

Title (en)

Process including annealing for producing water-bearing copper cast parts with lowered tendency of migration

Title (de)

Verfahren zur Herstellung von wasserführenden Kupfer-Gussteilen mit durch Glühen verringerter Migrationsneigung

Title (fr)

Procédé de fabrication de pièces coulées en cuivre, dont la tendance de migration est réduite par recuit

Publication

EP 1749897 A1 20070207 (DE)

Application

EP 05016381 A 20050728

Priority

EP 05016381 A 20050728

Abstract (en)

Preparation of water-bearing casting (armatures or fittings) comprises pouring an alloy containing at least 80 wt.% of copper containing copper-tin, copper-tin-zinc or copper-silicium-zinc in a water direction with diminished migration affinity, annealing the extracted casting at 400-800[deg]C for at least 0.5 standard, and slowly cooling the heat-treated component at 10-100 K/std. An independent claim is included for water bearing component for a drinking water installation, which is obtained by pouring copper-tin-, copper-tin-zinc-or copper-silicon-zinc- alloy, and subsequently annealing the mixture, where the migration of the metal ion fulfills after 4 weeks in a migration test of 52 weeks shows that the migration of: copper is less than 1000 mu g/l, nickel is less than 10 mu g/l and lead is 5 ~mg/l.

IPC 8 full level

C22F 1/08 (2006.01); **C22C 9/02** (2006.01); **C22C 9/04** (2006.01)

CPC (source: EP)

C22C 9/02 (2013.01); **C22C 9/04** (2013.01); **C22F 1/08** (2013.01)

Citation (applicant)

- GB 1443090 A 19760721 - ANACONDA CO
- EP 1045041 A1 20001018 - SAMBO COPPER ALLOY CO LTD [JP]
- GB 1385411 A 19750226 - TOYO VALVE CO LTD

Citation (search report)

- [X] EP 0947592 B
- [X] GB 1443090 A 19760721 - ANACONDA CO

Cited by

EP1980633A1; EP2014964A1; CN114459850A; DE202007019373U1

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 LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1749897 A1 20070207; EP 1749897 B1 20071017; AT E376076 T1 20071115; DE 502005001747 D1 20071129; EP 1818423 A2 20070815; EP 1818423 A3 20070822; ES 2294604 T3 20080401

DOCDB simple family (application)

EP 05016381 A 20050728; AT 05016381 T 20050728; DE 502005001747 T 20050728; EP 07008709 A 20050728; ES 05016381 T 20050728