETAIN A GRAIN AFFINE

Publication
EP 1009866 A4 20020206 (EN)

Application
EP 98912110 A 19980330

Priority

- US 9806157 W 19980330
- US 84447897 A 19970418
- US 88593097 A 19970630

Abstract (en)
[origin: WO9848068A1] There is provided a tin brass alloy having a grain structure that is refined by the addition of controlled amounts of both zinc and iron. Other metallic elements that undergo peritectic decomposition in a tin brass alloy, such as cobalt, iridium, niobium, vanadium and molybdenum may substitute for from a portion to all of the iron. Direct chill cast alloys containing from 1 % to 4 %, by weight of tin, from 0.8 % to 4 % of iron, from an amount effective to enhance iron initiated grain refinement to 20 % of zinc and the remainder copper and inevitable impurities are readily hot worked. The zinc addition further increases the strength of the alloy and improves the bend formability in the "good way", perpendicular to the longitudinal axis of a rolled strip.

IPC 1-7
C22C 9/02

IPC 8 full level
C22C 9/04 (2006.01)

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

Citation (search report)

- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 01 28 February 1995 (1995-02-28)
- See references of WO 9848068A1

Designated contracting state (EPC)
CH DE FR GB IT LI SE

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